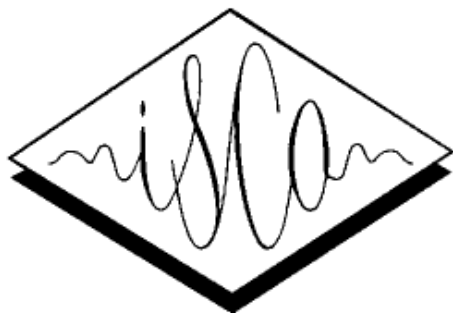


ISCA Archive



<http://www.isca-speech.org/archive>

INTERSPEECH 2013
14th Annual
Conference of the
International
Speech
Communication
Association



Lyon, France
August 25-29, 2013

[Bibliographic Reference](#) [Introduction to the Conference](#)
[Author Index](#) [Table of Contents](#)

Bibliographic Reference

[INTERSPEECH-2013] *INTERSPEECH 2013*, 14th Annual Conference of the International Speech Communication Association, Lyon, France, August 25-29, 2013, ed. by F. Bimbot, C. Cerisara, C. Fougeron, G. Gravier, L. Lamel, F. Pellegrino, and P. Perrier, ISSN 2308-457X; ISCA Archive, http://www.isca-speech.org/archive/interspeech_2013

Introduction to the Conference

[Introduction](#) [Keynotes](#) [Special sessions](#) [Tutorials](#)

Author Index and Quick Access to Abstracts

Names written in **boldface** refer to first authors, in CAPITAL letters to keynote and invited papers. Full papers can be accessed from the abstracts (ISCA members only). *Please note that each abstract opens in a separate window.*

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

-- A --

[Aalto](#) [Abad \(20\)](#) [Abad \(2494\)](#) [Abbas](#) [Abdel-Hamid \(1248\)](#) [Abdel-Hamid \(1849\)](#)
[Abdel-Hamid \(3366\)](#) [Abdelaziz](#) [Abrash](#) [Abrol](#) [Acher](#) [Adda-Decker \(305\)](#) [Adda-Decker \(412\)](#)
[Adda-Decker \(773\)](#) [Adda-Decker \(4101\)](#) [Addanki](#) [Adiga](#) [Afify](#) [Ahmadi, Farzaneh](#)
[Ahmadi, Mousa](#) [Ahmed](#) [Aihara](#) [Airaksinen \(143\)](#) [Airaksinen \(1544\)](#) [Akagi](#) [Akamine \(2336\)](#)
[Akamine \(2667\)](#) [Akbacak](#) [Åkesson \(282\)](#) [Åkesson \(778\)](#) [Akiba](#) [Akram](#) [Al Moubayed](#)
[Alam, Firoj](#) [Alam, Md. Jahangir \(891\)](#) [Alam, Md. Jahangir \(2420\)](#) [Alam, Md. Jahangir \(3122\)](#)
[Alegre](#) [Alghowinem](#) [Alkhouli](#) [Alku \(49\)](#) [Alku \(143\)](#) [Alku \(1062\)](#) [Alku \(1179\)](#) [Alku \(1544\)](#)
[Alku \(1931\)](#) [Alku \(2489\)](#) [Alku \(2881\)](#) [Alku \(3439\)](#) [Alku \(3562\)](#) [Allauzen, Alexandre](#)
[Allauzen, Cyril \(666\)](#) [Allauzen, Cyril \(675\)](#) [Alm \(2549\)](#) [Alm \(3722\)](#) [Altatf](#) [Altrov](#) [Alumäe \(1801\)](#)

[Alumäe \(2182\)](#) [Alwan, Abeer \(709\)](#) [Alwan, Abeer \(2001\)](#) [Alwan, Abeer \(3216\)](#)
[Alwan, Abeer \(3284\)](#) [Alwan, Joe](#) [Aman](#) [Amano](#) [Ambikairajah \(205\)](#) [Ambikairajah \(1986\)](#)
[Amehraye](#) [An](#) [Ananthakrishnan](#) [Anderson, Michael](#) [Anderson, Robert](#) [Andrade-Miranda](#)
[André](#) [André-Obrecht](#) [Andreeva](#) [Angkititrakul](#) [Anguera](#) [Aniol](#) [Antolík](#) [Anumanchipalli](#)
[Arai \(2019\)](#) [Arai \(2445\)](#) [Arai \(3152\)](#) [Archer](#) [Arias](#) [Ariki \(369\)](#) [Ariki \(3637\)](#) [Ariki \(3747\)](#) [Arimoto](#)
[Arnold \(272\)](#) [Arnold \(1302\)](#) [Aronowitz \(945\)](#) [Aronowitz \(2470\)](#) [Arrabothu](#) [Arya](#) [Aryal](#)
[van As-Brooks](#) [Asami](#) [Asano](#) [Asgari \(191\)](#) [Asgari \(1936\)](#) [Ashby](#) [Astrinaki](#) [Athanasopoulos](#)
[Atkins](#) [Attabi](#) [Attye](#) [Aubanel](#) [Audhkhasi \(173\)](#) [Audhkhasi \(3082\)](#) [Audibert \(1389\)](#)
[Audibert \(3547\)](#) [Audkhasi](#) [Avelino](#) [Ayadi](#) [Azarov \(1032\)](#) [Azarov \(1697\)](#) [Azarov \(2662\)](#)

-- B --

[Baayen \(272\)](#) [Baayen \(1302\)](#) [Babacan](#) [Babel](#) [Bacchiani](#) [Bach](#) [Badin \(1321\)](#) [Badin \(2753\)](#)
[Badino](#) [Bäckström](#) [Baghai-Ravary](#) [Bagou](#) [Bai](#) [Bailly \(1653\)](#) [Bailly \(2753\)](#) [Balasubramanyan](#)
[Balbo](#) [Balčiūnienė](#) [Bangalore \(1861\)](#) [Bangalore \(3468\)](#) [Bao, Chang-chun \(3234\)](#)
[Bao, Chang-chun \(3444\)](#) [Bao, Feng](#) [Barbier](#) [Barbieri](#) [Barbosa, Plínio A. \(282\)](#)
[Barbosa, Plínio A. \(778\)](#) [Barbosa, Plínio A. \(3027\)](#) [Barbosa, Sílvia](#) [Barkan \(1692\)](#) [Barkan \(2470\)](#)
[Barker](#) [Barnard \(1027\)](#) [Barnard \(1831\)](#) [Barras \(128\)](#) [Barras \(2450\)](#) [Barras \(2484\)](#) [Barry](#)
[Bartkova](#) [Basson](#) [Bates](#) [Batista](#) [Batliner](#) [Bauer](#) [Baumeister](#) [Bayer \(1111\)](#) [Bayer \(2688\)](#)
[Bayestehtashk](#) [Beare](#) [Beaufays](#) [Beck](#) [Beckman](#) [Bedoin \(906\)](#) [Bedoin \(1370\)](#) [Behlau](#)
[Behravan](#) [Beke](#) [Bell \(1525\)](#) [Bell \(3087\)](#) [Bell \(3642\)](#) [Bellegarda](#) [Bellier](#) [Ben-Youssef \(2758\)](#)
[Ben-Youssef \(2763\)](#) [Benedetto](#) [Benedí](#) [Bengio](#) [Benoist-lucy](#) [Beran](#) [Berkling](#) [Bernardini](#)
[Berry](#) [Berthommier](#) [Besacier](#) [Beskow](#) [Bessière](#) [Best \(2108\)](#) [Best \(2128\)](#) [Bettega](#) [Bigot \(1584\)](#)
[Bigot \(2539\)](#) [Bikel](#) [Bilmes](#) [Bimbot](#) [Birkholz \(349\)](#) [Birkholz \(997\)](#) [Bisani](#) [Bissiri](#) [Biswas](#)
[Black, Alan W. \(397\)](#) [Black, Alan W. \(402\)](#) [Black, Matthew P.](#) [Blokland](#) [Bocchieri](#) [Bocklet](#) [Bojja](#)
[Bollepalli](#) [Bonastre \(1986\)](#) [Bonastre \(2768\)](#) [Bone \(182\)](#) [Bone \(2400\)](#) [Bone \(2425\)](#) [Bonifazi](#)
[Bonin](#) [Bordel \(20\)](#) [Bordel \(64\)](#) [Bordel \(1497\)](#) [Bordel \(2504\)](#) [Bořil \(1609\)](#) [Bořil \(1986\)](#)
[Bořil \(2405\)](#) [ten Bosch \(680\)](#) [ten Bosch \(1854\)](#) [ten Bosch \(2287\)](#) [ten Bosch \(2822\)](#)
[ten Bosch \(3201\)](#) [ten Bosch \(3352\)](#) [ten Bosch \(3608\)](#) [ten Bosch \(3613\)](#) [Bost](#) [Bottari](#)
[Boula de Mareuil](#) [Boulenger](#) [Boulianne](#) [Boullard](#) [Bousquet](#) [Boves \(2639\)](#) [Boves \(2822\)](#)
[Boves \(3352\)](#) [Boyce](#) [Brackhane](#) [Braga](#) [Braithwaite](#) [Brakel](#) [Bramsen](#) [Brandmeyer](#)
[Braude \(2758\)](#) [Braude \(2763\)](#) [Braun, Angelika](#) [Braun, Bettina \(263\)](#) [Braun, Bettina \(921\)](#)
[Braunschweiler \(1042\)](#) [Braunschweiler \(2667\)](#) [Breakspear \(857\)](#) [Breakspear \(2534\)](#) [Bredin](#)
[van den Brekel](#) [Brix](#) [Brizan](#) [Brockett](#) [van den Broeck](#) [Brognaux](#) [Brouckxon](#) [Brümmer \(1497\)](#)
[Brümmer \(1619\)](#) [Brümmer \(1624\)](#) [Brümmer \(1976\)](#) [Bruggeman](#) [Brugnara \(759\)](#) [Brugnara \(3308\)](#)
[Brunellière](#) [Brutti](#) [Bunnell \(397\)](#) [Bunnell \(1712\)](#) [Burger](#) [Burget \(74\)](#) [Burget \(1228\)](#)
[Burget \(2345\)](#) [Burgos](#) [Burkhardt \(1866\)](#) [Burkhardt \(2059\)](#) [Burlick](#) [Burnham](#) [Busa-Fekete](#)
[Busso](#) [Butcher](#) [Butko](#) [Butler](#) [Byrd \(577\)](#) [Byrd \(968\)](#) [Byrd \(973\)](#)

-- C --

[Cabral](#) [Caclin](#) [Caelen-Haumont](#) [Cai](#) [Calabrese](#) [Calvelli \(2549\)](#) [Calvelli \(3722\)](#) [Campbell](#)
[Campion](#) [Can](#) [Candea](#) [Candeias](#) [Canevari](#) [Carey](#) [Carignan](#) [Carletta](#) [Carlot](#) [Carnevale](#)
[Carré](#) [Castan](#) [Castellanos-Domínguez](#) [Castelli](#) [Catalán](#) [Catanese](#) [Celikyilmaz \(2569\)](#)
[Celikyilmaz \(3780\)](#) [Cerisara](#) [Cernak](#) [Černocký \(74\)](#) [Černocký \(109\)](#) [Černocký \(1228\)](#)
[Černocký \(2589\)](#) [Černocký \(3122\)](#) [Chahuara](#) [Chakraborty](#) [Champagne-Lavau \(783\)](#)
[Champagne-Lavau \(3537\)](#) [Chan](#) [Chandrashekara](#) [Chang, Harry M.](#) [Chang, Joon-Hyuk](#)
[Chang, Shuangyu](#) [Chang, Shuo-Yiin](#) [Chang, Ying-Lan](#) [Chang, Yun-Fan](#) [Charfuelan](#) [Charlet](#)
[Chaspari \(182\)](#) [Chaspari \(718\)](#) [Chaspari \(2400\)](#) [Chaspari \(2430\)](#) [Chaudhury](#) [Cheah](#)
[Chen, Berlin \(2683\)](#) [Chen, Berlin \(2958\)](#) [Chen, Berlin \(2997\)](#) [Chen, Fei \(1184\)](#) [Chen, Fei \(2099\)](#)
[Chen, Gang \(2001\)](#) [Chen, Gang \(3216\)](#) [Chen, I-Fan \(1574\)](#) [Chen, I-Fan \(2544\)](#)
[Chen, Jian-Hueng](#) [Chen, John \(1861\)](#) [Chen, John \(3468\)](#) [Chen, Kuan-Yu](#)
[Chen, Langzhou \(1042\)](#) [Chen, Langzhou \(2667\)](#) [Chen, Ling-Hui](#) [Chen, Magnetro](#)
[Chen, Nancy F.](#) [Chen, Sin-Horng \(1786\)](#) [Chen, Sin-Horng \(3062\)](#) [Chen, Wei](#) [Chen, Xi](#)
[Chen, Xin](#) [Chen, Yi-Cheng](#) [Chen, Yi-Wen](#) [Chen, Yun-Nung](#) [Cheng, Jian](#)

[Cheng, You-Chi \(2282\)](#) [Cheng, You-Chi \(3708\)](#) [Chengalvarayan](#) [Chennupati](#) [Cheong](#) [Chetouani](#)
[Cheung, Anthea](#) [Cheung, Kyla](#) [Chi \(2920\)](#) [Chi \(3269\)](#) [Chiang](#) [Chien](#) [Chiu](#) [Chládková](#)
[Chng \(500\)](#) [Chng \(876\)](#) [Chng \(950\)](#) [Chng \(3057\)](#) [Cho, Eunah](#) [Cho, Eunjoon](#) [Chotimongkol](#)
[Chowdhury](#) [Christensen \(1159\)](#) [Christensen \(2133\)](#) [Christensen \(3642\)](#) [Chuang](#) [Chung](#)
[Cipolla](#) [Clancy](#) [Clapham](#) [Clark \(2331\)](#) [Clark \(2654\)](#) [Claus](#) [Clements \(1399\)](#) [Clements \(3221\)](#)
[CLERC](#) [Coene \(1854\)](#) [Coene \(3608\)](#) [Coene \(3613\)](#) [Coleman](#) [Colibro](#) [Collobert](#) [Conkie](#)
[Cooke, Martin \(2807\)](#) [Cooke, Martin \(3552\)](#) [Cooke, Martin \(3592\)](#) [Cooke, Neil](#) [Correia](#)
[Cosentino](#) [Côté, Dominique](#) [Côté, Nicolas](#) [Coupé \(3022\)](#) [Coupé \(3032\)](#) [Cowley](#) [Cox](#) [Cox](#)
[Cranen](#) [Cristoforetti](#) [Cruz](#) [Csala](#) [Cucchiarini \(982\)](#) [Cucchiarini \(2385\)](#) [Cui \(3012\)](#) [Cui \(3517\)](#)
[Cumani \(74\)](#) [Cumani \(1599\)](#) [Cumani \(1996\)](#) [Cummins](#) [Cunha](#) [Cutler](#) [Cutugno \(1414\)](#)
[Cutugno \(3727\)](#)

-- D --

[D'Alessandro, Christophe](#) [d'Alessandro, Nicolas \(1702\)](#) [d'Alessandro, Nicolas \(1877\)](#) [d'Apolito](#)
[D'hoore](#) [D'Imperio](#) [Daelemans](#) [Dai van Dalen](#) [Dalton](#) [Damnati](#) [Dang \(568\)](#) [Dang \(3187\)](#)
[Daubigny](#) [Davel \(1831\)](#) [Davel \(1956\)](#) [Davis \(544\)](#) [Davis \(1639\)](#) [Dean \(2465\)](#) [Dean \(3674\)](#)
[Dehak \(2514\)](#) [Dehak \(2773\)](#) [Dekerle](#) [DELABORDE](#) [Delcroix \(2992\)](#) [Delcroix \(3502\)](#) [Delvaux](#)
[DeMarco](#) [Demirdjian](#) [Demiroglu](#) [Demolin](#) [Demuyndck](#) [Deng, Feng](#) [Deng, Jun](#) [Deng, Li \(1849\)](#)
[Deng, Li \(3366\)](#) [Deng, Li \(3771\)](#) [Deng, Yan](#) [Deng, Yunbin](#) [Deoras \(2579\)](#) [Deoras \(2713\)](#)
[Derboven](#) [Derrick](#) [Devillers \(773\)](#) [Devillers \(4101\)](#) [Diard](#) [Dias](#) [Dietzel](#) [Diez \(64\)](#) [Diez \(1497\)](#)
[Diez \(2504\)](#) [Diez \(2509\)](#) [Dijkstra](#) [Dikici](#) [Dimitriadis \(685\)](#) [Dimitriadis \(2876\)](#) [Dimitriadis \(3017\)](#)
[Ding, Duo](#) [Ding, Hongwei](#) [Do, Cong-Thanh](#) [Do, Van Hai \(500\)](#) [Do, Van Hai \(2529\)](#) [Doclo](#)
[Doddingon \(1971\)](#) [Doddingon \(1976\)](#) [Doetsch](#) [Dognin](#) [Dohsaka](#) [Doi \(1057\)](#) [Doi \(1067\)](#) [Dolan](#)
[Dominey](#) [Donnadieu](#) [Doval](#) [Draxler \(1535\)](#) [Draxler \(2793\)](#) [Drozdova](#) [Drugman \(1554\)](#)
[Drugman \(1702\)](#) [Drugman \(2316\)](#) [Dufour, Richard \(1584\)](#) [Dufour, Richard \(2539\)](#) [Dufour, Sophie](#)
[Dumouchel \(2420\)](#) [Dumouchel \(2773\)](#) [Dumouchel \(3684\)](#) [Dumoulin](#) [Dunsin](#) [Dupoux](#) [Dupuy](#)
[Dutoit \(1702\)](#) [Dutoit \(1877\)](#) [Duy](#)

-- E --

[Edlund \(1126\)](#) [Edlund \(2584\)](#) [Edmunds](#) [Egger](#) [Ehrenbrink](#) [El-Beze \(1394\)](#) [El-Beze \(3756\)](#)
[Elisei](#) [Ell](#) [Ellis](#) [Émond](#) [Enomoto](#) [Epps \(205\)](#) [Epps \(857\)](#) [Epps \(1986\)](#) [Epps \(2534\)](#)
[Erdogan \(808\)](#) [Erdogan \(3279\)](#) [Erickson](#) [Eriksson \(282\)](#) [Eriksson \(778\)](#) [Erjavac](#) [Ernestus](#)
[Erro](#) [Ertaş](#) [Erzin](#) [Escudero](#) [Evanini](#) [Evans \(690\)](#) [Evans \(925\)](#) [Evans \(940\)](#) [Eyben \(148\)](#)
[Eyben \(690\)](#) [Eyben \(1668\)](#) [Eyben \(2044\)](#)

-- F --

[Fadiga \(1287\)](#) [Fadiga \(1297\)](#) [Falk](#) [Fang, Qiang](#) [Fang, Xiao](#) [Farrell](#) [Faubel](#) [Fauve \(1609\)](#)
[Fauve \(1986\)](#) [Fauve \(2768\)](#) [Favre](#) [Feiser](#) [Fejlová](#) [Felps](#) [Ferragne \(906\)](#) [Ferragne \(1370\)](#)
[Ferragne \(1864\)](#) [Ferreira](#) [Ferreiro \(1164\)](#) [Ferreiro \(3617\)](#) [Ferreiros](#) [Ferrer \(15\)](#) [Ferrer \(709\)](#)
[Ferrer \(1507\)](#) [Ferrer \(1981\)](#) [Fingscheidt](#) [Finzi](#) [Fiore](#) [Fivela \(592\)](#) [Fivela \(1316\)](#) [Flavier \(1864\)](#)
[Flavier \(2670\)](#) [Flavier \(3022\)](#) [Fohr \(652\)](#) [Fohr \(2232\)](#) [Fosler-Lussier \(1858\)](#) [Fosler-Lussier \(1961\)](#)
[Fougeron](#) [Fowler](#) [Fox, Charles](#) [Fox, Robert Allen \(123\)](#) [Fox, Robert Allen \(1263\)](#)
[Fox, Robert Allen \(2081\)](#) [Fraga-Silva \(3102\)](#) [Fraga-Silva \(3347\)](#) [Franco \(15\)](#) [Franco \(709\)](#)
[Franco \(886\)](#) [Franco \(3703\)](#) [FRANCOPOULO](#) [Fraser](#) [Frauenfelder \(2118\)](#) [Frauenfelder \(2123\)](#)
[Frauenfelder \(2817\)](#) [Fredouille \(1584\)](#) [Fredouille \(2539\)](#) [Fredouille \(2778\)](#) [Fressard](#) [Frid](#)
[Friedland](#) [Frota \(267\)](#) [Frota \(300\)](#) [Fu \(612\)](#) [Fu \(3042\)](#) [Fuchs](#) [Fügen \(1087\)](#) [Fügen \(3473\)](#)
[Fuhs](#) [Fujimoto, Ichiro](#) [Fujimoto, Masakiyo](#) [Fujimoto, Masako](#) [Fujimura](#) [FUJISAKI](#)
[Fujita, Tomoki](#) [Fujita, Yuya](#) [Fumo](#) [Fung \(2350\)](#) [Fung \(2599\)](#) [Fuselli](#)

-- G --

[Gabbouj \(373\)](#) [Gabbouj \(388\)](#) [Gadde](#) [Gagnon](#) [Galbally](#) [Gales \(1233\)](#) [Gales \(2187\)](#)
[Gales \(2336\)](#) [Gales \(2667\)](#) [Gales \(3303\)](#) [Gales \(3424\)](#) [Galibert](#) [Gallardo-Antolín](#)

[Ganapathy \(1502\)](#) [Ganapathy \(3497\)](#) [Ganapathy \(3689\)](#) [Gangamohan Gao Garcia-Romero](#)
[Garellek Garner \(510\)](#) [Garner \(3449\)](#) [Garrapa Garretón Gasquet-Cyrus Gatignol Gautreau](#)
[Gauvain \(3102\)](#) [Gauvain \(3347\)](#) [Gay Gaydina Gehring Geiger \(690\)](#) [Geiger \(1668\)](#) [Geist](#)
[Gelin Gemmeke Geng George Georges Georgetown Georgiladakis Georgiou \(872\)](#)
[Georgiou \(1092\)](#) [Georgiou \(2861\)](#) [Georgiou \(3082\)](#) [Georgiou \(3483\)](#) [Germain Gerratt Ghigi](#)
[Ghio Ghosh, A. Ghosh, Prasanta Kumar \(718\)](#) [Ghosh, Prasanta Kumar \(1614\)](#)
[Ghosh, Prasanta Kumar \(3177\)](#) [Ghosh, Sucheta Ghoshal \(2345\)](#) [Ghoshal \(3492\)](#) [Gibert](#)
[Gibson \(182\)](#) [Gibson \(872\)](#) [Gilbert Gilkerson Gillet-Perret Gilmartin Giovanni GIRAUD](#)
[Giuliani Giurgiu Glass Glembek Gobl \(29\)](#) [Gobl \(1658\)](#) [Gobl \(2316\)](#) [Gobl \(3527\)](#) [Godfrey](#)
[Godin Godino-Llorente \(1144\)](#) [Godino-Llorente \(1707\)](#) [Godoy \(133\)](#) [Godoy \(1169\)](#)
[Godoy \(3572\)](#) [Goecke \(857\)](#) [Goecke \(2534\)](#) [Goecke \(3117\)](#) [Goel \(3012\)](#) [Goel \(3294\)](#)
[Goel \(3517\)](#) [Goldstein \(577\)](#) [Goldstein \(968\)](#) [Goldstein \(2006\)](#) [Goldstein \(2010\)](#) [Golik \(1756\)](#)
[Golik \(3107\)](#) [Gomez-Barrero Gómez-García Gong \(2360\)](#) [Gong \(2365\)](#) [Gonzalez-](#)
[Dominguez \(935\)](#) [Gonzalez-Dominguez \(2465\)](#) [Gonzalez-Dominguez \(3674\)](#) [González-Morcillo](#)
[Gonzalez-Rodriguez \(935\)](#) [Gonzalez-Rodriguez \(2465\)](#) [Gonzalez-Rodriguez \(3674\)](#) [Gordon](#)
[Gossart \(773\)](#) [Gossart \(4101\)](#) [Gosztolya Goto \(1057\)](#) [Goto \(1067\)](#) [Goudbeek Gouvêa](#)
[Govaerts \(1854\)](#) [Govaerts \(3608\)](#) [Govaerts \(3613\)](#) [Govind Gowda \(49\)](#) [Gowda \(3206\)](#)
[Graciarena \(15\)](#) [Graciarena \(709\)](#) [Graciarena \(886\)](#) [Graciarena \(1507\)](#) [Graciarena \(1981\)](#)
[Graciarena \(3698\)](#) [Graciarena \(3703\)](#) [Graham Grais \(808\)](#) [Grais \(3279\)](#) [Granjon Gratch \(847\)](#)
[Gratch \(1458\)](#) [Gravier Green, Jordan R. Green, Phil D. \(1140\)](#) [Green, Phil D. \(1159\)](#)
[Green, Phil D. \(2133\)](#) [Green, Phil D. \(3642\)](#) [Greenberg Gregory Gren Grenez \(2257\)](#)
[Grenex \(3632\)](#) [Grèzes Grézl Grimaldi \(916\)](#) [Grimaldi \(1316\)](#) [Grimaldi \(2091\)](#) [Grimaldi \(2272\)](#)
[Grohe Grootswagers Gruenstein Gubian Guillemain \(460\)](#) [Guillemain \(3289\)](#) [Guiraud](#)
[Gupta, Rahul Gupta, Vishwa Gussenhoven Gustafson Gustafsson Gutierrez-Osuna](#)

-- H --

[Haake \(2549\)](#) [Haake \(3722\)](#) [Hämäläinen Hahn, Sangyun Hahn, Stefan \(495\)](#)
[Hahn, Stefan \(2326\)](#) [Haidar Hain, Horst-Udo Hain, Thomas \(1116\)](#) [Hain, Thomas \(1159\)](#)
[Hain, Thomas \(1238\)](#) [Hain, Thomas \(3642\)](#) [Hakkani-Tür \(1594\)](#) [Hakkani-Tür \(2569\)](#)
[Hakkani-Tür \(2579\)](#) [Hakkani-Tür \(3780\)](#) [Hall Hallé \(2123\)](#) [Hallé \(3157\)](#) [Hammer \(1854\)](#)
[Hammer \(3613\)](#) [Han, Chong Han, Kyu J. Han, Wenjing Hanazawa Haniłçi \(1986\)](#)
[Haniłçi \(2489\)](#) [Haniłçi \(2881\)](#) [Hannemann Hansen \(709\)](#) [Hansen \(1135\)](#) [Hansen \(1609\)](#)
[Hansen \(1986\)](#) [Hansen \(2405\)](#) [Hansen \(2910\)](#) [Hansen \(3127\)](#) [Hansen \(3656\)](#) [Hao Harikumar](#)
[Harmegnies Harrat Harrington \(325\)](#) [Harrington \(1002\)](#) [Hart Harte \(1188\)](#) [Harte \(1624\)](#)
[Harte \(2846\)](#) [Harte \(2900\)](#) [Hasan \(1609\)](#) [Hasan \(1986\)](#) [Hasan \(3127\)](#) [Hashimoto \(1875\)](#)
[Hashimoto \(2554\)](#) [Hatano \(955\)](#) [Hatano \(2564\)](#) [Hatmi Hautamäki, Rosa González \(930\)](#)
[Hautamäki, Rosa González \(1986\)](#) [Hautamäki, Rosa González \(2519\)](#) [Hautamäki, Ville \(79\)](#)
[Hautamäki, Ville \(930\)](#) [Hautamäki, Ville \(1609\)](#) [Hautamäki, Ville \(1986\)](#) [Hautamäki, Ville \(2282\)](#)
[Hautamäki, Ville \(2519\)](#) [Hautamäki, Ville \(3694\)](#) [Hautamäki, Ville \(3708\)](#) [Hayashi Hazan He](#)
[Heaton Heck \(1594\)](#) [Heck \(3780\)](#) [Heckmann Heeman van Heerden Hegde \(1682\)](#)
[Hegde \(2987\)](#) [Heidel Helander Helfer Hélie Henrich Herlinghaus Hermann Hermansky \(69\)](#)
[Hermansky \(1253\)](#) [Hermansky \(1781\)](#) [Hermansky \(2978\)](#) [Hermansky \(3332\)](#) [Hermansky \(3689\)](#)
[HERMANSKY \(Keynote\)](#) [Herment Hernaez Hernandez-Cordero Heute van Heuven Hézard](#)
[Hieronimus Hifny Higashinaka \(1097\)](#) [Higashinaka \(2866\)](#) [Higuchi Hilgers Hinaut Hines](#)
[Hinterleitner Hinton Hirano \(1875\)](#) [Hirano \(2554\)](#) [Hirayama Hirose \(1037\)](#) [Hirose \(1821\)](#)
[Hirose \(1875\)](#) [Hirose \(2554\)](#) [Hirose \(2915\)](#) [Hirose \(3453\)](#) [Hirsch, Fabrice Hirsch, Hans-Günter](#)
[Hirst Hjalmarsson \(1901\)](#) [Hjalmarsson \(2584\)](#) [Hoedemaker Hoen \(2077\)](#) [Hoen \(3167\)](#) [Hofe](#)
[Hoffmann, Rüdiger \(558\)](#) [Hoffmann, Rüdiger \(1007\)](#) [Hoffmann, Rüdiger \(2410\)](#)
[Hoffmann, Sarah \(1520\)](#) [Hoffmann, Sarah \(1951\)](#) [Honda, Kiyoshi Honda, Masaaki](#)
[Hong, Doo Hwa Hong, Mingyi Hoole Hori, Chiori \(436\)](#) [Hori, Chiori \(1052\)](#) [Hori, Chiori \(3087\)](#)
[Hori, Chiori \(3259\)](#) [Hori, Chiori \(3322\)](#) [Hori, Takaaki \(647\)](#) [Hori, Takaaki \(1223\)](#) [Horiuchi Horwitz](#)
[Hotz Hou House van Hout, Julien van Hout, Roeland Hovy, Dirk Hovy, Eduard](#)
[Hsieh, Fang-Ying Hsieh, Hsin-Ju Hsieh, Po-jen Hsu, Chun-Shan Hsu, Chung-Chien \(2920\)](#)
[Hsu, Chung-Chien \(3269\)](#) [Hu, Ting-yao Hu, Wenping Huang, Bojun Huang, H. Huang, Jui-Ting](#)
[Huang, Yan Huang, Zhen Huckvale \(392\)](#) [Huckvale \(582\)](#) [Hueber \(752\)](#) [Hueber \(2753\)](#)

[Huenupán](#) [Huet](#) [Hung](#) [Huo](#) [Hurtado](#) [Huyghe](#) [Hwang, Hsin-Te](#) [Hwang, Mei-Yuh \(1203\)](#)
[Hwang, Mei-Yuh \(2524\)](#)

-- I --

[Iida III](#) [Imai](#) [Imel](#) [Imoto](#) [Imseng](#) [Iosif](#) [Iribe](#) [Iriño \(34\)](#) [Iriño \(2905\)](#) [Ishi](#) [Ishigame](#)
[Ishihara \(1017\)](#) [Ishihara \(1826\)](#) [Ishii](#) [Ishikawa](#) [Ishimoto](#) [Iskarous](#) [Isotani](#) [Isozaki](#) [Istrate](#) [Itoh](#)
[Itoyama](#)

-- J --

[Jabaian](#) [Jacewicz \(123\)](#) [Jacewicz \(2081\)](#) [Jacquin](#) [Jaitly](#) [Jalalvand](#) [Jančovič](#) [Jang](#) [Janicki](#)
[Janin \(709\)](#) [Janin \(737\)](#) [Jannet](#) [Janse](#) [Jansen \(1253\)](#) [Jansen \(1781\)](#) [Jansen \(2594\)](#)
[Jensen, Jesper \(1174\)](#) [Jensen, Jesper \(3582\)](#) [Jensen, Søren Holdt](#) [Jeon](#) [Jia](#) [Jiang \(1248\)](#)
[Jiang \(1849\)](#) [Jin](#) [Jing](#) [Jitsuhiro](#) [Jokinen](#) [Jonker](#) [Joshi](#) [Joubert](#) [Jouvet \(652\)](#) [Jouvet \(1154\)](#)
[Juang](#) [Jung](#) [Justo](#) [Jyothi](#)

-- K --

[Kacha](#) [Kachkovskaia](#) [Kadiri](#) [Kaewtip](#) [Kagomiya](#) [Kai](#) [Kalinli](#) [Kalvik](#) [Kam](#) [Kameoka \(1017\)](#)
[Kameoka \(1826\)](#) [Kanagasundaram \(2465\)](#) [Kanagasundaram \(3674\)](#) [Kanai](#) [Kanda](#) [Kane \(29\)](#)
[Kane \(1658\)](#) [Kane \(2316\)](#) [Kane \(3527\)](#) [Kanehara](#) [Kanemoto](#) [Kang, Hong-Goo](#) [Kang, Shiyin](#)
[Kang, Yongguo](#) [Kano](#) [Kanthak](#) [Kao, Yu-Chen](#) [Kao, Yu-Cheng](#) [Karafiát \(1228\)](#) [Karafiát \(2589\)](#)
[Karanasou](#) [Karhila](#) [Karsmakers](#) [Kartushina \(2118\)](#) [Kartushina \(2123\)](#) [Karvitsky](#) [Kasess](#)
[Kashino](#) [Kasisopa](#) [Kathol](#) [Katsamanis](#) [Katsurada](#) [Kaushik](#) [Kawahara, Hideki \(34\)](#)
[Kawahara, Hideki \(1921\)](#) [Kawahara, Hideki \(2905\)](#) [Kawahara, Tatsuya](#) [Kazemian](#) [Kelaidi](#)
[Kellermann](#) [Kelly, David J.](#) [Kelly, Finnian \(1624\)](#) [Kelly, Finnian \(2846\)](#) [Kenny \(891\)](#)
[Kenny \(2420\)](#) [Kenny \(2773\)](#) [Kenny \(3122\)](#) [Kenny \(3684\)](#) [Kenyon](#) [Keutzer](#) [Khan](#)
[Khoury \(1477\)](#) [Khoury \(1986\)](#) [Kidawara](#) [Kilgour \(94\)](#) [Kilgour \(3473\)](#) [Kim, Han-Gyu](#) [Kim, Hoirin](#)
[Kim, Hong Kook](#) [Kim, Jangwon](#) [Kim, Jeesun \(544\)](#) [Kim, Jeesun \(1639\)](#) [Kim, Jonathan C. \(1399\)](#)
[Kim, Jonathan C. \(3221\)](#) [Kim, Myung Jong](#) [Kim, Nam Soo](#) [Kim, Samuel \(148\)](#)
[Kim, Samuel \(1092\)](#) [Kim, Samuel \(1409\)](#) [Kim, Seon Man](#) [King \(764\)](#) [King \(1525\)](#) [King \(1877\)](#)
[King \(2331\)](#) [King \(3567\)](#) [King \(3642\)](#) [Kingsbury \(3012\)](#) [Kingsbury \(3497\)](#) [Kinnunen \(79\)](#)
[Kinnunen \(925\)](#) [Kinnunen \(930\)](#) [Kinnunen \(950\)](#) [Kinnunen \(1609\)](#) [Kinnunen \(1986\)](#)
[Kinnunen \(2489\)](#) [Kinnunen \(2519\)](#) [Kinnunen \(2881\)](#) [Kinnunen \(3057\)](#) [Kinnunen \(3122\)](#)
[Kinnunen \(3694\)](#) [Kinoshita \(822\)](#) [Kinoshita \(3298\)](#) [Kinoshita \(3502\)](#) [Kinsman](#) [Kintzley](#)
[Kirchhoff \(187\)](#) [Kirchhoff \(1840\)](#) [Kisler](#) [Kiso](#) [Kiss](#) [Kitamura](#) [Kitaoka](#) [Klakow \(642\)](#)
[Klakow \(2943\)](#) [Klangpornkun](#) [Klasinas](#) [Kleber](#) [Kleijn \(3587\)](#) [Kleijn \(3597\)](#) [Kluge](#) [Knoblauch](#)
[Knox](#) [Knuuttila](#) [Kobashikawa](#) [Kobayashi, Akio](#) [Kobayashi, Kazuhiro](#) [Kobayashi, Kei](#)
[Kobayashi, Takao \(378\)](#) [Kobayashi, Takao \(1072\)](#) [Kobayashi, Takumi](#) [Kockmann](#) [Koenig](#) [Köster](#)
[Kohtz](#) [Kojima](#) [Kokaram](#) [Kokonozi](#) [Kolluru](#) [Kolossa](#) [Komiyama](#) [Kompatsiaris](#) [Koncki](#) [Kondo](#)
[Konno](#) [Kons \(945\)](#) [Kons \(1482\)](#) [Koo](#) [Kopparapu](#) [Koreman](#) [Koriyama \(378\)](#) [Koriyama \(1072\)](#)
[Kotov](#) [Kouklia](#) [Kouloumenta](#) [Kousidis \(803\)](#) [Kousidis \(2649\)](#) [Koutsogiannaki](#)
[Kowalczyk \(1854\)](#) [Kowalczyk \(3608\)](#) [Kowalczyk \(3613\)](#) [Krahmer](#) [Krainik](#) [Kral](#) [Krause](#)
[Kreiman \(2001\)](#) [Kreiman \(3216\)](#) [Kreuzer](#) [Krikke](#) [Kriyakien](#) [Krzonowski](#) [Kua](#) [Kubo, Keigo](#)
[Kubo, Yotaro \(647\)](#) [Kubo, Yotaro \(2992\)](#) [Kühnel](#) [Kumar](#) [Kun](#) [Kuo](#) [Kurimo \(49\)](#) [Kurimo \(2693\)](#)
[Kurimo \(3206\)](#) [Kurimo \(3562\)](#) [Kurniawati](#) [Kuroiwa](#)

-- L --

[Laboissière](#) [Laface \(1599\)](#) [Laface \(1996\)](#) [Laforest](#) [Lai](#) [Laine](#) [Lamalle \(1321\)](#) [Lamalle \(2252\)](#)
[Lambert](#) [Lamel \(412\)](#) [Lamel \(1966\)](#) [Lamel \(3102\)](#) [Lamel \(3347\)](#) [Lammert \(402\)](#) [Lammert \(577\)](#)
[Lammert \(959\)](#) [Lammert \(2010\)](#) [Lammert \(3230\)](#) [Lanchantin](#) [Lancia](#) [Lane](#) [Laprie \(2024\)](#)
[Laprie \(3196\)](#) [Larcher \(950\)](#) [Larcher \(1609\)](#) [Larcher \(1986\)](#) [Larcher \(2768\)](#) [Larcher \(3651\)](#)
[Larson \(632\)](#) [Larson \(1203\)](#) [Lassus-Sangosse](#) [Latorre](#) [Laukkanen](#) [Laurent](#) [Lavergne \(1966\)](#)
[Lavergne \(2326\)](#) [Lawitschka \(775\)](#) [Lawitschka \(4102\)](#) [Lawson \(84\)](#) [Lawson \(1507\)](#) [Le, Duc](#)

[Le, Viet Bac \(1462\)](#) [Le, Viet Bac \(2484\)](#) [Leclerc](#) [Lecouteux](#) [Lecumberri](#) [Lee, Adam](#) [Lee, Albert](#)
[Lee, Bong-Ki](#) [Lee, Byung-Suk](#) [Lee, Chi-Chun \(2400\)](#) [Lee, Chi-Chun \(2425\)](#) [Lee, Chin-Hui \(1574\)](#)
[Lee, Chin-Hui \(1786\)](#) [Lee, Chin-Hui \(2282\)](#) [Lee, Chin-Hui \(2544\)](#) [Lee, Chin-Hui \(3708\)](#)
[Lee, Hung-yi \(215\)](#) [Lee, Hung-yi \(1741\)](#) [Lee, Hung-yi \(2703\)](#) [Lee, Hung-yi \(2728\)](#) [Lee, JeeSok](#)
[Lee, Kong Aik \(950\)](#) [Lee, Kong Aik \(1609\)](#) [Lee, Kong Aik \(1986\)](#) [Lee, Kong Aik \(2768\)](#)
[Lee, Kong Aik \(3651\)](#) [Lee, Lin-shan \(490\)](#) [Lee, Lin-shan \(1741\)](#) [Lee, Lin-shan \(2703\)](#)
[Lee, Lin-shan \(2728\)](#) [Lee, Shi-wook](#) [Lee, Sungbok \(173\)](#) [Lee, Sungbok \(182\)](#)
[Lee, Sungbok \(2400\)](#) [Lee, SungJoo](#) [Lee, Tan](#) [Lee, Wonkyum](#) [Lee, YunKeun](#) [Lee, Yunsup](#)
[van Leeuwen \(1609\)](#) [van Leeuwen \(1619\)](#) [van Leeuwen \(1986\)](#) [Lefèvre](#) [Leff](#) [Legros](#)
[Lehnen \(495\)](#) [Lehnen \(2326\)](#) [Lei, Xin](#) [Lei, Yun \(15\)](#) [Lei, Yun \(84\)](#) [Lei, Yun \(709\)](#)
[Lei, Yun \(1507\)](#) [Lei, Yun \(1981\)](#) [Lei, Yun \(3698\)](#) [Leigh](#) [Leijon](#) [Leino](#) [de Leon](#) [Leonarduzzi](#)
[Leone](#) [Leung](#) [Levit](#) [Levitt](#) [Lévy](#) [Lewandowski](#) [Lezzoum](#) [Li, Aijun](#) [Li, Bo](#) [Li, Fangfang \(1283\)](#)
[Li, Fangfang \(2380\)](#) [Li, Feipeng \(69\)](#) [Li, Feipeng \(2978\)](#) [Li, Feipeng \(3332\)](#) [Li, Gang](#) [Li, Haifeng](#)
[Li, Haizhou \(205\)](#) [Li, Haizhou \(500\)](#) [Li, Haizhou \(876\)](#) [Li, Haizhou \(950\)](#) [Li, Haizhou \(1986\)](#)
[Li, Haizhou \(2297\)](#) [Li, Haizhou \(2370\)](#) [Li, Haizhou \(2768\)](#) [Li, Haizhou \(3057\)](#) [Li, Haizhou \(3651\)](#)
[Li, Jian](#) [Li, Jingjie](#) [Li, Jinjin \(775\)](#) [Li, Jinjin \(4102\)](#) [Li, Jinyu \(2365\)](#) [Li, Jinyu \(3317\)](#)
[Li, Junfeng \(1184\)](#) [Li, Junfeng \(2099\)](#) [Li, Kehuang](#) [Li, Kun](#) [Li, Ming \(182\)](#) [Li, Ming \(718\)](#)
[Li, Ming \(1502\)](#) [Li, Ming \(1614\)](#) [Li, Ta](#) [Li, Yang](#) [Li, Ying](#) [Li, Zhiyi \(59\)](#) [Li, Zhiyi \(2474\)](#)
[Liang, Shan](#) [Liang, Wei-Bin](#) [Liang, Zhi-Pei \(612\)](#) [Liang, Zhi-Pei \(3042\)](#) [Lieberman \(728\)](#)
[Lieberman \(2306\)](#) [Lickley](#) [Liénard](#) [Likhachov \(1032\)](#) [Likhachov \(2662\)](#) [Lim de Lima](#) [Limbu](#)
[Lin, Jen-Chun](#) [Lin, Tse-En](#) [Linarès \(1394\)](#) [Linarès \(1584\)](#) [Linarès \(2539\)](#) [Ling \(1012\)](#)
[Ling \(3052\)](#) [Lingenfelter](#) [Lison](#) [Liu, Chaojun](#) [Liu, Ding](#) [Liu, Gang \(1609\)](#) [Liu, Gang \(1986\)](#)
[Liu, Gang \(3017\)](#) [Liu, Jia \(59\)](#) [Liu, Jia \(1816\)](#) [Liu, Jia \(2474\)](#) [Liu, Shen](#) [Liu, Shilin \(1796\)](#)
[Liu, Shilin \(2963\)](#) [Liu, Weiwei \(59\)](#) [Liu, Weiwei \(2474\)](#) [Liu, Wenju](#) [Liu, X. \(2187\)](#) [Liu, X. \(3424\)](#)
[Liu, Xiaohu](#) [Liu, Xunying](#) [Liu, Yang \(2837\)](#) [Liu, Yang \(2886\)](#) [Liu, Yang \(3463\)](#) [Liu, Yulan](#)
[Liu, Yuzong \(187\)](#) [Liu, Yuzong \(1840\)](#) [Livescu](#) [Ljolje](#) [Lleida \(195\)](#) [Lleida \(2509\)](#) [Lleida \(3132\)](#)
[Lleida \(3679\)](#) [Löfqvist](#) [Løevenbruck](#) [Long](#) [van de Loo](#) [Loosvelt](#) [de Looze](#) [López](#) [López-](#)
[Ludeña \(1164\)](#) [López-Ludeña \(3617\)](#) [Lorenzo](#) [Lu, Liang](#) [Lu, Wenhuan](#) [Lu, Xugang \(436\)](#)
[Lu, Xugang \(3259\)](#) [Lucero](#) [Ludeña-Choez](#) [Lukeš](#) [Luo, Dean](#) [Luo, Zhi-Quan](#) [Lyu](#) [Lyubimov](#)

-- M --

[Ma, Bin \(1986\)](#) [Ma, Bin \(1991\)](#) [Ma, Bin \(2297\)](#) [Ma, Bin \(2370\)](#) [Ma, Bin \(3651\)](#) [Ma, Jeff](#) [Ma, Lin](#)
[Ma, Yuan](#) [Ma, Zhanyu](#) [Maas](#) [Mac](#) [MacAuslan](#) [Machač](#) [Maddieson \(2670\)](#) [Maddieson \(3022\)](#)
[Maeda \(2024\)](#) [Maeda \(3196\)](#) [Maekawa](#) [Magimai-Doss \(505\)](#) [Magimai-Doss \(1766\)](#) [Mahanta](#)
[Mai](#) [Maia \(2336\)](#) [Maia \(2667\)](#) [Makino](#) [Malandrakis](#) [Mallidi \(69\)](#) [Mallidi \(3689\)](#) [Mameli](#)
[Mamiya](#) [Manca](#) [Mandal](#) [Mandel](#) [Mangu](#) [Mansikkaniemi](#) [Marcel](#) [Marcheret](#) [Marchi \(148\)](#)
[Marchi \(2856\)](#) [Margolis](#) [MARIANI](#) [Marples](#) [Marsico \(2670\)](#) [Marsico \(3022\)](#) [Marsico \(3032\)](#)
[Martens](#) [Martin, Alvin F.](#) [Martin, Andrew](#) [Martínez, David \(195\)](#) [Martínez, David \(2133\)](#)
[Martinez, P. L. Sordo](#) [Martins](#) [Masataki \(1223\)](#) [Masataki \(2217\)](#) [Masataki \(3429\)](#) [Mason \(1986\)](#)
[Mason \(2768\)](#) [Masuko](#) [Masumura](#) [Matassoni](#) [Mateev \(775\)](#) [Mateev \(4102\)](#) [Matějka](#) [Matoušek](#)
[Matrouf](#) [Matsoukas](#) [Matsuda \(436\)](#) [Matsuda \(3259\)](#) [Matsuda \(3322\)](#) [Matsuo](#) [Matsushita](#)
[Mauclair](#) [Maymon \(3294\)](#) [Maymon \(3517\)](#) [Mayo \(133\)](#) [Mayo \(3552\)](#) [Mazuka](#) [Mazzuca](#)
[McAlpine](#) [McCallum \(460\)](#) [McCallum \(3289\)](#) [McClanahan](#) [McCree](#) [McCurry](#) [McGuire](#)
[McInnes](#) [McLaren \(84\)](#) [McLaren \(1507\)](#) [McLaren \(1981\)](#) [McLaren \(3698\)](#) [McLaren \(3703\)](#)
[McLoughlin \(1022\)](#) [McLoughlin \(1806\)](#) [Medeiros](#) [Medenica](#) [Mediani](#) [Meftouh](#) [Mehnert](#)
[Mehrabani \(1559\)](#) [Mehrabani \(2910\)](#) [Mehta](#) [Meignier \(1477\)](#) [Meignier \(3732\)](#) [Meister, Einar](#)
[Meister, Lya](#) [Melhem](#) [Mella](#) [Meltzner](#) [Ménard \(421\)](#) [Ménard \(1278\)](#) [Ménard \(1380\)](#)
[Ménard \(3542\)](#) [Meng](#) [Merlin](#) [Mertens](#) [Mesnil](#) [Metta](#) [Metze \(485\)](#) [Metze \(1121\)](#) [Metze \(1858\)](#)
[Metze \(2237\)](#) [Metze \(2929\)](#) [Meunier \(2077\)](#) [Meunier \(3162\)](#) [Meunier \(3167\)](#) [Meyer](#) [Meynadier](#)
[Miao \(94\)](#) [Miao \(2237\)](#) [Michaud](#) [Michelas](#) [Miguel \(195\)](#) [Miguel \(3132\)](#) [Miguel \(3679\)](#) [Mihalcea](#)
[Mihkla](#) [Milner \(1926\)](#) [Milner \(3264\)](#) [Minematsu \(1037\)](#) [Minematsu \(1821\)](#) [Minematsu \(1875\)](#)
[Minematsu \(2554\)](#) [Minematsu \(3453\)](#) [Minett](#) [Mirbagheri](#) [Mirghafori](#) [Mirzaei](#) [Mishra \(1559\)](#)
[Mishra \(2876\)](#) [Mitra \(15\)](#) [Mitra \(709\)](#) [Mitra \(886\)](#) [Mitra \(1507\)](#) [Mitra \(1981\)](#) [Mitra \(2306\)](#)
[Mitra \(3703\)](#) [Miura](#) [Mixdorff \(230\)](#) [Mixdorff \(277\)](#) [Miyajima](#) [Miyakoda](#) [Miyazaki, Chiaki](#)
[Miyazaki, Ryoichi](#) [Mizuno](#) [Młynarski](#) [Möbius](#) [Möller \(383\)](#) [Möller \(775\)](#) [Möller \(1106\)](#)

[Möller \(2034\)](#) [Möller \(3439\)](#) [Möller \(4102\)](#) [Mohammadi](#) [Mohr](#) [Molla](#) [Moniz](#) [Moon](#)
[Moore \(1140\)](#) [MOORE \(Special Event\)](#) [de Moraes](#) [Morchid](#) [Morency \(847\)](#) [Morency \(1458\)](#)
[Morency \(1658\)](#) [Moreno-Daniel](#) [Morgan \(99\)](#) [Morgan \(114\)](#) [Morgan \(709\)](#) [Mori, Hiroki](#)
[De Mori, Renato \(1394\)](#) [De Mori, Renato \(3756\)](#) [Mori, Shinsuke](#) [Moriguchi](#) [Morin](#) [Morise \(34\)](#)
[Morise \(1921\)](#) [Morise \(2905\)](#) [Morita](#) [Mortillaro](#) [Motlicek](#) [Motoki](#) [Moubayed](#) [Moulin-Frier](#)
[Mousa \(3404\)](#) [Mousa \(3409\)](#) [Mowlae \(832\)](#) [Mowlae \(1872\)](#) [Mowlae \(1986\)](#) [Muhammad](#)
[Munson \(421\)](#) [Munson \(2147\)](#) [MUNSON \(Keynote\)](#) [Munteanu](#) [Murakawa](#) [Murphy](#)
[Muthukumar](#) [Mysore](#)

-- N --

[N'Guyen](#) [Na, Seung-Hoon](#) [Na, Xingyu](#) [Nadeu \(2948\)](#) [Nadeu \(3507\)](#) [Nägeli](#) [Nagata](#) [Naghibi](#)
[Nahorna](#) [Nakagawa, Chieko \(1875\)](#) [Nakagawa, Chieko \(2554\)](#) [Nakagawa, Seiichi](#) [Nakagawa, Seiji](#)
[Nakajima](#) [Nakamura, Atsushi \(647\)](#) [Nakamura, Atsushi \(1223\)](#) [Nakamura, Atsushi \(2992\)](#)
[Nakamura, Ibuki \(1875\)](#) [Nakamura, Ibuki \(2554\)](#) [Nakamura, Noriko \(1875\)](#)
[Nakamura, Noriko \(2554\)](#) [Nakamura, Satoshi \(364\)](#) [Nakamura, Satoshi \(1057\)](#)
[Nakamura, Satoshi \(1067\)](#) [Nakamura, Satoshi \(1087\)](#) [Nakamura, Satoshi \(1946\)](#)
[Nakamura, Satoshi \(2614\)](#) [Nakamura, Satoshi \(2619\)](#) [Nakamura, Satoshi \(3067\)](#)
[Nakamura, Satoshi \(3072\)](#) [Nakamura, Satoshi \(3487\)](#) [Nakano, Takuya](#) [Nakano, Tomoyasu \(1057\)](#)
[Nakano, Tomoyasu \(1067\)](#) [Nakashika](#) [Nakatani, Ryohei](#) [Nakatani, Tomohiro \(822\)](#)
[Nakatani, Tomohiro \(2982\)](#) [Nakatani, Tomohiro \(2992\)](#) [Nakatani, Tomohiro \(3298\)](#)
[Nakatani, Tomohiro \(3502\)](#) [Narayanan \(6\)](#) [Narayanan \(173\)](#) [Narayanan \(182\)](#) [Narayanan \(577\)](#)
[Narayanan \(704\)](#) [Narayanan \(718\)](#) [Narayanan \(872\)](#) [Narayanan \(959\)](#) [Narayanan \(968\)](#)
[Narayanan \(973\)](#) [Narayanan \(1092\)](#) [Narayanan \(1292\)](#) [Narayanan \(1312\)](#) [Narayanan \(1502\)](#)
[Narayanan \(1614\)](#) [Narayanan \(2006\)](#) [Narayanan \(2010\)](#) [Narayanan \(2400\)](#) [Narayanan \(2425\)](#)
[Narayanan \(2430\)](#) [Narayanan \(2738\)](#) [Narayanan \(2861\)](#) [Narayanan \(3082\)](#) [Narayanan \(3177\)](#)
[Narayanan \(3483\)](#) [Narumi](#) [Natarajan, Pradeep](#) [Natarajan, Prem \(2953\)](#) [Natarajan, Prem \(3761\)](#)
[Nathwani](#) [Navas](#) [Nayak](#) [Negi](#) [Németh](#) [Nemoto \(305\)](#) [Nemoto \(1801\)](#) [Nenkova](#) [Netelenbos](#)
[Netto](#) [Neubig \(364\)](#) [Neubig \(1057\)](#) [Neubig \(1087\)](#) [Neubig \(1946\)](#) [Neubig \(2614\)](#) [Neubig \(2619\)](#)
[Neubig \(3067\)](#) [Neubig \(3072\)](#) [Neubig \(3487\)](#) [Neuschaefer-Rube](#) [Ney \(495\)](#) [Ney \(1756\)](#)
[Ney \(2197\)](#) [Ney \(2222\)](#) [Ney \(2326\)](#) [Ney \(3107\)](#) [Ney \(3352\)](#) [Ney \(3404\)](#) [Ney \(3409\)](#)
[Nguyen, Thi Thu Trang](#) [Nguyen, Thi-Lan](#) [Nguyen, Trung Hieu](#) [Nguyen, Viet Son](#) [Ni](#)
[Ní Chasaide \(29\)](#) [Ní Chasaide \(3527\)](#) [Niebuhr \(225\)](#) [Niebuhr \(230\)](#) [Niebuhr \(563\)](#) [Niehues](#)
[van Niekerk](#) [Niesler](#) [Nishigaki](#) [Nishimura](#) [Nisimura \(34\)](#) [Nisimura \(2905\)](#) [Nitta](#) [Nöth](#) [Nolazco-](#)
[Flores](#) [Norouzi](#) [Norouzian](#) [Norrenbrock](#) [Nose \(378\)](#) [Nose \(1072\)](#) [Nose \(1549\)](#) [Nouri](#) [Novak](#)
[Nunes](#) [Nurminen \(373\)](#) [Nurminen \(388\)](#) [Nussbaum-Thom](#) [Nwe](#)

-- O --

[O'Shaughnessy \(891\)](#) [O'Shaughnessy \(2420\)](#) [O'Shaughnessy \(2678\)](#) [O'Shaughnessy \(3122\)](#)
[Oard](#) [Oba \(1223\)](#) [Oba \(3429\)](#) [Obuchi](#) [Ochei](#) [Oertel](#) [Ogane](#) [Ogawa, Atsunori](#) [Ogawa, Tetsuji](#)
[Oh, Jieun \(158\)](#) [Oh, Jieun \(754\)](#) [Oh, Yoon Mi](#) [Oh, Yung-Hwan](#) [Ohgushi](#) [Ohishi](#) [Ohmuro](#)
[Ohno](#) [Okanoya](#) [Oku](#) [Okuno](#) [Olaso](#) [Oliveira](#) [Omar](#) [Omologo \(759\)](#) [Omologo \(3665\)](#) [Ons](#)
[Onsuwan](#) [Oparin](#) [Orosanu](#) [Ortega, Alfonso \(195\)](#) [Ortega, Alfonso \(3132\)](#) [Ortega, Alfonso \(3679\)](#)
[Ortega, Antonio](#) [Ostendorf](#) [Oualil](#) [Oudeyer](#) [Ouellet](#) [Ouni](#) [Ozawa](#)

-- P --

[Pajupuu, Hille](#) [Pajupuu, Jaan](#) [Palaz](#) [Palinko](#) [Pan, Ho-hsien](#) [Pan, Jieli \(1941\)](#)
[Pan, Jieli \(3419\)](#) [Pao](#) [Pardo, J. M.](#) [Pardo, Jennifer S.](#) [Parfait](#) [Parinam](#) [Park, Jeong-Sik](#)
[Park, Jihwan](#) [Park, Sunghyun](#) [Parker](#) [Parlikar](#) [PAROUBEK](#) [Parthasarathy](#) [Patel, Rupal](#)
[Patel, Tanvina B.](#) [Patil, Hemant A.](#) [Patil, Vaishali](#) [Paulik \(89\)](#) [Paulik \(1906\)](#) [de Pauw](#) [Pavani](#)
[Payan](#) [Peddinti](#) [Pekhovsky](#) [Pelecanos](#) [Pellegriani](#) [Pellegriano \(2670\)](#) [Pellegriano \(3022\)](#)
[Pellegriano \(3032\)](#) [Pelz \(2549\)](#) [Pelz \(3722\)](#) [Penagarikano \(20\)](#) [Penagarikano \(64\)](#)
[Penagarikano \(1497\)](#) [Penagarikano \(2504\)](#) [Penn](#) [Perakakis](#) [Perera](#) [Perez](#) [Pérez-Rosas](#)
[Perkell](#) [Perrier \(1278\)](#) [Perrier \(2252\)](#) [Pešán](#) [Peterson](#) [Petit](#) [Petkov \(3587\)](#) [Petkov \(3597\)](#)

[Petrick](#) [Petrovsky \(1032\)](#) [Petrovsky \(1697\)](#) [Petrovsky \(2662\)](#) [Pettinato](#) [Pfeiffer](#) [Pfister \(1520\)](#)
[Pfister \(1951\)](#) [Pfitzinger](#) [Phienphanich](#) [Piazza](#) [Picart](#) [Piccaluga](#) [Picone](#) [Pietquin](#) [Pillot-](#)
[Loiseau](#) [Pinquier](#) [Pitathawatchai](#) [Planells](#) [Pichot](#) [Plummer](#) [Poblete](#) [Podlipsky](#)
[Pohjalainen \(49\)](#) [Pohjalainen \(210\)](#) [Pohjalainen \(1544\)](#) [Pohjalainen \(1931\)](#) [Pohjalainen \(2489\)](#)
[Pohjalainen \(2881\)](#) [Poignant \(1462\)](#) [Poignant \(1467\)](#) [Pointeau](#) [Pollok](#) [Polychroniou \(148\)](#)
[Polychroniou \(539\)](#) [Portêlo](#) [Portes](#) [Portet \(2062\)](#) [Portet \(2065\)](#) [Post](#) [Potamianos \(718\)](#)
[Potamianos \(2415\)](#) [Potamianos \(2733\)](#) [Potamianos \(2832\)](#) [Povey \(109\)](#) [Povey \(2345\)](#)
[Prasad, N. Vishnu](#) [Prasad, RaviShankar](#) [Prasad, Rohit \(2054\)](#) [Prasad, Rohit \(2953\)](#)
[Prasad, Rohit \(3761\)](#) [Prasanna \(44\)](#) [Prasanna \(1677\)](#) [Prego](#) [Premkumar](#) [Prémont](#) [Preuß](#)
[Price](#) [Principi](#) [Proctor \(577\)](#) [Proctor \(959\)](#) [Proctor \(2006\)](#) [Proctor \(3142\)](#) [Prom-on \(349\)](#)
[Prom-on \(3532\)](#) [Provost](#) [Prud'hommeaux](#) [Pulakka](#)

-- Q --

[Qi \(1746\)](#) [Qi \(1751\)](#) [Qian, Xiaojun](#) [Qian, Yanmin](#) [Qian, Yao](#) [Qin](#) [Qu](#) [Quatieri](#) [Quénot](#) [Quirk](#)

-- R --

[Raake \(1384\)](#) [Raake \(2604\)](#) [Räsänen \(210\)](#) [Räsänen \(465\)](#) [Raitio \(1062\)](#) [Raitio \(1544\)](#)
[Raitio \(2316\)](#) [Raitio \(3562\)](#) [Raj, Anant](#) [Raj, Bhiksha \(2455\)](#) [Raj, Bhiksha \(2494\)](#)
[Raj, Bhiksha \(3414\)](#) [Rajan \(1986\)](#) [Rajan \(2489\)](#) [Rajan \(2519\)](#) [Rajan \(2881\)](#) [Rajan \(3694\)](#)
[Rajan \(3708\)](#) [Rakov](#) [Ramanarayanan \(959\)](#) [Ramanarayanan \(973\)](#) [Ramanarayanan \(1312\)](#)
[Ramanarayanan \(1614\)](#) [Ramanarayanan \(2010\)](#) [Ramanarayanan \(2425\)](#) [Ramesh](#) [Ramos \(2465\)](#)
[Ramos \(3674\)](#) [Rao, Hrishikesh \(1399\)](#) [Rao, Hrishikesh \(3221\)](#) [Rao, Preeti](#) [Rasipuram](#)
[Rath \(109\)](#) [Rath \(1228\)](#) [Rato](#) [Rauber](#) [Ravanelli](#) [Ravuri](#) [Rawat](#) [Reddy](#) [Redmond](#) [Reetz](#)
[Reichel \(320\)](#) [Reichel \(340\)](#) [Reichel \(1414\)](#) [Reichel \(1443\)](#) [Reichmuth \(775\)](#) [Reichmuth \(4102\)](#)
[Remes](#) [Remus](#) [Renals \(2723\)](#) [Renals \(3087\)](#) [Renals \(3492\)](#) [Rennies](#) [Renwick](#) [Reubold](#)
[Ribas](#) [Riccardi \(1111\)](#) [Riccardi \(2688\)](#) [Riccardi \(2851\)](#) [Richards, Jeffrey A.](#) [Richards, Justin](#)
[Richmond \(764\)](#) [Richmond \(1012\)](#) [Riedhammer](#) [Righini](#) [Rigoll \(690\)](#) [Rigoll \(1668\)](#) [Riley](#)
[Rilliard \(1648\)](#) [Rilliard \(2311\)](#) [Ringeval](#) [Roark](#) [Robb](#) [Robert](#) [Rochet-Capellan \(1653\)](#) [Rochet-](#)
[Capellan \(2014\)](#) [Rochon](#) [Rodríguez](#) [Rodríguez-Fuentes \(20\)](#) [Rodríguez-Fuentes \(64\)](#)
[Rodríguez-Fuentes \(1497\)](#) [Rodríguez-Fuentes \(2504\)](#) [Roman](#) [Roquel](#) [Rosales](#) [Rose, Ralph L.](#)
[Rose, Richard C. \(1776\)](#) [Rose, Richard C. \(2594\)](#) [Rosenberg \(178\)](#) [Rosenberg \(200\)](#)
[Rosenberg \(520\)](#) [Rosenberg \(842\)](#) [Rossato \(2065\)](#) [Rossato \(2157\)](#) [Rosset](#) [Rossi](#) [Rottmann](#)
[Rouvier](#) [Roy](#) [Rozga](#) [Ruan](#) [Rudnicky \(2242\)](#) [Rudnicky \(2247\)](#) [Rudzicz](#) [Rusaw](#) [Russell \(1844\)](#)
[Russell \(2440\)](#) [Ryant \(728\)](#) [Ryant \(2306\)](#)

-- S --

[Saam](#) [Sadakata \(901\)](#) [Sadakata \(3201\)](#) [Sadjadi \(709\)](#) [Sadjadi \(1609\)](#) [Sadjadi \(1986\)](#)
[Sadjadi \(3656\)](#) [Saeidi \(1609\)](#) [Saeidi \(1872\)](#) [Saeidi \(1986\)](#) [Saers](#) [Safavi](#) [Sagayama \(1017\)](#)
[Sagayama \(1826\)](#) [Sahkaï](#) [Saiko](#) [Saimai, N.](#) [Saimai, T.](#) [Saito](#) [Sak](#) [Sakakibara](#) [Sakti \(364\)](#)
[Sakti \(1057\)](#) [Sakti \(1946\)](#) [Sakti \(2614\)](#) [Sakti \(2619\)](#) [Sakti \(3067\)](#) [Sakti \(3072\)](#) [Sakti \(3487\)](#)
[Salamin \(148\)](#) [Salamin \(539\)](#) [Samlan](#) [Samlowski](#) [San-Segundo \(1164\)](#) [San-Segundo \(3617\)](#)
[Sanand](#) [Sanchis](#) [Sangwan](#) [Sankar](#) [Sano](#) [van Santen](#) [Santos](#) [Sao](#) [Saon \(3092\)](#)
[Saon \(3497\)](#) [Sapru](#) [Saraçlar](#) [Sarıkaya \(2713\)](#) [Sarıkaya \(3776\)](#) [Sarıkaya \(3785\)](#) [Sarkar \(2450\)](#)
[Sarkar \(2484\)](#) [Saruwatari](#) [Sasou](#) [Sato, Hiroshi](#) [Sato, Marc](#) [Sato, Shoei](#) [Satt](#) [Savariaux](#) [Saz](#)
[Scharenborg](#) [Schatz](#) [Schauffler](#) [Scheffer \(84\)](#) [Scheffer \(709\)](#) [Scheffer \(1507\)](#) [Scheffer \(1981\)](#)
[Scheffer \(3703\)](#) [Schepker](#) [Scherer, Klaus](#) [Scherer, Stefan \(847\)](#) [Scherer, Stefan \(1458\)](#)
[Scherer, Stefan \(1658\)](#) [Schiel \(1414\)](#) [Schiel \(1419\)](#) [Schindler](#) [Schlangen \(803\)](#)
[Schlangen \(2649\)](#) [Schleicher \(775\)](#) [Schleicher \(4102\)](#) [Schlien](#) [Schlippe](#) [Schlüter \(495\)](#)
[Schlüter \(2197\)](#) [Schlüter \(2222\)](#) [Schlüter \(3107\)](#) [Schlüter \(3352\)](#) [Schlüter \(3404\)](#) [Schlüter \(3409\)](#)
[Schoenenberg](#) [Schoentgen \(587\)](#) [Schoentgen \(2257\)](#) [Schoentgen \(3632\)](#) [Schötz](#) [Schrauwen](#)
[Schulam](#) [Schuller \(148\)](#) [Schuller \(690\)](#) [Schuller \(1668\)](#) [Schuller \(2044\)](#) [Schuller \(2841\)](#)
[Schuller \(2856\)](#) [Schultz \(515\)](#) [Schultz \(2202\)](#) [Schultz \(2698\)](#) [Schwartz \(1643\)](#) [Schwartz \(2797\)](#)
[Schweitzer, Antje](#) [Schweitzer, Katrin](#) [Schwenk](#) [Schwenninger](#) [Scobbie](#) [Segarra](#)

[van Segbroeck \(182\)](#) [van Segbroeck \(704\)](#) [van Segbroeck \(718\)](#) [van Segbroeck \(872\)](#) [Segui](#)
[Sehili](#) [Sehr](#) [Seide](#) [Seigel](#) [Seiyama](#) [Sekiyama](#) [Senay \(1584\)](#) [Senay \(2539\)](#) [Senay \(2778\)](#)
[Seng](#) [Senior](#) [Senoussaoui](#) [Sethu \(205\)](#) [Sethu \(857\)](#) [Shafey](#) [Shafiro](#) [Shafran \(191\)](#)
[Shafran \(1936\)](#) [Shaik \(3404\)](#) [Shaik \(3409\)](#) [Shamma](#) [Sharma, Amrita](#) [Sharma, Pulkit](#)
[Shaw \(2108\)](#) [Shaw \(2128\)](#) [Shaw \(3142\)](#) [Sheffield](#) [Shen](#) [Shepstone](#) [Shi, Pengcheng \(2549\)](#)
[Shi, Pengcheng \(3722\)](#) [Shi, Yangyang \(632\)](#) [Shi, Yangyang \(1203\)](#) [Shi, Yangyang \(2524\)](#)
[Shiang](#) [Shiga \(364\)](#) [Shiga \(1052\)](#) [Shikano](#) [Shimauchi](#) [Shimodaira \(2758\)](#) [Shimodaira \(2763\)](#)
[Shindo](#) [Shingai](#) [Shinoda](#) [Shinohara](#) [Shinozaki](#) [Shivakumar](#) [Shochi](#) [Shokouhi](#) [Shosted \(612\)](#)
[Shosted \(3042\)](#) [Shriberg \(1911\)](#) [Shriberg \(2559\)](#) [Shulipa](#) [Si](#) [Siddins](#) [Signorello](#) [Sigona](#)
[Silén \(373\)](#) [Silén \(388\)](#) [Silva, Catarina](#) [Silva, Samuel](#) [Sim \(1796\)](#) [Sim \(2321\)](#) [Sim \(2963\)](#)
[Sim \(3002\)](#) [Šimáčková](#) [Simard](#) [Šimko \(243\)](#) [Šimko \(535\)](#) [Šimko \(1375\)](#) [Simonchik](#) [Singh](#)
[Siniscalchi](#) [Siohan](#) [Sisinni](#) [Sityaev](#) [Skantze \(747\)](#) [Skantze \(1901\)](#) [Skarnitzl \(3182\)](#)
[Skarnitzl \(3191\)](#) [Skodda \(1149\)](#) [Skodda \(2257\)](#) [Skoglund](#) [Skopeteas](#) [Skowronek \(1384\)](#)
[Skowronek \(2604\)](#) [Skrelin](#) [Slaney \(158\)](#) [Slaney \(1911\)](#) [Smali de Smet](#) [Smith, Caitlin \(2006\)](#)
[Smith, Caitlin \(3230\)](#) [Smith, Caroline L.](#) [Snitkovsky](#) [Sobel](#) [Sock](#) [Soltau \(3092\)](#) [Soltau \(3497\)](#)
[van Son](#) [Song, Meixu](#) [Song, Yan \(1022\)](#) [Song, Yan \(3052\)](#) [Soong \(39\)](#) [Soong \(1886\)](#)
[Soong \(2743\)](#) [Soong \(2748\)](#) [Sorensen](#) [Sorin](#) [Sosi](#) [Souden \(822\)](#) [Souden \(3298\)](#) [Soufifar](#)
[Soury \(773\)](#) [Soury \(4101\)](#) [Souviraà-Labastie](#) [Speights](#) [Sperber](#) [Spini](#) [Spyrou](#) [Squartini](#)
[Sridhar \(1861\)](#) [Sridhar \(3468\)](#) [Sridharan \(2465\)](#) [Sridharan \(3674\)](#) [Stadtschnitzer](#) [Stafylakis](#)
[Stan \(1525\)](#) [Stan \(2331\)](#) [Stanford](#) [Steidl \(148\)](#) [Steidl \(1149\)](#) [Stein](#) [Steiner](#) [Stella, Antonio](#)
[Stella, Massimo](#) [Stenger](#) [Stern](#) [Stevens](#) [Stolcke \(2306\)](#) [Stolcke \(2559\)](#) [Story](#) [Stratou](#)
[Strik \(982\)](#) [Strik \(2385\)](#) [Strömbergsson \(2584\)](#) [Strömbergsson \(3717\)](#) [Stroobandt](#) [Stüker](#)
[Sturm](#) [Stylianou \(133\)](#) [Stylianou \(1169\)](#) [Stylianou \(2336\)](#) [Stylianou \(2667\)](#) [Stylianou \(3557\)](#)
[Stylianou \(3567\)](#) [Stylianou \(3572\)](#) [Su](#) [Suh](#) [Sumner](#) [Sun, Dennis L.](#) [Sun, Hanwu \(1986\)](#)
[Sun, Hanwu \(1991\)](#) [Sun, Jiayin](#) [Sundaram](#) [Sung, June Sig](#) [Sung, Yun-hsuan](#) [Suni \(1544\)](#)
[Suni \(3562\)](#) [Sutton \(612\)](#) [Sutton \(3042\)](#) [Suzuki \(1875\)](#) [Suzuki \(2554\)](#) [Suzuki \(3453\)](#) [Svendsen](#)
[Swietojanski \(3087\)](#) [Swietojanski \(3642\)](#) [Szaszák](#)

-- T --

[Taal \(1174\)](#) [Taal \(3582\)](#) [Tabain \(291\)](#) [Tabain \(1258\)](#) [Tachioka](#) [Tagawa \(1875\)](#) [Tagawa \(2554\)](#)
[Taghia](#) [Tahir](#) [Tajima](#) [Takahashi \(1047\)](#) [Takahashi \(2217\)](#) [Takahashi \(3429\)](#) [Takamichi \(364\)](#)
[Takamichi \(2614\)](#) [Takanashi](#) [Takanen](#) [Takashima \(369\)](#) [Takashima \(3637\)](#) [Takeda, Kazuya](#)
[Takeda, Ryu](#) [Takiguchi \(369\)](#) [Takiguchi \(3637\)](#) [Takiguchi \(3747\)](#) [Takou](#) [Tam](#)
[Tan, Lee Ngee \(709\)](#) [Tan, Lee Ngee \(3284\)](#) [Tan, Zheng-Hua](#) [Tanaka, Kazuyo](#) [Tanaka, Kou](#)
[Tanaka, Kuniyoshi](#) [Tang](#) [Tännander](#) [Tantibundhit](#) [Taylor](#) [Teixeira](#) [Tejedor \(1746\)](#)
[Tejedor \(1751\)](#) [Tejedor \(2460\)](#) [Telaar](#) [Temple](#) [Tepperman](#) [Tessema](#) [Thai-Van](#) [Thangthai](#)
[Theodore](#) [Thiruvaran](#) [Thomas](#) [Thomson](#) [Tiainen](#) [Tiede \(1278\)](#) [Tiede \(3542\)](#) [Tihelka](#) [Tiippana](#)
[Tjalve](#) [Toda \(34\)](#) [Toda \(364\)](#) [Toda \(1057\)](#) [Toda \(1067\)](#) [Toda \(1946\)](#) [Toda \(2614\)](#) [Toda \(2619\)](#)
[Toda \(3067\)](#) [Toda \(3072\)](#) [Toda \(3487\)](#) [Todo](#) [Tokuma, Shinichi](#) [Tokuma, Won](#)
[Toledo-Ronen \(1482\)](#) [Toledo-Ronen \(1692\)](#) [Tomar](#) [Tomaschek](#) [Torbatí](#) [Torres \(480\)](#)
[Torres \(1771\)](#) [Tóth, Attila Máté](#) [Tóth, László \(220\)](#) [Tóth, László \(1722\)](#) [Toutios \(577\)](#)
[Toutios \(1292\)](#) [Toutios \(2738\)](#) [Tran, Do Dat \(2311\)](#) [Tran, Do Dat \(3522\)](#) [Tran, Thi Anh Xuan](#)
[Tran, Thuy N.](#) [Trancoso \(852\)](#) [Trancoso \(2494\)](#) [Trancoso \(2629\)](#) [Tratz](#) [Traum](#) [Triefenbach](#)
[Trouvain](#) [Trudeau-Fisette](#) [Truong \(163\)](#) [Truong \(1404\)](#) [Tsai \(709\)](#) [Tsai \(737\)](#) [Tsao \(215\)](#)
[Tsao \(436\)](#) [Tsao \(2703\)](#) [Tsao \(3002\)](#) [Tsao \(3062\)](#) [Tseng](#) [Tsiartas \(182\)](#) [Tsiartas \(704\)](#)
[Tsiartas \(718\)](#) [Tsiartas \(3483\)](#) [Tsolaki](#) [Tsurutani](#) [Tüske \(2222\)](#) [Tüske \(3107\)](#) [Tur \(1594\)](#)
[Tur \(2569\)](#) [Tur \(2579\)](#) [Tur \(3780\)](#) [Turan](#) [Turgeon](#) [Turk](#) [Twaha](#) [Tyler](#)

-- U --

[Ueffing](#) [Uematsu](#) [Uezu](#) [Umesh](#) [Unoki](#) [Uría](#)

-- V --

[Vacher \(2062\)](#) [Vacher \(2065\)](#) [Vaerenberg \(1854\)](#) [Vaerenberg \(3608\)](#) [Vaerenberg \(3613\)](#)
[Vainio, Lari](#) [Vainio, Martti \(243\)](#) [Vainio, Martti \(1544\)](#) [Vainio, Martti \(1634\)](#) [Vainio, Martti \(3562\)](#) [Vair](#)
[Valente \(148\)](#) [Valente \(1409\)](#) [Valentini-Botinhao \(3552\)](#) [Valentini-Botinhao \(3567\)](#)
[Van hamme \(1717\)](#) [Van hamme \(2039\)](#) [Vandyke](#) [Vanrumste](#) [Vargas](#) [Variani](#) [Varnet](#)
[Varona \(20\)](#) [Varona \(64\)](#) [Varona \(1497\)](#) [Varona \(2504\)](#) [Varona \(2509\)](#) [Vashkevich \(1032\)](#)
[Vashkevich \(1697\)](#) [Vashkevich \(2662\)](#) [Vaughn](#) [Vaz](#) [Verdurand](#) [Vergyri](#) [Verhelst \(2890\)](#)
[Verhelst \(3602\)](#) [Versteegh \(680\)](#) [Versteegh \(2639\)](#) [Vesely \(109\)](#) [Vesely \(2345\)](#) [Vesely \(2589\)](#)
[Vigário](#) [Vilain \(1653\)](#) [Vilain \(2252\)](#) [Villaalba \(2509\)](#) [Villaalba \(3132\)](#) [Villaalba \(3679\)](#) [Vincent](#)
[Vinciarelli \(148\)](#) [Vinciarelli \(539\)](#) [Vinciarelli \(1409\)](#) [Vinyals](#) [Vipperla](#) [Virtanen \(827\)](#)
[Virtanen \(3057\)](#) [Vishnubhotla](#) [Vitale](#) [Vogel](#) [Voigt](#) [Voix](#) [Volskaya](#) [Vootkuri](#) [Voss](#) [Vozila](#)
[Vu \(515\)](#) [Vu \(2202\)](#) [Vu \(2698\)](#) [Vuegen](#) [Vullingsh](#) [van Vuuren](#)

-- W --

[Wagner, Johannes](#) [Wagner, Michael \(2534\)](#) [Wagner, Michael \(3117\)](#) [Wagner, Petra \(272\)](#)
[Wagner, Petra \(535\)](#) [Wagner, Petra \(597\)](#) [Wagner, Petra \(1375\)](#) [Wagner, Petra \(1434\)](#) [Waibel \(94\)](#)
[Waibel \(1087\)](#) [Waibel \(3473\)](#) [Walsh](#) [Wan](#) [Wang, Chao](#) [Wang, Chaoyang](#) [Wang, Dong \(1746\)](#)
[Wang, Dong \(1751\)](#) [Wang, Dong \(2460\)](#) [Wang, Ge](#) [Wang, Haipeng](#) [Wang, Hongcui](#)
[Wang, Hongyan](#) [Wang, Hsin-Min](#) [Wang, Jun \(1331\)](#) [Wang, Jun \(2460\)](#) [Wang, Lan](#)
[Wang, Lijuan \(2743\)](#) [Wang, Lijuan \(2748\)](#) [Wang, Longbiao](#) [Wang, Miaomiao](#) [Wang, Wen](#)
[Wang, Wenyi](#) [Wang, William S. -Y.](#) [Wang, Xiangfeng](#) [Wang, Xiaoxuan](#) [Wang, Xin](#)
[Wang, Xinhao](#) [Wang, Y.-Q.](#) [Wang, Yih-Ru](#) [Wang, Yipei](#) [Wang, Yow-Bang](#) [Wang, Yuguang](#)
[Ward](#) [Watanabe, Mario Kaoru \(832\)](#) [Watanabe, Mario Kaoru \(1872\)](#) [Watanabe, Shinji](#) [Watts](#)
[Wechsung](#) [Wei, Jianguo \(568\)](#) [Wei, Jianguo \(3187\)](#) [Wei, Wen-Li](#) [Weiss \(1106\)](#) [Weiss \(2034\)](#)
[Wen, Shufei](#) [Wen, Tsung-Hsien \(490\)](#) [Wen, Tsung-Hsien \(2703\)](#) [Weninger \(148\)](#)
[Weninger \(2044\)](#) [Werner](#) [Westermann \(775\)](#) [Westermann \(4102\)](#) [Wieling](#) [Wiesen](#) [Wiesler \(495\)](#)
[Wiesler \(3317\)](#) [Wiggers](#) [Williams, Benjamin](#) [Williams, Geoff](#) [Williams, Marian E.](#) [Williamson](#)
[Willkomm](#) [Wilson](#) [Windmann](#) [Wintrode](#) [Włodarczak \(535\)](#) [Włodarczak \(1434\)](#) [Wolf](#)
[Womack \(2549\)](#) [Womack \(3722\)](#) [Wong, Janice Wing Sze](#) [Wong, Lena L. N.](#) [Wong, Nicole](#)
[Woodland \(2187\)](#) [Woodland \(3424\)](#) [Wrede](#) [Wu, Chung-Hsien \(1336\)](#) [Wu, Chung-Hsien \(1487\)](#)
[Wu, Dekai](#) [Wu, Shuang](#) [Wu, Xiaojun](#) [Wu, Youzheng](#) [Wu, Zhizheng \(950\)](#) [Wu, Zhizheng \(3057\)](#)
[Wuth](#) [Wutiwivatchai \(2207\)](#) [Wutiwivatchai \(2262\)](#)

-- X --

[Xi](#) [Xia, Bing-yin](#) [Xia, Rui \(2837\)](#) [Xia, Rui \(2886\)](#) [Xiao, Bo](#) [Xiao, Jinjun](#) [Xiao, Xiong \(500\)](#)
[Xiao, Xiong \(876\)](#) [Xu, Dongxin](#) [Xu, Hainan](#) [Xu, Ji](#) [Xu, Jian](#) [Xu, Puyang](#) [Xu, Yanbo](#)
[Xu, Yi \(349\)](#) [Xu, Yi \(3532\)](#) [Xue, Jian \(2365\)](#) [Xue, Jian \(3317\)](#) [Xue, Wei](#)

-- Y --

[Yadagiri](#) [Yamada](#) [Yamagishi \(925\)](#) [Yamagishi \(1012\)](#) [Yamagishi \(1525\)](#) [Yamagishi \(1877\)](#)
[Yamagishi \(2331\)](#) [Yamagishi \(3567\)](#) [Yamakawa](#) [Yamamoto, Hitoshi](#) [Yamamoto, Kazumasa](#)
[Yaman](#) [Yan, Yonghong \(1184\)](#) [Yan, Yonghong \(1941\)](#) [Yan, Yonghong \(2099\)](#)
[Yan, Yonghong \(3419\)](#) [Yan, Zhi-Jie](#) [Yanagisawa](#) [Yang, Jing](#) [Yang, Jingzhou](#) [Yang, Zhaojun](#)
[Yanushevskaya \(29\)](#) [Yanushevskaya \(3527\)](#) [Yao, Kaisheng \(1203\)](#) [Yao, Kaisheng \(2524\)](#)
[Yao, Xiao](#) [Yasu](#) [Yasuda \(417\)](#) [Yasuda \(3226\)](#) [Ye](#) [Yegnanarayana \(963\)](#) [Yegnanarayana \(1916\)](#)
[Yegnanarayana \(2292\)](#) [Yeh](#) [Ying](#) [Yoma \(896\)](#) [Yoma \(2871\)](#) [Yoma \(3337\)](#) [Yoo](#) [Yoshino](#)
[Yoshioka, Osamu \(1047\)](#) [Yoshioka, Osamu \(2217\)](#) [Yoshioka, Osamu \(3429\)](#) [Yoshioka, Takuya](#)
[Yoshizato \(1017\)](#) [Yoshizato \(1826\)](#) [You \(1986\)](#) [You \(3651\)](#) [Yu, Bea](#) [Yu, Chengzhu](#)
[Yu, Dong \(1849\)](#) [Yu, Dong \(2360\)](#) [Yu, Dong \(2524\)](#) [Yu, Dong \(3366\)](#) [Yu, Kai](#) [Yu, Tien-han](#)
[Yuan \(728\)](#) [Yuan \(1193\)](#) [Yuan \(2306\)](#) [Yvon \(1966\)](#) [Yvon \(2326\)](#)

-- Z --

[Zahorian](#) [Zainkó](#) [Zavesky](#) [Zavou](#) [Zeiler](#) [Zeller](#) [Zellers \(248\)](#) [Zellers \(253\)](#) [Zhang, Bing](#)

[Zhang, Mengqiu](#) [Zhang, Qian](#) [Zhang, Qingqing \(1941\)](#) [Zhang, Qingqing \(3419\)](#) [Zhang, Tao](#)
[Zhang, Wei-Qiang \(59\)](#) [Zhang, Wei-Qiang \(2474\)](#) [Zhang, Weibin](#) [Zhang, Xinjian](#)
[Zhang, Zixing](#) [Zheng, Chenxi](#) [Zheng, Jing](#) [Zheng, Thomas Fang](#) [Zhou](#) [Zhu, Weizhong](#)
[Zhu, Yinghua](#) [Zhuang \(2054\)](#) [Zhuang \(2953\)](#) [Zimmerer \(417\)](#) [Zimmerer \(3226\)](#) [Zinovieva](#)
[Zmarich](#) [Zorilă](#) [Zweig](#) [Zwyssig](#)

Table of Contents and Access to Abstracts - Ordered by Sessions

[Keynotes](#) [Special Event: ESCA/ISCA Anniversary](#)

Regular Sessions (Oral and Poster)

[Acoustic and Articulatory Cues in Speech Perception](#) [Articulatory and Acoustic Cues of Speech Prosody](#)
[ASR - Acoustic Modeling](#) [ASR - Adaptive Training](#) [ASR - Discriminative Training](#)
[ASR - Feature Extraction](#) [ASR - Lexical, Prosodic and Cross/Multi-Lingual](#)
[ASR - Neural Networks](#) [ASR - Pronunciation, Prosodic and New Paradigms](#)
[ASR - Pronunciation Variants and Modeling](#) [ASR - Robustness Against Noise I-III](#)
[Dialog Modeling](#) [Dialog Systems](#) [Dialog Systems and Applications I, II](#)
[Discourse, Intonation, Prosody](#)
[Discourse and Machine Learning, Paralinguistic and Nonlinguistic Cues](#)
[Discriminative Training Methods for Language Modeling](#) [General Topics in ASR](#)
[L2 Acquisition, Multilingualism](#) [Language and Dialect Recognition](#)
[Language Identification, Speaker Diarization](#) [Language Model Adaptation](#)
[Language Modeling for Conversational Speech](#)
[Large Vocabulary Continuous Speech Recognition Systems](#)
[Linguistic Systems, Phonetics-Phonology Interface](#) [Metadata, Evaluation and Resources I, II](#)
[Models of Speech Perception](#) [Multimodal Speech Perception](#) [Neural Basis of Speech Perception](#)
[Paralinguistic Information I, II](#) [Perception, Dialectal Differences](#) [Perception of Non Native Sounds](#)
[Perception of Prosody](#) [Phonetic Convergence](#)
[Physiology and Models of Speech Production](#) [Prosody, Phonetics of Language Varieties](#)
[Robust Speaker Recognition I, II](#) [Search and Computational Issues in LVCSR](#)
[Source Separation](#) [Speaker Diarization and Recognition](#) [Speaker Recognition I, II](#)
[Speaker Recognition Evaluation](#) [Speech Acoustics](#) [Speech Acquisition and Development](#)
[Speech Analysis I-IV](#) [Speech and Audio Segmentation](#) [Speech and Audio Signal Processing](#)
[Speech and Hearing Disorders](#) [Speech Disorders - Data and Methodology](#)
[Speech Enhancement](#) [Speech Enhancement - Single Channel](#) [Speech Enhancement and Coding](#)
[Speech Production, Acquisition and Development I, II](#) [Speech Production - Data and Models](#)
[Speech Science in End-User Applications](#) [Speech Synthesis I, II](#)
[Speech Synthesis - Multimodal and Articulatory Synthesis](#) [Speech Synthesis - Prosody](#)

[and Emotion](#)
[Speech Synthesis - Various Topics](#) [Speech Synthesis - Voice Conversion](#)
[Speech Technology for Speech and Hearing Disorders I, II](#)
[Spoken Language Information Retrieval](#) [Spoken Language Summarization and Understanding](#)
[Spoken Machine Translation and Speech Natural Language Processing I, II](#)
[Systems for Search/Retrieval of Speech Documents](#)
[Topics in Speech Perception and Emotion](#) [Voice Activity Detection and Speech Segmentation](#)

Special Sessions

[Articulatory Data Acquisition and Processing](#) [Child Computer Interaction](#)
[Intelligibility-Enhancing Speech Modifications](#) [Paralinguistic Challenge](#)
[Spoofing and Countermeasures for Automatic Speaker Verification](#) [Show and Tell Sessions 1-3](#)

Table of Contents and Access to Abstracts

Keynotes

[Hermansky, Hynek: "My adventures with speech".](#)

[Munson, Benjamin: "On the interaction of social and linguistic factors in phonetic variation in typical and atypical speakers".](#)

[Giraud, Anne-Lise: "Are cortical oscillations a useful ingredient of speech perception?".](#)

[Clerc, Maureen: "Verbal communication through brain computer interfaces".](#)

Systems for Search/Retrieval of Speech Documents

[Anguera, Xavier: "Information retrieval-based dynamic time warping", 1-5.](#)

[Can, Doğan / Narayanan, Shrikanth: "On the computation of document frequency statistics from spoken corpora using factor automata", 6-10.](#)

[Katsurada, Kouichi / Miura, Seiichi / Seng, Kheang / Iribe, Yurie / Nitta, Tsuneo: "Acceleration of spoken term detection using a suffix array by assigning optimal threshold values to sub-keywords", 11-14.](#)

[Mandal, Arindam / Hout, Julien van / Tam, Yik-Cheung / Mitra, Vikramjit / Lei, Yun / Zheng, Jing / Vergyri, Dimitra / Ferrer, Luciana / Graciarena, Martin / Kathol, Andreas / Franco, Horacio: "Strategies for high accuracy keyword detection in noisy channels", 15-19.](#)

[Abad, Alberto / Rodríguez-Fuentes, Luis Javier / Penagarikano, Mikel / Varona, Amparo / Bordel, Germán: "On the calibration and fusion of heterogeneous spoken term detection systems", 20-24.](#)

[Narumi, Shiro / Konno, Kazuma / Nakano, Takuya / Itoh, Yoshiaki / Kojima, Kazunori / Ishigame, Masaaki / Tanaka, Kazuyo / Lee, Shi-wook: "Intensive acoustic models constructed by integrating low-occurrence models for spoken term detection", 25-28.](#)

Speech Analysis I-IV

[Kane, John / Yanushevskaya, Irena / Dalton, John / Gobl, Christer / Ní Chasaide, Ailbhe: "Using](#)

[phonetic feature extraction to determine optimal speech regions for maximising the effectiveness of glottal source analysis", 29-33.](#)

[Kawahara, Hideki / Morise, Masanori / Toda, Tomoki / Nisimura, Ryuichi / Irino, Toshio: "Beyond bandlimited sampling of speech spectral envelope imposed by the harmonic structure of voiced sounds", 34-38.](#)

[Lee, JeeSok / Soong, Frank K. / Kang, Hong-Goo: "A source-filter based adaptive harmonic model and its application to speech prosody modification", 39-43.](#)

[Ramesh, K. / Prasanna, S. R. M. / Govind, D.: "Detection of glottal opening instants using Hilbert envelope", 44-48.](#)

[Gowda, Dhananjaya / Pohjalainen, Jouni / Kurimo, Mikko / Alku, Paavo: "Robust formant detection using group delay function and stabilized weighted linear prediction", 49-53.](#)

[Hézar, Thomas / Hélie, Thomas / Doval, Boris: "A source-filter separation algorithm for voiced sounds based on an exact anticausal/causal pole decomposition for the class of periodic signals", 54-58.](#)

[Godoy, Elizabeth / Koutsogiannaki, M. / Stylianou, Yannis: "Assessing the intelligibility impact of vowel space expansion via clear speech-inspired frequency warping", 1169-1173.](#)

[Jensen, Jesper / Taal, Cees H.: "Prediction of intelligibility of noisy and time-frequency weighted speech based on mutual information between amplitude envelopes", 1174-1178.](#)

[Jokinen, Emma / Takanen, Marko / Alku, Paavo: "Frequency-adaptive post-filtering for intelligibility enhancement of narrowband telephone speech", 1179-1183.](#)

[Li, Junfeng / Chen, Fei / Akagi, Masato / Yan, Yonghong: "Comparative investigation of objective speech intelligibility prediction measures for noise-reduced signals in Mandarin and Japanese", 1184-1187.](#)

[Hines, Andrew / Skoglund, Jan / Kokaram, Anil / Harte, Naomi: "Monitoring the effects of temporal clipping on VoIP speech quality", 1188-1192.](#)

[Yuan, Jiahong: "The spectral dynamics of vowels in Mandarin Chinese", 1193-1197.](#)

[Slaney, Malcolm / Shriberg, Elizabeth / Huang, Jui-Ting: "Pitch-gesture modeling using subband autocorrelation change detection", 1911-1915.](#)

[Gangamohan, P. / Kadiri, Sudarsana Reddy / Yegnanarayana, B.: "Analysis of emotional speech at subsegmental level", 1916-1920.](#)

[Morise, Masanori / Kawahara, Hideki / Ozawa, Kenji: "Periodicity extraction for voiced sounds with multiple periodicity", 1921-1925.](#)

[Taylor, John H. / Milner, Ben: "Modelling and estimation of the fundamental frequency of speech using a hidden Markov model", 1926-1930.](#)

[Pohjalainen, Jouni / Alku, Paavo: "Extended weighted linear prediction using the autocorrelation snapshot — a robust speech analysis method and its application to recognition of vocal emotions", 1931-1935.](#)

[Asgari, Meysam / Shafran, Izhak: "Improving the accuracy and the robustness of harmonic model for pitch estimation", 1936-1940.](#)

[Kane, John / Scherer, Stefan / Morency, Louis-Philippe / Gobl, Christer: "A comparative study of glottal open quotient estimation techniques", 1658-1662.](#)

[Kasess, Christian H. / Kreuzer, Wolfgang: "Estimation of multiple-branch vocal tract models: the influence of prior assumptions", 1663-1667.](#)

[Geiger, Jürgen T. / Eyben, Florian / Schuller, Björn / Rigoll, Gerhard: "Detecting overlapping speech with long short-term memory recurrent neural networks", 1668-1672.](#)

[Sasou, Akira: "Evaluation of fundamental validity in applying AR-HMM with automatic topology generation to pathology voice analysis", 1673-1676.](#)

[Adiga, Nagaraj / Prasanna, S. R. M.: "Significance of instants of significant excitation for source modeling", 1677-1681.](#)

[Arya, Devanshu / Raj, Anant / Hegde, Rajesh M.: "Significance of variable height-bandwidth group delay filters in the spectral reconstruction of speech", 1682-1686.](#)

[Patil, Hemant A. / Patel, Tanvina B.: "Nonlinear prediction of speech signal using volterra-wiener series", 1687-1691.](#)

[Satt, Aharon / Sorin, Alexander / Toledo-Ronen, Orith / Barkan, Oren / Kompatsiaris, Ioannis / Kokonozi, Athina / Tsolaki, Magda: "Evaluation of speech-based protocol for detection of early-stage dementia", 1692-1696.](#)

[Azarov, Elias / Vashkevich, Maxim / Petrovsky, Alexander: "Instantaneous harmonic representation of speech using multicomponent sinusoidal excitation", 1697-1701.](#)

[Babacan, Onur / Drugman, Thomas / d'Alessandro, Nicolas / Henrich, Nathalie / Dutoit, Thierry: "A quantitative comparison of glottal closure instant estimation algorithms on a large variety of singing sounds", 1702-1706.](#)

[Gómez-García, J. A. / Godino-Llorente, Juan Ignacio / Castellanos-Domínguez, G.: "Automatic gender recognition in normal and pathological speech", 1707-1711.](#)

[Cai, Shanqing / Bunnell, H. Timothy / Patel, Rupal: "Unsupervised vocal-tract length estimation through model-based acoustic-to-articulatory inversion", 1712-1716.](#)

[Mirzaei, Sayeh / Van hamme, Hugo / Norouzi, Yaser: "Model order estimation using Bayesian NMF for discovering phone patterns in spoken utterances", 1717-1721.](#)

Language and Dialect Recognition

[Liu, Weiwei / Zhang, Wei-Qiang / Li, Zhiyi / Liu, Jia: "Parallel absolute-relative feature based phonotactic language recognition", 59-63.](#)

[Diez, Mireia / Varona, Amparo / Penagarikano, Mikel / Rodríguez-Fuentes, Luis Javier / Bordel, Germán: "Dimensionality reduction of phone log-likelihood ratio features for spoken language recognition", 64-68.](#)

[Ma, Jeff / Zhang, Bing / Matsoukas, Spyros / Mallidi, Sri Harish / Li, Feipeng / Hermansky, Hynek: "Improvements in language identification on the RATS noisy speech corpus", 69-73.](#)

[Soufifar, Mehdi / Burget, Lukáš / Pichot, Oldřich / Cumani, Sandro / Černocký, Jan: "Regularized subspace n-gram model for phonotactic ivector extraction", 74-78.](#)

[Behravan, Hamid / Hautamäki, Ville / Kinnunen, Tomi: "Foreign accent detection from spoken Finnish using i-vectors", 79-83.](#)

[McLaren, Mitchell / Lawson, Aaron / Lei, Yun / Scheffer, Nicolas: "Adaptive Gaussian backend for robust language identification", 84-88.](#)

ASR — Neural Networks

[Paulik, Matthias: "Lattice-based training of bottleneck feature extraction neural networks", 89-93.](#)

[Gehring, Jonas / Lee, Wonkyum / Kilgour, Kevin / Lane, Ian / Miao, Yajie / Waibel, Alex: "Modular](#)

[combination of deep neural networks for acoustic modeling", 94-98.](#)

[Chang, Shuo-Yiin / Morgan, Nelson: "Informative spectro-temporal bottleneck features for noise-robust speech recognition", 99-103.](#)

[Yan, Zhi-Jie / Huo, Qiang / Xu, Jian: "A scalable approach to using DNN-derived features in GMM-HMM based acoustic modeling for LVCSR", 104-108.](#)

[Rath, Shakti P. / Povey, Daniel / Veselý, Karel / Černocký, Jan: "Improved feature processing for deep neural networks", 109-113.](#)

[Vinyals, Oriol / Morgan, Nelson: "Deep vs. wide: depth on a budget for robust speech recognition", 114-118.](#)

Speech Acoustics

[Braun, Angelika: "An early case of "VOT"", 119-122.](#)

[Fox, Robert Allen / Jacewicz, Ewa / Hart, Jessica: "Pitch pattern variations in three regional varieties of American English", 123-127.](#)

[Liénard, Jean-Sylvain / Barras, Claude: "Fine-grain voice strength estimation from vowel spectral cues", 128-132.](#)

[Godoy, Elizabeth / Mayo, Catherine / Stylianou, Yannis: "Linking loudness increases in normal and lombard speech to decreasing vowel formant separation", 133-137.](#)

[Motoki, Kunitoshi: "Three-dimensional rectangular vocal-tract model with asymmetric wall impedances", 138-142.](#)

[Airaksinen, Manu / Story, Brad / Alku, Paavo: "Quasi closed phase analysis for glottal inverse filtering", 143-147.](#)

Paralinguistic Challenge (Special Session)

[Schuller, Björn / Steidl, Stefan / Batliner, Anton / Vinciarelli, Alessandro / Scherer, Klaus / Ringeval, Fabien / Chetouani, Mohamed / Wenginger, Felix / Eyben, Florian / Marchi, Erik / Mortillaro, Marcello / Salamin, Hugues / Polychroniou, Anna / Valente, Fabio / Kim, Samuel: "The INTERSPEECH 2013 computational paralinguistics challenge: social signals, conflict, emotion, autism", 148-152.](#)

[Janicki, Artur: "Non-linguistic vocalisation recognition based on hybrid GMM-SVM approach", 153-157.](#)

[Oh, Jieun / Cho, Eunjoon / Slaney, Malcolm: "Characteristic contours of syllabic-level units in laughter", 158-162.](#)

[Krikke, Teun F. / Truong, Khiet P.: "Detection of nonverbal vocalizations using Gaussian mixture models: looking for fillers and laughter in conversational speech", 163-167.](#)

[Wagner, Johannes / Lingenfelser, Florian / André, Elisabeth: "Using phonetic patterns for detecting social cues in natural conversations", 168-172.](#)

[Gupta, Rahul / Audhkhasi, Kartik / Lee, Sungbok / Narayanan, Shrikanth: "Paralinguistic event detection from speech using probabilistic time-series smoothing and masking", 173-177.](#)

[An, Gouzhen / Brizan, David Guy / Rosenberg, Andrew: "Detecting laughter and filled pauses using syllable-based features", 178-181.](#)

[Bone, Daniel / Chaspari, Theodora / Audhkhasi, Kartik / Gibson, James / Tsiartas, Andreas / Segbroeck, Maarten Van / Li, Ming / Lee, Sungbok / Narayanan, Shrikanth: "Classifying language-related developmental disorders from speech cues: the promise and the potential confounds", 182-186.](#)

[Kirchhoff, Katrin / Liu, Yuzong / Bilmes, Jeff: "Classification of developmental disorders from speech signals using submodular feature selection", 187-190.](#)

[Asgari, Meysam / Bayestehtashk, Alireza / Shafran, Izhak: "Robust and accurate features for detecting and diagnosing autism spectrum disorders", 191-194.](#)

[Martínez, David / Ribas, Dayana / Lleida, Eduardo / Ortega, Alfonso / Miguel, Antonio: "Suprasegmental information modelling for autism disorder spectrum and specific language impairment classification", 195-199.](#)

[Grèzes, Félix / Richards, Justin / Rosenberg, Andrew: "Let me finish: automatic conflict detection using speaker overlap", 200-204.](#)

[Sethu, Vidhyasaharan / Epps, Julien / Ambikairajah, Eliathamby / Li, Haizhou: "GMM based speaker variability compensated system for interspeech 2013 compare emotion challenge", 205-209.](#)

[Räsänen, Okko / Pohjalainen, Jouni: "Random subset feature selection in automatic recognition of developmental disorders, affective states, and level of conflict from speech", 210-214.](#)

[Lee, Hung-yi / Hu, Ting-yao / Jing, How / Chang, Yun-Fan / Tsao, Yu / Kao, Yu-Cheng / Pao, Tsang-Long: "Ensemble of machine learning and acoustic segment model techniques for speech emotion and autism spectrum disorders recognition", 215-219.](#)

[Gosztolya, Gábor / Busa-Fekete, Róbert / Tóth, László: "Detecting autism, emotions and social signals using adaboost", 220-224.](#)

Perception of Prosody

[Niebuhr, Oliver: "Resistance is futile — the intonation between continuation rise and calling contour in German", 225-229.](#)

[Mixdorff, Hansjörg / Niebuhr, Oliver: "The influence of F0 contour continuity on prominence perception", 230-234.](#)

[Smith, Caroline L. / Edmunds, Paul: "Native English listeners' perceptions of prosody in L1 and L2 reading", 235-238.](#)

[Tsurutani, Chiharu / Luo, Dean: "Naturalness judgement of L2 Mandarin Chinese — does timing matter?", 239-242.](#)

[Aalto, Daniel / Šimko, Juraj / Vainio, Martti: "Language background affects the strength of the pitch bias in a duration discrimination task", 243-247.](#)

[Zellers, Margaret: "Pitch and lengthening as cues to turn transition in Swedish", 248-252.](#)

[Bissiri, Maria Paola / Zellers, Margaret: "Perception of glottalization in varying pitch contexts across languages", 253-257.](#)

[Walsh, Michael / Schweitzer, Katrin / Schauffler, Nadja: "Exemplar-based pitch accent categorisation using the generalized context model", 258-262.](#)

[Braun, Bettina / Asano, Yuki: "Double contrast is signalled by prenuclear and nuclear accent types alone, not by f0-plateaux", 263-266.](#)

[Correia, Susana / Frota, Sónia / Butler, Joseph / Vigário, Marina: "Word stress perception in European Portuguese", 267-271.](#)

[Arnold, Denis / Wagner, Petra / Baayen, R. Harald: "Using generalized additive models and random forests to model prosodic prominence in German", 272-276.](#)

[Pfitzinger, Hartmut R. / Mixdorff, Hansjörg: "Perceiving speech rate differences between natural and time-scale modified utterances", 277-281.](#)

Prosody, Phonetics of Language Varieties

[Barbosa, Plínio A. / Eriksson, Anders / Åkesson, Joel: "On the robustness of some acoustic parameters for signalling word stress across styles in Brazilian Portuguese", 282-286.](#)

[Lyu, Shao-ren / Pan, Ho-hsien: "Reexamine the sandhi rules and the merging tones in hakka language", 287-290.](#)

[Tabain, Marija / Beare, Richard / Butcher, Andrew: "A preliminary spectral analysis of palatal and velar stop bursts in pitjantjatjara", 291-295.](#)

[Mahanta, Shakuntala / Twaha, A. I.: "Presentational focus realisation in nalbaria variety of assamese", 296-299.](#)

[Cruz, Marisa / Frota, Sónia: "On the relation between intonational phrasing and pitch accent distribution. evidence from European Portuguese varieties", 300-304.](#)

[Nemoto, Rena / Adda-Decker, Martine: "How are word-final schwas different in the north and south of france?", 305-309.](#)

[Ashby, Simone / Barbosa, Sílvia / Silva, Catarina / Fumo, Paulino / Ferreira, José Pedro: "Modeling postcolonial language varieties: challenges and lessons learned from mozambican Portuguese", 310-314.](#)

[Sahkai, Heete / Kalvik, Mari-Liis / Mihkla, Meelis: "Prosody of contrastive focus in estonian", 315-319.](#)

[Kisler, Thomas / Reichel, Uwe D.: "Exploring the connection of acoustic and distinctive features", 320-324.](#)

[Cunha, Conceição / Harrington, Jonathan / Hoole, Phil: "A physiological analysis of the tense/lax vowel contrast in two varieties of German", 325-329.](#)

[Meister, Einar / Meister, Lya: "Production of estonian quantity contrasts by native speakers of Finnish", 330-334.](#)

[Meynadier, Yohann / Gaydina, Yulia: "Aerodynamic and durational cues of phonological voicing in whisper", 335-339.](#)

[Reichel, Uwe D.: "Information theoretic syllable structure and its relation to the c-center effect", 340-344.](#)

[Andreeva, Bistra / Barry, William / Koreman, Jacques: "The bulgarian stressed and unstressed vowel system. a corpus study", 345-348.](#)

Speech Synthesis I. II

[Prom-on, Santitham / Birkholz, Peter / Xu, Yi: "Training an articulatory synthesizer with continuous acoustic data", 349-353.](#)

[Kiss, Géza / Santen, Jan P. H. van: "Estimating speaker-specific intonation patterns using the linear alignment model", 354-358.](#)

[Sung, June Sig / Hong, Doo Hwa / Koo, Hyun Woo / Kim, Nam Soo: "Factored maximum likelihood kernelized regression for HMM-based singing voice synthesis", 359-363.](#)

[Takamichi, Shinnosuke / Toda, Tomoki / Shiga, Yoshinori / Sakti, Sakriani / Neubig, Graham / Nakamura, Satoshi: "Improvements to HMM-based speech synthesis based on parameter generation with rich context models", 364-368.](#)

[Nakashika, Toru / Takashima, Ryoichi / Takiguchi, Tetsuya / Ariki, Yasuo: "Voice conversion in high-order eigen space using deep belief nets", 369-372.](#)

[Silén, Hanna / Nurminen, Jani / Helander, Elina / Gabbouj, Moncef: "Voice conversion for non-parallel datasets using dynamic kernel partial least squares regression", 373-377.](#)

[Nose, Takashi / Kanemoto, Misa / Koriyama, Tomoki / Kobayashi, Takao: "A style control technique for singing voice synthesis based on multiple-regression HSMM", 378-382.](#)

[Hinterleitner, Florian / Norrenbrock, Christoph R. / Möller, Sebastian / Heute, Ulrich: "Predicting the quality of text-to-speech systems from a large-scale feature set", 383-387.](#)

[Nurminen, Jani / Silén, Hanna / Gabbouj, Moncef: "Speaker-specific retraining for enhanced compression of unit selection text-to-speech databases", 388-391.](#)

[Huckvale, Mark / Leff, Julian / Williams, Geoff: "Avatar therapy: an audio-visual dialogue system for treating auditory hallucinations", 392-396.](#)

[Muthukumar, Prasanna Kumar / Black, Alan W. / Bunnell, H. Timothy: "Optimizations and fitting procedures for the liljencrants-fant model for statistical parametric speech synthesis", 397-401.](#)

[Hovy, Dirk / Anumanchipalli, Gopala Krishna / Parlikar, Alok / Vaughn, Caroline / Lammert, Adam / Hovy, Eduard / Black, Alan W.: "Analysis and modeling of "focus" in context", 402-406.](#)

[Ishihara, Tatsuma / Kameoka, Hirokazu / Yoshizato, Kota / Saito, Daisuke / Sagayama, Shigeki: "Probabilistic speech \$F_0\$ contour model incorporating statistical vocabulary model of phrase-accent command sequence", 1017-1021.](#)

[McLoughlin, Ian Vince / Li, Jingjie / Song, Yan: "Reconstruction of continuous voiced speech from whispers", 1022-1026.](#)

[Niekerk, Daniel R. van / Barnard, Etienne: "Generating fundamental frequency contours for speech synthesis in yorùbá", 1027-1031.](#)

[Azarov, Elias / Vashkevich, Maxim / Likhachov, Denis / Petrovsky, Alexander: "Real-time voice conversion using artificial neural networks with rectified linear units", 1032-1036.](#)

[Kriyakien, Oraphan / Hirose, Keikichi / Minematsu, Nobuaki: "Generation of fundamental frequency contours for Thai speech synthesis using tone nucleus model", 1037-1041.](#)

[Chen, Langzhou / Braunschweiler, Norbert: "Unsupervised speaker and expression factorization for multi-speaker expressive synthesis of ebooks", 1042-1046.](#)

[Nakajima, Hideharu / Mizuno, Hideyuki / Yoshioka, Osamu / Takahashi, Satoshi: "Which resemblance is useful to predict phrase boundary rise labels for Japanese expressive text-to-speech synthesis, numerically-expressed stylistic or distribution-based semantic?", 1047-1051.](#)

[Ni, Jinfu / Shiga, Yoshinori / Hori, Chiori / Kidawara, Yutaka: "A targets-based superpositional model of fundamental frequency contours applied to HMM-based speech synthesis", 1052-1056.](#)

[Kobayashi, Kazuhiro / Doi, Hironori / Toda, Tomoki / Nakano, Tomoyasu / Goto, Masataka / Neubig, Graham / Sakti, Sakriani / Nakamura, Satoshi: "An investigation of acoustic features for singing voice conversion based on perceptual age", 1057-1061.](#)

[Bollepalli, Bajibabu / Raitio, Tuomo / Alku, Paavo: "Effect of MPEG audio compression on HMM-based speech synthesis", 1062-1066.](#)

[Doi, Hironori / Toda, Tomoki / Nakano, Tomoyasu / Goto, Masataka / Nakamura, Satoshi: "Evaluation of a singing voice conversion method based on many-to-many eigenvoice conversion", 1067-1071.](#)

[Koriyama, Tomoki / Nose, Takashi / Kobayashi, Takao: "Statistical nonparametric speech synthesis using sparse Gaussian processes", 1072-1076.](#)

[Mohammadi, Amir / Demiroglu, Cenk: "Hybrid nearest-neighbor/cluster adaptive training for rapid speaker adaptation in statistical speech synthesis systems", 1077-1081.](#)

[Cabral, João P.: "Uniform concatenative excitation model for synthesising speech without voiced/unvoiced classification", 1082-1086.](#)

Perception, Dialectal Differences

[Tran, Thi Anh Xuan / Nguyen, Viet Son / Castelli, Eric / Carré, René: "Production and perception of pseudo-V1CV2 outside the vowel triangle: speech illusion effects", 407-411.](#)

[Candea, Maria / Adda-Decker, Martine / Lamel, Lori: "Recent evolution of non-standard consonantal variants in French broadcast news", 412-416.](#)

[Zimmerer, Frank / Yasuda, Rei / Reetz, Henning: "Architekt or archtekt? perception of devoiced vowels produced by Japanese speakers of German", 417-420.](#)

[Plummer, Andrew R. / Ménard, Lucie / Munson, Benjamin / Beckman, Mary E.: "Comparing vowel category response surfaces over age-varying maximal vowel spaces within and across language communities", 421-425.](#)

[Babel, Molly / McGuire, Grant: "Perceived vocal attractiveness across dialects is similar but not uniform", 426-430.](#)

[Wang, Hongyan / Heuven, Vincent J. van: "Mutual intelligibility of American, Chinese and Dutch-accented speakers of English tested by SUS and SPIN sentences", 431-435.](#)

Speech Enhancement — Single Channel

[Lu, Xugang / Tsao, Yu / Matsuda, Shigeki / Hori, Chiori: "Speech enhancement based on deep denoising autoencoder", 436-440.](#)

[Saruwatari, Hiroshi / Kanehara, Suzumi / Miyazaki, Ryoichi / Shikano, Kiyohiro / Kondo, Kazunobu: "Musical noise analysis for Bayesian minimum mean-square error speech amplitude estimators based on higher-order statistics", 441-445.](#)

[Lyubimov, Nikolay / Kotov, Mikhail: "Non-negative matrix factorization with linear constraints for single-channel speech enhancement", 446-450.](#)

[Tseng, Hung-Wei / Vishnubhotla, Srikanth / Hong, Mingyi / Wang, Xiangfeng / Xiao, Jinjun / Luo, Zhi-Quan / Zhang, Tao: "A single channel speech enhancement approach by combining statistical criterion and multi-frame sparse dictionary learning", 451-455.](#)

[Mirbagheri, Majid / Xu, Yanbo / Akram, Sahar / Shamma, Shihab: "Speech enhancement using convolutive nonnegative matrix factorization with cosparsity regularization", 456-459.](#)

[McCallum, Matthew / Guillemin, Bernard: "Joint stochastic-deterministic wiener filtering with recursive Bayesian estimation of deterministic speech", 460-464.](#)

Dialog Modeling

[Knuuttila, Juho / Räsänen, Okko / Laine, Unto K.: "Automatic self-supervised learning of associations between speech and text", 465-469.](#)

[Daubigny, Lucie / Geist, Matthieu / Pietquin, Olivier: "Particle swarm optimisation of spoken dialogue system strategies", 470-474.](#)

[Lison, Pierre: "Model-based Bayesian reinforcement learning for dialogue management", 475-479.](#)

[Ghigi, Fabrizio / Torres, María Inés / Justo, Raquel / Benedí, José-Miguel: "Evaluating spoken dialogue models under the interactive pattern recognition framework", 480-484.](#)

[Chen, Yun-Nung / Metze, Florian: "Multi-layer mutually reinforced random walk with hidden parameters for improved multi-party meeting summarization", 485-489.](#)

[Su, Pei-hao / Wang, Yow-Bang / Wen, Tsung-Hsien / Yu, Tien-han / Lee, Lin-shan: "A recursive dialogue game framework with optimal Policy offering personalized computer-assisted language learning", 490-494.](#)

ASR — Lexical, Prosodic and Cross/Multi-Lingual

[Hahn, Stefan / Lehnen, Patrick / Wiesler, Simon / Schlüter, Ralf / Ney, Hermann: "Improving LVCSR with hidden conditional random fields for grapheme-to-phoneme conversion", 495-499.](#)

[Do, Van Hai / Xiao, Xiong / Chng, Eng Siong / Li, Haizhou: "Context-dependent phone mapping for LVCSR of under-resourced languages", 500-504.](#)

[Rasipuram, Ramya / Magimai-Doss, Mathew: "Improving grapheme-based ASR by probabilistic lexical modeling approach", 505-509.](#)

[Motlicek, Petr / Imseng, David / Garner, Philip N.: "Crosslingual tandem-SGMM: exploiting out-of-language data for acoustic model and feature level adaptation", 510-514.](#)

[Vu, Ngoc Thang / Schultz, Tanja: "Multilingual multilayer perceptron for rapid language adaptation between and across language families", 515-519.](#)

[Rosenberg, Andrew: "Modeling prosodic sequences with k-means and dirichlet process GMMs", 520-524.](#)

Phonetic Convergence

[Schweitzer, Antje / Lewandowski, Natalie: "Convergence of articulation rate in spontaneous speech", 525-529.](#)

[Pardo, Jennifer S.: "Phonetic convergence in shadowed speech: a comparison of perceptual and acoustic measures", 530-534.](#)

[Włodarczak, Marcin / Šimko, Juraj / Wagner, Petra: "Pitch and duration as a basis for entrainment of overlapped speech onsets", 535-538.](#)

[Bonin, Francesca / Looze, Céline De / Ghosh, Sucheta / Gilmartin, Emer / Vogel, Carl / Polychroniou, Anna / Salamin, Hugues / Vinciarelli, Alessandro / Campbell, Nick: "Investigating fine temporal dynamics of prosodic and lexical accommodation", 539-543.](#)

[Kim, Jeesun / Demirdjian, Ruben / Davis, Chris: "Spontaneous and explicit speech imitation", 544-547.](#)

[Podlipský, Václav Jonáš / Šimáčková, Šárka / Chládková, Kateřina: "Imitation interacts with one's second-language phonology but it does not operate cross-linguistically", 548-552.](#)

Speech Production, Acquisition and Development I, II

[Hsieh, Po-jen: "Prosodic markings of semantic predictability in taiwan Mandarin", 553-557.](#)

[Hoffmann, Rüdiger / Mehnert, Dieter / Dietzel, Rolf: "How did it work? historic phonetic devices explained by coeval photographs", 558-562.](#)

[Kohtz, Lea S. / Niebuhr, Oliver: "Eliciting speech with sentence lists — a critical evaluation with special emphasis on segmental anchoring", 563-567.](#)

[Wang, Yuquang / Dang, Jianwu / Chen, Xi / Wei, Jianguo / Wang, Hongcui / Honda, Kiyoshi: "An MRI-based acoustic study of Mandarin vowels", 568-571.](#)

[Hirst, Daniel: "Melody metrics for prosodic typology: comparing English, French and Chinese", 572-576.](#)

[Proctor, Michael / Goldstein, Louis / Lammert, Adam / Byrd, Dani / Toutios, Asterios / Narayanan, Shrikanth: "Velic coordination in French nasals: a real-time magnetic resonance imaging study",](#)

[577-581.](#)

[Huckvale, Mark / Sharma, Amrita: "Learning to imitate adult speech with the KLAIR virtual infant", 582-586.](#)

[Lucero, Jorge C. / Schoentgen, Jean / Behlau, Mara: "Physics-based synthesis of disordered voices", 587-591.](#)

[d'Apolito, Sonia / Fivela, Barbara Gili: "Place assimilation and articulatory strategies: the case of sibilant sequences in French as L1 and L2", 592-596.](#)

[Samlowski, Barbara / Wagner, Petra / Möbius, Bernd: "Effects of lexical class and lemma frequency on German homographs", 597-601.](#)

[Lancia, Leonardo / Avelino, Heriberto / Voigt, Daniel: "Measuring laryngealization in running speech: interaction with contrastive tones in yalálag zapotec", 602-606.](#)

[Rusaw, Erin: "A neural oscillator model of speech timing and rhythm", 607-611.](#)

[Wong, Nicole / Fu, Maojing / Liang, Zhi-Pei / Shosted, Ryan K. / Sutton, Bradley P.: "Observations of perseverative coarticulation in lateral approximants using MRI", 612-616.](#)

[Fujimoto, Masako / Kitamura, Tatsuya / Hatano, Hiroaki / Fujimoto, Ichiro: "Timing differences in articulation between voiced and voiceless stop consonants: an analysis of cine-MRI data", 955-958.](#)

[Lammert, Adam / Ramanarayanan, Vikram / Proctor, Michael / Narayanan, Shrikanth: "Vocal tract cross-distance estimation from real-time MRI using region-of-interest analysis", 959-962.](#)

[Arrabothu, Apoorv Reddy / Chennupati, Nivedita / Yegnanarayana, B.: "Syllable nuclei detection using perceptually significant features", 963-967.](#)

[Hsieh, Fang-Ying / Goldstein, Louis / Byrd, Dani / Narayanan, Shrikanth: "Truncation of pharyngeal gesture in English diphthong \[aɪ\]", 968-972.](#)

[Yang, Zhaojun / Ramanarayanan, Vikram / Byrd, Dani / Narayanan, Shrikanth: "The effect of word frequency and lexical class on articulatory-acoustic coupling", 973-977.](#)

[Yamakawa, Kimiko / Amano, Shigeaki: "Discrimination between fricative and affricate in Japanese using time and spectral domain variables", 978-981.](#)

[Drozdova, Polina / Cucchiaroni, Catia / Strik, Helmer: "L2 syntax acquisition: the effect of oral and written computer assisted practice", 982-986.](#)

[Signorello, Rosario / Demolin, Didier: "The physiological use of the charismatic voice in Political speech", 987-991.](#)

[Rose, Ralph L.: "Crosslinguistic corpus of hesitation phenomena: a corpus for investigating first and second language speech performance", 992-996.](#)

[Preuß, Simon / Neuschaefer-Rube, Christiane / Birkholz, Peter: "Real-time control of a 2d animation model of the vocal tract using optopalatography", 997-1001.](#)

[Siddins, Jessica / Harrington, Jonathan / Kleber, Felicitas / Reubold, Ulrich: "The influence of accentuation and polysyllabicity on compensatory shortening in German", 1002-1006.](#)

[Ding, Hongwei / Hoffmann, Rüdiger: "An investigation of vowel epenthesis in Chinese learners' production of German consonants", 1007-1011.](#)

[Richmond, Korin / Ling, Zhen-Hua / Yamagishi, Junichi / Uría, Benigno: "On the evaluation of inversion mapping performance in the acoustic domain", 1012-1016.](#)

General Topics in ASR

[Gupta, Vishwa / Boulianne, Gilles: "Comparing computation in Gaussian mixture and neural network based large-vocabulary speech recognition", 617-621.](#)

[Stein, Daniel / Schwenninger, Jochen / Stadtschnitzer, Michael: "Simultaneous perturbation stochastic approximation for automatic speech recognition", 622-626.](#)

[Sheffield, David / Anderson, Michael / Lee, Yunsup / Keutzer, Kurt: "Hardware/software codesign for mobile speech recognition", 627-631.](#)

[Shi, Yangyang / Larson, Martha / Wiggers, Pascal / Jonker, Catholijn M.: "Exploiting the succeeding words in recurrent neural network language models", 632-636.](#)

[Torbati, Amir Hossein Harati Nejad / Picone, Joseph / Sobel, Marc: "Speech acoustic unit segmentation using hierarchical dirichlet processes", 637-641.](#)

[Georges, Munir / Kanthak, Stephan / Klakow, Dietrich: "Transducer-based speech recognition with dynamic language models", 642-646.](#)

[Kubo, Yotaro / Hori, Takaaki / Nakamura, Atsushi: "A method for structure estimation of weighted finite-state transducers and its application to grapheme-to-phoneme conversion", 647-651.](#)

[Jouvet, Denis / Fohr, Dominique: "Combining forward-based and backward-based decoders for improved speech recognition performance", 652-656.](#)

[Siohan, Olivier / Bacchiani, Michiel: "ivector-based acoustic data selection", 657-661.](#)

[Lei, Xin / Senior, Andrew / Gruenstein, Alexander / Sorensen, Jeffrey: "Accurate and compact large vocabulary speech recognition on mobile devices", 662-665.](#)

[Allauzen, Cyril / Riley, Michael: "Pre-initialized composition for large-vocabulary speech recognition", 666-670.](#)

[Kurniawati, Evelyn / George, Sapna: "Speaker dependent activation keyword detector based on GMM-UBM", 671-674.](#)

[Sak, Haşim / Sung, Yun-hsuan / Beaufays, Françoise / Allauzen, Cyril: "Written-domain language modeling for automatic speech recognition", 675-679.](#)

Voice Activity Detection and Speech Segmentation

[Versteegh, Maarten / Bosch, Louis ten: "Detecting words in speech using linear separability in a bag-of-events vector space", 680-684.](#)

[Burlick, Matt / Dimitriadis, Dimitrios / Zavesky, Eric: "On the improvement of multimodal voice activity detection", 685-689.](#)

[Geiger, Jürgen T. / Eyben, Florian / Evans, Nicholas / Schuller, Björn / Rigoll, Gerhard: "Using linguistic information to detect overlapping speech", 690-694.](#)

[Ye, Jiaying / Kobayashi, Takumi / Murakawa, Masahiro / Higuchi, Tetsuya: "Incremental acoustic subspace learning for voice activity detection using harmonicity-based features", 695-699.](#)

[Chung, Hoon / Lee, SungJoo / Lee, YunKeun: "Endpoint detection using weighted finite state transducer", 700-703.](#)

[Segbroeck, Maarten Van / Tsiartas, Andreas / Narayanan, Shrikanth: "A robust frontend for VAD: exploiting contextual, discriminative and spectral cues of human voice", 704-708.](#)

[Graciarena, Martin / Alwan, Abeer / Ellis, Dan / Franco, Horacio / Ferrer, Luciana / Hansen, John H. L. / Janin, Adam / Lee, Byung-Suk / Lei, Yun / Mitra, Vikramjit / Morgan, Nelson / Sadjadi, Seyed Omid / Tsai, T. J. / Scheffer, Nicolas / Tan, Lee Ngee / Williams, Benjamin: "All for one: feature combination for highly channel-degraded speech activity detection", 709-713.](#)

[Coz, Maxime Le / Pinquier, Julien / André-Obrecht, Régine: "Superposed speech localisation using frequency tracking", 714-717.](#)

[Tsiartas, Andreas / Chaspari, Theodora / Katsamanis, Nassos / Ghosh, Prasanta Kumar / Li, Ming / Segbroeck, Maarten Van / Potamianos, Alexandros / Narayanan, Shrikanth: "Multi-band long-term signal variability features for robust voice activity detection", 718-722.](#)

[Lezzoum, Narimene / Gagnon, Ghyslain / Voix, Jérémie: "A low-complexity voice activity detector for smart hearing protection of hyperacusic persons", 723-727.](#)

[Ryant, Neville / Liberman, Mark / Yuan, Jiahong: "Speech activity detection on youtube using deep neural networks", 728-731.](#)

[Germain, François G. / Sun, Dennis L. / Mysore, Gautham J.: "Speaker and noise independent voice activity detection", 732-736.](#)

[Tsai, T. J. / Janin, Adam: "Confidence-based scoring: a useful diagnostic tool for detection tasks", 737-741.](#)

[Kanai, Yasuaki / Morita, Shota / Unoki, Masashi: "Concurrent processing of voice activity detection and noise reduction using empirical mode decomposition and modulation spectrum analysis", 742-746.](#)

Show and Tell Sessions 1-3

[Al Moubayed, Samer / Beskow, Jonas / Skantze, Gabriel: "The furhat social companion talking head", 747-749.](#)

[Gelin, Rodolphe / Barbieri, Gabriele: "Audition: the most important sense for humanoid robots?", 750-751.](#)

[Hueber, Thomas: "Ultraspeech-player: intuitive visualization of ultrasound articulatory data for speech therapy and pronunciation training", 752-753.](#)

[Oh, Jieun / Wang, Ge: "Laughter modulation: from speech to speech-laugh", 754-755.](#)

[Bikel, Daniel M. / Hall, Keith B.: "Refr: an open-source reranker framework", 756-758.](#)

[Sosi, Alessandro / Brugnara, Fabio / Cristoforetti, Luca / Matassoni, Marco / Ravanelli, Mirco / Omologo, Maurizio: "Embedding speech recognition to control lights", 759-760.](#)

[Meltzner, Geoffrey S. / Heaton, James T. / Deng, Yunbin: "The MUTE silent speech recognition system", 761-763.](#)

[Scobbie, James M. / Turk, Alice / Geng, Christian / King, Simon / Lickley, Robin / Richmond, Korin: "The edinburgh speech production facility doubletalk corpus", 764-766.](#)

[Sityaev, Dmitry / Hotz, Jonathan / Snitkovsky, Vadim: "Lexee: a cloud-based platform for building and deploying voice-enabled mobile applications", 767-769.](#)

[Ouni, Slim: "Visualizing articulatory data with VisArtico", 770-772.](#)

[Soury, Mariette / Gossart, Clément / Adda-Decker, Martine / Devillers, Laurence: "A tool to elicit and collect multicultural and multimodal laughter", 773-774.](#)

[Schleicher, Robert / Westermann, Tilo / Li, Jinjin / Lawitschka, Moritz / Mateev, Benjamin / Reichmuth, Ralf / Möller, Sebastian: "Design of a mobile app for interspeech conferences: towards an open tool for the spoken language community", 775-777.](#)

[Metze, Florian / Fosler-Lussier, Eric / Bates, Rebecca: "The speech recognition virtual kitchen", 1858-1860.](#)

[Chen, John / Wen, Shufei / Sridhar, Vivek Kumar Rangarajan / Bangalore, Srinivas: "Multilingual web](#)

[conferencing using speech-to-speech translation", 1861-1863.](#)

[Ferragne, Emmanuel / Flavier, Sébastien / Fressard, Christian: "ROCme! software for the recording and management of speech corpora", 1864-1865.](#)

[Burkhardt, Felix: "Voice search in mobile applications with the rootvole framework", 1866-1868.](#)

[Ill, John S. Novak / Archer, Jason / Shafiro, Valeriy / Kenyon, Robert / Leigh, Jason: "On-line audio dilation for human interaction", 1869-1871.](#)

[Mowlae, Pejman / Watanabe, Mario Kaoru / Saeidi, R.: "Phase-aware single-channel speech enhancement", 1872-1874.](#)

[Hirano, Hiroko / Nakamura, Ibuki / Minematsu, Nobuaki / Suzuki, Masayuki / Nakagawa, Chieko / Nakamura, Noriko / Tagawa, Yukinori / Hirose, Keikichi / Hashimoto, Hiroya: "A free online accent and intonation dictionary for teachers and learners of Japanese", 1875-1876.](#)

[Astrinaki, Maria / Yamagishi, Junichi / King, Simon / d'Alessandro, Nicolas / Dutoit, Thierry: "Reactive accent interpolation through an interactive map application", 1877-1878.](#)

[Berkling, Kay: "A non-experts user interface for obtaining automatic diagnostic spelling evaluations for learners of the German writing system", 1879-1881.](#)

[Soury, Mariette / Gossart, Clément / Adda-Decker, Martine / Devillers, Laurence: "A tool to elicit and collect multicultural and multimodal laughter".](#)

[Schleicher, Robert / Westermann, Tilo / Li, Jinjin / Lawitschka, Moritz / Mateev, Benjamin / Reichmuth, Ralf / Möller, Sebastian: "Design of a mobile app for interspeech conferences: towards an open tool for the spoken language community".](#)

[Clark, Robert A. J.: "Simple⁴all", 2654-2656.](#)

[Pointeau, Grégoire / Petit, Maxime / Hinaut, Xavier / Gibert, Guillaume / Dominey, Peter Ford: "On-line learning of lexical items and grammatical constructions via speech, gaze and action-based human-robot interaction", 2657-2659.](#)

[Miyakoda, Haruko: "Development of a pronunciation training system based on auditory-visual elements", 2660-2661.](#)

[Azarov, Elias / Vashkevich, Maxim / Likhachov, Denis / Petrovsky, Alexander: "Real-time and non-real-time voice conversion systems with web interfaces", 2662-2663.](#)

[Csala, E. / Németh, G. / Zainkó, Cs.: "Application of the NAO humanoid robot in the treatment of bone marrow-transplanted children \(demo\)", 2664-2666.](#)

[Wan, Vincent / Anderson, Robert / Blokland, Art / Braunschweiler, Norbert / Chen, Langzhou / Kolluru, BalaKrishna / Latorre, Javier / Maia, Ranniery / Stenger, Björn / Yanagisawa, Kayoko / Stylianou, Yannis / Akamine, Masami / Gales, M. J. F. / Cipolla, Roberto: "Photo-realistic expressive text to talking head synthesis", 2667-2669.](#)

[Maddieson, Ian / Flavier, Sébastien / Marsico, Egidio / Pellegrino, François: "Demonstration of LAPSyd: lyon-albuquerque phonological systems database", 2670-2671.](#)

[Boyce, Suzanne / Speights, Marisha / Ishikawa, Keiko / MacAuslan, Joel: "Speechmark acoustic landmark tool: application to voice pathology", 2672-2674.](#)

[Catanese, Laurence / Souviraà-Labastie, Nathan / Qu, Bingqing / Campion, Sébastien / Gravier, Guillaume / Vincent, Emmanuel / Bimbot, Frédéric: "MODIS: an audio motif discovery software", 2675-2677.](#)

Discourse, Intonation, Prosody

[Eriksson, Anders / Barbosa, Plínio A. / Åkesson, Joel: "The acoustics of word stress in Swedish: a function of stress level, speaking style and word accent", 778-782.](#)

[Michelas, Amandine / Portes, Cristel / Champagne-Lavau, Maud: "Intonational contrasts encode speaker's certainty in neutral vs. incredulity declarative questions in French", 783-787.](#)

[Ishimoto, Yuichi / Enomoto, Mika / Iida, Hitoshi: "Prosodic changes pre-announcing a syntactic completion point in Japanese utterance", 788-792.](#)

[Simard, Candide: "Prosodic encoding of declarative, interrogative and imperative sentences in jaminjung, a language of australia", 793-797.](#)

[Vullingshs, Anne / Goudbeek, Martijn / Krahmer, Emiel: "Crosslinguistic priming in interactive reference: evidence for conceptual alignment in speech production", 798-802.](#)

[Kousidis, Spyros / Schlangen, David / Skopeteas, Stavros: "A cross-linguistic study on turn-taking and temporal alignment in verbal interaction", 803-807.](#)

Source Separation

[Grais, Emad M. / Erdogan, Hakan: "Discriminative nonnegative dictionary learning using cross-coherence penalties for single channel source separation", 808-812.](#)

[Kim, Han-Gyu / Jang, Gil-Jin / Park, Jeong-Sik / Oh, Yung-Hwan: "Monaural speech segregation based on pitch track correction using an ensemble kalman filter", 813-816.](#)

[Tran, Thuy N. / Cowley, William / Pollok, André: "Voice activity classification for automatic bi-speaker adaptive beamforming in speech separation", 817-821.](#)

[Kinoshita, Keisuke / Souden, Mehrez / Nakatani, Tomohiro: "Blind source separation using spatially distributed microphones based on microphone-location dependent source activities", 822-826.](#)

[Barker, Tom / Virtanen, Tuomas: "Non-negative tensor factorisation of modulation spectrograms for monaural sound source separation", 827-831.](#)

[Watanabe, Mario Kaoru / Mowlaee, Pejman: "Iterative sinusoidal-based partial phase reconstruction in single-channel source separation", 832-836.](#)

Paralinguistic Information I, II

[Yao, Xiao / Jitsuhiro, Takatoshi / Miyajima, Chiyomi / Kitaoka, Norihide / Takeda, Kazuya: "Classification of speech under stress by modeling the aerodynamics of the laryngeal ventricle", 837-841.](#)

[Rakov, Rachel / Rosenberg, Andrew: "'sure, i did the right thing": a system for sarcasm detection in speech", 842-846.](#)

[Scherer, Stefan / Stratou, Giota / Gratch, Jonathan / Morency, Louis-Philippe: "Investigating voice quality as a speaker-independent indicator of depression and PTSD", 847-851.](#)

[Pellegrini, Thomas / Hämäläinen, Annika / Mareuil, Philippe Boula de / Tjalve, Michael / Trancoso, Isabel / Candeias, Sara / Dias, Miguel Sales / Braga, Daniela: "A corpus-based study of elderly and young speakers of European Portuguese: acoustic correlates and their impact on speech recognition performance", 852-856.](#)

[Cummins, Nicholas / Epps, Julien / Sethu, Vidhyasaharan / Breakspear, Michael / Goecke, Roland: "Modeling spectral variability for the classification of depressed speech", 857-861.](#)

[Pérez-Rosas, Verónica / Mihalcea, Rada: "Sentiment analysis of online spoken reviews", 862-866.](#)

[Shepstone, Sven Ewan / Tan, Zheng-Hua / Jensen, Søren Holdt: "Demographic recommendation by means of group profile elicitation using speaker age and gender recognition", 2827-2831.](#)

[Malandrakis, Nikolaos / Sundaram, Shiva / Potamianos, Alexandros: "Affective classification of generic audio clips using regression models", 2832-2836.](#)

[Jeon, Je Hun / Le, Duc / Xia, Rui / Liu, Yang: "A preliminary study of cross-lingual emotion recognition from speech: automatic classification versus human perception", 2837-2840.](#)

[Han, Wenjing / Li, Haifeng / Ruan, Huabin / Ma, Lin / Sun, Jiayin / Schuller, Björn: "Active learning for dimensional speech emotion recognition", 2841-2845.](#)

[Kelly, Finnian / Harte, Naomi: "Auditory detectability of vocal ageing and its effect on forensic automatic speaker recognition", 2846-2850.](#)

[Alam, Firoj / Riccardi, G.: "Comparative study of speaker personality traits recognition in conversational and broadcast news speech", 2851-2855.](#)

[Zhang, Zixing / Deng, Jun / Marchi, Erik / Schuller, Björn: "Active learning by label uncertainty for acoustic emotion recognition", 2856-2860.](#)

[Xiao, Bo / Georgiou, Panayiotis G. / Imel, Zac E. / Atkins, David C. / Narayanan, Shrikanth: "Modeling therapist empathy and vocal entrainment in drug addiction counseling", 2861-2865.](#)

[Miyazaki, Chiaki / Higashinaka, Ryuichiro / Makino, Toshiro / Matsuo, Yoshihiro: "Estimating callers' levels of knowledge in call center dialogues", 2866-2870.](#)

[Arias, Juan Pablo / Busso, Carlos / Yoma, Néstor Becerra: "Energy and F0 contour modeling with functional data analysis for emotional speech detection", 2871-2875.](#)

[Mishra, Taniya / Dimitriadis, Dimitrios: "Incremental emotion recognition", 2876-2880.](#)

[Haniççi, Cemal / Kinnunen, Tomi / Rajan, Padmanabhan / Pohjalainen, Jouni / Alku, Paavo / Ertaş, Figen: "Comparison of spectrum estimators in speaker verification: mismatch conditions induced by vocal effort", 2881-2885.](#)

[Xia, Rui / Liu, Yang: "Using denoising autoencoder for emotion recognition", 2886-2889.](#)

ASR — Robustness Against Noise I-III

[Abdelaziz, Ahmed Hussen / Zeiler, Steffen / Kolossa, Dorothea: "Using twin-HMM-based audio-visual speech enhancement as a front-end for robust audio-visual speech recognition", 867-871.](#)

[Gibson, James / Segbroeck, Maarten Van / Ortega, Antonio / Georgiou, Panayiotis G. / Narayanan, Shrikanth: "Spectro-temporal directional derivative features for automatic speech recognition", 872-875.](#)

[Xiao, Xiong / Chng, Eng Siong / Li, Haizhou: "Attribute-based histogram equalization \(HEQ\) and its adaptation for robust speech recognition", 876-880.](#)

[Joshi, Vikas / Prasad, N. Vishnu / Umesh, S.: "Modified cepstral mean normalization — transforming to utterance specific non-zero mean", 881-885.](#)

[Mitra, Vikramjit / Franco, Horacio / Graciarena, Martin: "Damped oscillator cepstral coefficients for robust speech recognition", 886-890.](#)

[Alam, Md. Jahangir / Kenny, Patrick / O'Shaughnessy, Douglas: "Regularized MVDR spectrum estimation-based robust feature extractors for speech recognition", 891-895.](#)

[Lu, Liang / Ghoshal, Arnab / Renals, Steve: "Noise adaptive training for subspace Gaussian mixture models", 3492-3496.](#)

[Saon, George / Thomas, Samuel / Soltau, Hagen / Ganapathy, Sriram / Kingsbury, Brian: "The IBM speech activity detection system for the DARPA RATS program", 3497-3501.](#)

[Sehr, Armin / Yoshioka, Takuya / Delcroix, Marc / Kinoshita, Keisuke / Nakatani, Tomohiro / Maas,](#)

[Roland / Kellermann, Walter: "Conditional emission densities for combining speech enhancement and recognition systems", 3502-3506.](#)

[Wolf, Martin / Nadeu, Climent: "Channel selection using n-best hypothesis for multi-microphone ASR", 3507-3511.](#)

[Ishii, Takaaki / Komiyama, Hiroki / Shinozaki, Takahiro / Horiuchi, Yasuo / Kuroiwa, Shingo: "Reverberant speech recognition based on denoising autoencoder", 3512-3516.](#)

[Maymon, Shay / Dognin, Pierre / Cui, Xiaodong / Goel, Vaibhava: "Adaptive stereo-based stochastic mapping", 3517-3521.](#)

[Kao, Yu-Chen / Chen, Berlin: "Distribution-based feature normalization for robust speech recognition leveraging context and dynamics cues", 2958-2962.](#)

[Liu, Shilin / Sim, Khe Chai: "An investigation of temporally varying weight regression for noise robust speech recognition", 2963-2967.](#)

[Li, Yang / Liu, Xunying / Wang, Lan: "Feature space generalized variable parameter HMMs for noise robust recognition", 2968-2972.](#)

[Brakel, Philémon / Stroobandt, Dirk / Schrauwen, Benjamin: "Bidirectional truncated recurrent neural networks for efficient speech denoising", 2973-2977.](#)

[Variani, Ehsan / Li, Feipeng / Hermansky, Hynek: "Multi-stream recognition of noisy speech with performance monitoring", 2978-2981.](#)

[Fujimoto, Masakiyo / Nakatani, Tomohiro: "Model-based noise suppression using unsupervised estimation of hidden Markov model for non-stationary noise", 2982-2986.](#)

[Nathwani, Karan / Hegde, Rajesh M.: "Joint noise cancellation and dereverberation using multi-channel linearly constrained minimum variance filter", 2987-2991.](#)

[Delcroix, Marc / Kubo, Yotaro / Nakatani, Tomohiro / Nakamura, Atsushi: "Is speech enhancement pre-processing still relevant when using deep neural networks for acoustic modeling?", 2992-2996.](#)

[Hsieh, Hsin-Ju / Chen, Berlin / Hung, Jieh-weih: "Histogram equalization of real and imaginary modulation spectra for noise-robust speech recognition", 2997-3001.](#)

[Li, Bo / Tsao, Yu / Sim, Khe Chai: "An investigation of spectral restoration algorithms for deep neural networks based noise robust speech recognition", 3002-3006.](#)

[Remes, Ulpu: "Bounded conditional mean imputation with an approximate posterior", 3007-3011.](#)

[Cui, Xiaodong / Goel, Vaibhava / Kingsbury, Brian: "Mixtures of Bayesian joint factor analyzers for noise robust automatic speech recognition", 3012-3016.](#)

[Liu, Gang / Dimitriadis, Dimitrios / Bocchieri, Enrico: "Robust speech enhancement techniques for ASR in non-stationary noise and dynamic environments", 3017-3021.](#)

Neural Basis of Speech Perception

[Poblete, Víctor / Yoma, Néstor Becerra / Stern, Richard M.: "Optimization of sigmoidal rate-level function based on acoustic features", 896-900.](#)

[Sadakata, Makiko / Spyrou, Loukianos / Shingai, Mizuki / Sekiyama, Kaoru: "Composing auditory ERPs: cross-linguistic comparison of auditory change complex for Japanese fricative consonants", 901-905.](#)

[Bedoin, Nathalie / Krzonowski, Jennifer / Ferragne, Emmanuel: "How voicing, place and manner of articulation differently modulate event-related potentials associated with response inhibition", 906-910.](#)

[Bellier, Ludovic / Mazzuca, Michel / Thai-Van, Hung / Caclin, Anne / Laboissière, Rafael: "Categorization](#)

[of speech in early auditory evoked responses", 911-915.](#)

[Manca, Anna Dora / Grimaldi, Mirko: "Perception and production of Italian vowels: an ERP study", 916-920.](#)

[Grohe, Ann-Kathrin / Braun, Bettina: "Implicit learning leads to familiarity effects for intonation but not for voice", 921-924.](#)

Spooing and Countermeasures for Automatic Speaker Verification (Special Session)

[Evans, Nicholas / Kinnunen, Tomi / Yamagishi, Junichi: "Spooing and countermeasures for automatic speaker verification", 925-929.](#)

[Hautamäki, Rosa González / Kinnunen, Tomi / Hautamäki, Ville / Leino, Timo / Laukkanen, Anne-Maria: "I-vectors meet imitators: on vulnerability of speaker verification systems against voice mimicry", 930-934.](#)

[Gomez-Barrero, Marta / Gonzalez-Dominguez, Javier / Galbally, Javier / Gonzalez-Rodriguez, Joaquin: "Security evaluation of i-vector based speaker verification systems against hill-climbing attacks", 935-939.](#)

[Alegre, Federico / Vipperla, Ravichander / Amehraye, Asmaa / Evans, Nicholas: "A new speaker verification spooing countermeasure based on local binary patterns", 940-944.](#)

[Kons, Zvi / Aronowitz, Hagai: "Voice transformation-based spooing of text-dependent speaker verification systems", 945-949.](#)

[Wu, Zhizheng / Larcher, Anthony / Lee, Kong Aik / Chng, Eng Siong / Kinnunen, Tomi / Li, Haizhou: "Vulnerability evaluation of speaker verification under voice conversion spooing: the effect of text constraints", 950-954.](#)

Metadata, Evaluation and Resources I, II

[Sperber, Matthias / Neubig, Graham / Fügen, Christian / Nakamura, Satoshi / Waibel, Alex: "Efficient speech transcription through respeaking", 1087-1091.](#)

[Kim, Samuel / Georgiou, Panayiotis G. / Narayanan, Shrikanth: "Annotation and classification of Political advertisements", 1092-1096.](#)

[Higashinaka, Ryuichiro / Dohsaka, Kohji / Isozaki, Hideki: "Using role play for collecting question-answer pairs for dialogue agents", 1097-1100.](#)

[Arimoto, Yoshiko / Okanoya, Kazuo: "Individual differences of emotional expression in speaker's behavioral and autonomic responses", 1101-1105.](#)

[Wechsung, Ina / Weiss, Benjamin / Kühnel, Christine / Ehrenbrink, Patrick / Möller, Sebastian: "Development and validation of the conversational agents scale \(CAS\)", 1106-1110.](#)

[Riccardi, G. / Ghosh, A. / Chowdhury, S. A. / Bayer, Ali Orkan: "Motivational feedback in crowdsourcing: a case study in speech transcription", 1111-1115.](#)

[Fox, Charles / Liu, Yulan / Zwysig, Erich / Hain, Thomas: "The sheffield wargames corpus", 1116-1120.](#)

[Kumar, Anuj / Metze, Florian / Wang, Wenyi / Kam, Matthew: "Formalizing expert knowledge for developing accurate speech recognizers", 1121-1125.](#)

[Moubayed, Samer Al / Edlund, Jens / Gustafson, Joakim: "Analysis of gaze and speech patterns in three-party quiz game interaction", 1126-1130.](#)

[Galibert, Olivier: "Methodologies for the evaluation of speaker diarization and automatic speech](#)

[recognition in the presence of overlapping speech", 1131-1134.](#)

[Sangwan, Abhijeet / Kaushik, Lakshmi / Yu, Chengzhu / Hansen, John H. L. / Oard, Douglas W.: "Houston, we have a solution': using NASA Apollo program to advance speech and language processing technology", 1135-1139.](#)

[Matoušek, Jindřich / Tihelka, Daniel: "Annotation errors detection in TTS corpora", 1511-1515.](#)

[Ahmed, Imran / Koppurapu, Sunil Kumar: "Technique for automatic sentence level alignment of long speech and transcripts", 1516-1519.](#)

[Hoffmann, Sarah / Pfister, Beat: "Text-to-speech alignment of long recordings using universal phone models", 1520-1524.](#)

[Stan, Adriana / Bell, Peter / Yamagishi, Junichi / King, Simon: "Lightly supervised discriminative training of grapheme models for improved sentence-level alignment of speech and text data", 1525-1529.](#)

[Sapru, Ashtosh / Boulard, Hervé: "Automatic social role recognition in professional meetings using conditional random fields", 1530-1534.](#)

[Draxler, Christoph / Feiser, Hanna S.: "Same same but different — an acoustical comparison of the automatic segmentation of high quality and mobile telephone speech", 1535-1539.](#)

Speech Technology for Speech and Hearing Disorders I, II

[Hofe, Robin / Bai, Jie / Cheah, Lam A. / Ell, Stephen R. / Gilbert, James M. / Moore, Roger K. / Green, Phil D.: "Performance of the MVOCA silent speech interface across multiple speakers", 1140-1143.](#)

[Andrade-Miranda, Gustavo / Godino-Llorente, Juan Ignacio: "Automatic glottal tracking from high-speed digital images using a continuous normalized cross correlation", 1144-1148.](#)

[Bocklet, Tobias / Steidl, Stefan / Nöth, Elmar / Skodda, Sabine: "Automatic evaluation of Parkinson's speech — acoustic, prosodic and voice related cues", 1149-1153.](#)

[Orosanu, Luiza / Juvet, Denis: "Comparison of approaches for an efficient phonetic decoding", 1154-1158.](#)

[Christensen, H. / Green, Phil D. / Hain, Thomas: "Learning speaker-specific pronunciations of disordered speech", 1159-1163.](#)

[López-Ludeña, V. / San-Segundo, R. / González-Morcillo, C. / López, J. C. / Ferreiro, E.: "Adapting a speech into sign language translation system to a new domain", 1164-1168.](#)

[Vaerenberg, Bart / Bosch, Louis ten / Kowalczyk, Wojtek / Coene, Martine / Smet, Herwig De / Govaerts, Paul J.: "Language-universal speech audiometry with automated scoring", 3608-3612.](#)

[Hammer, Annemiek / Vaerenberg, Bart / Kowalczyk, Wojtek / Bosch, Louis ten / Coene, Martine / Govaerts, Paul J.: "Balancing word lists in speech audiometry through large spoken language corpora", 3613-3616.](#)

[López-Ludeña, V. / San-Segundo, R. / Ferreiros, J. / Pardo, J. M. / Ferreiro, E.: "Developing an information system for deaf", 3617-3621.](#)

[Kim, Myung Jong / Yoo, Joohong / Kim, Hoirin: "Dysarthric speech recognition using dysarthria-severity-dependent and speaker-adaptive models", 3622-3626.](#)

[Muhammad, Ghulam / Melhem, Moutasem: "Voice pathology detection and classification using MPEG-7 audio low-level features", 3627-3631.](#)

[Kacha, Abdellah / Grenez, Francis / Schoentgen, Jean: "Empirical mode decomposition-based spectral acoustic cues for disordered voices analysis", 3632-3636.](#)

[Aihara, Ryo / Takashima, Ryoichi / Takiguchi, Tetsuya / Arik, Yasuo: "Exemplar-based individuality-preserving voice conversion for articulation disorders in noisy environments", 3637-3641.](#)

[Christensen, H. / Aniol, M. B. / Bell, Peter / Green, Phil D. / Hain, Thomas / King, Simon / Swietojanski, Pawel: "Combining in-domain and out-of-domain speech data for automatic recognition of disordered speech", 3642-3645.](#)

[Mai, Guangting / Minett, James W. / Wang, William S. -Y.: "Effects of envelope filter cutoff frequency on the intelligibility of Mandarin noise-vocoded speech in babble noise: implications for cochlear implants", 3646-3650.](#)

Discriminative Training Methods for Language Modeling

[Schwenk, Holger: "CSLM — a modular open-source continuous space language modeling toolkit", 1198-1202.](#)

[Shi, Yangyang / Hwang, Mei-Yuh / Yao, Kaisheng / Larson, Martha: "Speed up of recurrent neural network language models with sentence independent subsampling stochastic gradient descent", 1203-1207.](#)

[Chang, Shuangyu / Levit, Michael / Parthasarathy, Partha / Dumoulin, Benoit: "Improving unsupervised language model adaptation with discriminative data filtering", 1208-1212.](#)

[Kobayashi, Akio / Oku, Takahiro / Fujita, Yuya / Sato, Shoei: "Lightly supervised training for risk-based discriminative language models", 1213-1217.](#)

[Dikici, Erinç / Prud'hommeaux, Emily / Roark, Brian / Saraçlar, Murat: "Investigation of MT-based ASR confusion models for semi-supervised discriminative language modeling", 1218-1222.](#)

[Oba, Takanobu / Ogawa, Atsunori / Hori, Takaaki / Masataki, Hirokazu / Nakamura, Atsushi: "Unsupervised discriminative language modeling using error rate estimator", 1223-1227.](#)

ASR — Adaptive Training

[Rath, Shakti P. / Burget, Lukáš / Karafiát, Martin / Glembek, Ondřej / Černocký, Jan: "A region-specific feature-space transformation for speaker adaptation and singularity analysis of jacobian matrix", 1228-1232.](#)

[Wang, Y.-Q. / Gales, M. J. F.: "An explicit independence constraint for factorised adaptation in speech recognition", 1233-1237.](#)

[Saz, Oscar / Hain, Thomas: "Asynchronous factorisation of speaker and background with feature transforms in speech recognition", 1238-1242.](#)

[Yu, Kai / Xu, Hainan: "Cluster adaptive training with factorized decision trees for speech recognition", 1243-1247.](#)

[Abdel-Hamid, Ossama / Jiang, Hui: "Rapid and effective speaker adaptation of convolutional neural network based models for speech recognition", 1248-1252.](#)

[Kintzley, Keith / Jansen, Aren / Hermansky, Hynek: "Text-to-speech inspired duration modeling for improved whole-word acoustic models", 1253-1257.](#)

Speech Acquisition and Development

[Gregory, Adele / Tabain, Marija / Robb, Michael: "Duration of early vocalisations", 1258-1262.](#)

[Yang, Jing / Fox, Robert Allen: "Acoustic development of vowel production in American English children", 1263-1267.](#)

[Moulin-Frier, Clément / Oudeyer, Pierre-Yves: "The role of intrinsic motivations in learning sensorimotor](#)

[vocal mappings: a developmental robotics study", 1268-1272.](#)

[Hazan, Valerie / Pettinato, Michèle: "Children's timing and repair strategies for communication in adverse listening conditions", 1273-1277.](#)

[Barbier, Guillaume / Perrier, Pascal / Ménard, Lucie / Payan, Yohan / Tiede, Mark K. / Perkell, Joseph S.: "Speech planning as an index of speech motor control maturity", 1278-1282.](#)

[Kinsman, Melissa / Li, Fangfang: "The relationship between gender-differentiated productions of /s/ and gender role behaviour in young children", 1283-1286.](#)

Articulatory Data Acquisition and Processing (Special Session)

[Berry, Jeffrey / Fadiga, Luciano: "Data-driven design of a sentence list for an articulatory speech corpus", 1287-1291.](#)

[Zhu, Yinghua / Toutios, Asterios / Narayanan, Shrikanth / Nayak, Krishna: "Faster 3d vocal tract real-time MRI using constrained reconstruction", 1292-1296.](#)

[Canevari, Claudia / Badino, Leonardo / Fadiga, Luciano / Metta, Giorgio: "Relevance-weighted-reconstruction of articulatory features in deep-neural-network-based acoustic-to-articulatory mapping", 1297-1301.](#)

[Tomaschek, Fabian / Wieling, Martijn / Arnold, Denis / Baayen, R. Harald: "Word frequency, vowel length and vowel quality in speech production: an EMA study of the importance of experience", 1302-1306.](#)

[Silva, Samuel / Teixeira, António / Oliveira, Catarina / Martins, Paula: "Towards a systematic and quantitative analysis of vocal tract data", 1307-1311.](#)

[Vaz, Colin / Ramanarayanan, Vikram / Narayanan, Shrikanth: "A two-step technique for MRI audio enhancement using dictionary learning and wavelet packet analysis", 1312-1315.](#)

[Stella, Massimo / Stella, Antonio / Sigona, Francesco / Bernardini, Paolo / Grimaldi, Mirko / Fivela, Barbara Gili: "Electromagnetic articulography with AG500 and AG501", 1316-1320.](#)

[Badin, Pierre / Vargas, Julián Andrés Valdés / Koncki, Arielle / Lamalle, Laurent / Savariaux, Christophe: "Development and implementation of fiducial markers for vocal tract MRI imaging and speech articulatory modelling", 1321-1325.](#)

[Schötz, Susanne / Frid, Johan / Gustafsson, Lars / Löfqvist, Anders: "Functional data analysis of tongue articulation in palatal vowels: gothenburg and malmöhus Swedish /i:, y:, ɥ:/", 1326-1330.](#)

[Green, Jordan R. / Wang, Jun / Wilson, David L.: "SMASH: a tool for articulatory data processing and analysis", 1331-1335.](#)

Topics in Speech Perception and Emotion

[Lin, Jen-Chun / Wu, Chung-Hsien / Wei, Wen-Li: "Emotion recognition of conversational affective speech using temporal course modeling", 1336-1340.](#)

[Altrov, Rene / Pajupuu, Hille / Pajupuu, Jaan: "The role of empathy in the recognition of vocal emotions", 1341-1344.](#)

[Brunellière, Angèle / Dufour, Sophie: "Electrophysiological evidence for benefits of imitation during the processing of spoken words embedded in sentential contexts", 1345-1349.](#)

[Ogane, Rintaro / Honda, Masaaki: "Compensatory speech response to time-scale altered auditory feedback", 1350-1354.](#)

[Nwe, Tin Lay / Nguyen, Trung Hieu / Limbu, Dilip Kumar: "Bhattacharyya distance based emotional](#)

[dissimilarity measure in multi-dimensional space for emotion classification", 1355-1359.](#)

[Prego, Thiago de M. / Lima, Amaro A. de / Netto, Sergio L.: "On the enhancement of dereverberation algorithms based on a perceptual evaluation criterion", 1360-1364.](#)

[Gussenhoven, Carlos / Zhou, Wencui: "Revisiting pitch slope and height effects on perceived duration", 1365-1369.](#)

[Guiraud, H el ene / Ferragne, Emmanuel / Bedoin, Nathalie / Boulenger, V eronique: "Adaptation to natural fast speech and time-compressed speech in children", 1370-1374.](#)

[Windmann, Andreas / Šimko, Juraj / Wrede, Britta / Wagner, Petra: "Modeling durational incompressibility", 1375-1379.](#)

[ mond, Caroline / M nard, Lucie / Laforest, Marty: "Perceived prosodic correlates of smiled speech in spontaneous data", 1380-1383.](#)

[Raake, Alexander / Schoenberg, Katrin / Skowronek, Janto / Egger, Sebastian: "Predicting speech quality based on interactivity and delay", 1384-1388.](#)

[Kouklia, Charlotte / Audibert, Nicolas: "Perceptual, acoustic and electroglottographic correlates of 3 aggressive attitudes in French: a pilot study", 1389-1393.](#)

Discourse and Machine Learning, Paralinguistic and Nonlinguistic Cues

[Morchid, Mohamed / Linar es, Georges / El-Beze, Marc / Mori, Renato De: "Theme identification in telephone service conversations using quaternions of speech features", 1394-1398.](#)

[Rao, Hrishikesh / Kim, Jonathan C. / Rozga, Agata / Clements, Mark A.: "Detection of laughter in children's speech using spectral and prosodic acoustic features", 1399-1403.](#)

[Truong, Khiet P.: "Classification of cooperative and competitive overlaps in speech using cues from the context, overlapper, and overlappee", 1404-1408.](#)

[Kim, Samuel / Valente, Fabio / Vinciarelli, Alessandro: "Annotation and detection of conflict escalation in Political debates", 1409-1413.](#)

[Schiel, Florian / Stevens, Mary / Reichel, Uwe D. / Cutugno, Francesco: "Machine learning of probabilistic phonological pronunciation rules from the Italian CLIPS corpus", 1414-1418.](#)

[Baumeister, Barbara / Schiel, Florian: "Human perception of alcoholic intoxication in speech", 1419-1423.](#)

[Hou, Luying / Jia, Yuan / Li, Aijun: "Phonetic manifestation and influence of zero anaphora in Chinese reading texts", 1424-1428.](#)

[Harrat, S. / Abbas, M. / Meftouh, K. / Smaili, K.: "Diacritics restoration for Arabic dialect texts", 1429-1433.](#)

[Włodarczak, Marcin / Wagner, Petra: "Effects of talk-spurt silence boundary thresholds on distribution of gaps and overlaps", 1434-1437.](#)

[Kachkovskaia, Tatiana / Volskaya, Nina / Skrelin, Pavel: "Final lengthening in Russian: a corpus-based study", 1438-1442.](#)

[Reichel, Uwe D.: "From segmentation bootstrapping to transcription-to-word conversion", 1443-1447.](#)

[Caelen-Haumont, Genevi ve / Bartkova, Katarina: "Manual and automatic tone annotation: the case of an endangered language from north vietnam "mo piu"", 1448-1452.](#)

[Leonarduzzi, Laetitia / Herment, Sophie: "Non-canonical syntactic structures in discourse: tonality, tonicity and tones in English \(semi-\)spontaneous speech", 1453-1457.](#)

[Nouri, Elnaz / Park, Sunghyun / Scherer, Stefan / Gratch, Jonathan / Carnevale, Peter / Morency, Louis-Philippe / Traum, David: "Prediction of strategy and outcome as negotiation unfolds by using basic verbal and behavioral features", 1458-1461.](#)

Language Identification, Speaker Diarization

[Poignant, Johann / Besacier, Laurent / Le, Viet Bac / Rosset, Sophie / Quénot, Georges: "Unsupervised naming of speakers in broadcast TV: using written names, pronounced names or both?", 1462-1466.](#)

[Bredin, Hervé / Poignant, Johann: "Integer linear programming for speaker diarization and cross-modal identification in TV broadcast", 1467-1471.](#)

[DeMarco, Andrea / Cox, Stephen J.: "Native accent classification via i-vectors and speaker compensation fusion", 1472-1476.](#)

[Rouvier, Mickael / Dupuy, Grégor / Gay, Paul / Khoury, Elie / Merlin, Teva / Meignier, Sylvain: "An open-source state-of-the-art toolbox for broadcast news diarization", 1477-1481.](#)

[Kons, Zvi / Toledo-Ronen, Orith: "Audio event classification using deep neural networks", 1482-1486.](#)

[Liang, Wei-Bin / Wu, Chung-Hsien / Hsu, Chun-Shan: "Code-Switching event detection based on delta-BIC using phonetic eigenvoice models", 1487-1491.](#)

[Hirayama, Naoki / Yoshino, Koichiro / Itoyama, Katsutoshi / Mori, Shinsuke / Okuno, Hiroshi G.: "Automatic estimation of dialect mixing ratio for dialect speech recognition", 1492-1496.](#)

[Rodríguez-Fuentes, Luis Javier / Brümmer, Niko / Penagarikano, Mikel / Varona, Amparo / Bordel, Germán / Diez, Mireia: "The albayzin 2012 language recognition evaluation", 1497-1501.](#)

[Han, Kyu J. / Ganapathy, Sriram / Li, Ming / Omar, Mohamed K. / Narayanan, Shrikanth: "TRAP language identification system for RATS phase II evaluation", 1502-1506.](#)

[Lawson, Aaron / McLaren, Mitchell / Lei, Yun / Mitra, Vikramjit / Scheffer, Nicolas / Ferrer, Luciana / Graciarena, Martin: "Improving language identification robustness to highly channel-degraded speech through multiple system fusion", 1507-1510.](#)

Speech Synthesis — Prosody and Emotion

[Kang, Yongguo / Li, Jian / Deng, Yan / Wang, Miaomiao: "Multi-centroidal duration generation algorithm for HMM-based TTS", 1540-1543.](#)

[Raitio, Tuomo / Suni, Antti / Pohjalainen, Jouni / Airaksinen, Manu / Vainio, Martti / Alku, Paavo: "Analysis and synthesis of shouted speech", 1544-1548.](#)

[Nagata, Tomohiro / Mori, Hiroki / Nose, Takashi: "Robust estimation of multiple-regression HMM parameters for dimension-based expressive dialogue speech synthesis", 1549-1553.](#)

[Brognaux, Sandrine / Picart, Benjamin / Drugman, Thomas: "A new prosody annotation protocol for live sports commentaries", 1554-1558.](#)

[Mehrabani, Mahnoosh / Mishra, Taniya / Conkie, Alistair: "Unsupervised prominence prediction for speech synthesis", 1559-1563.](#)

[Charfuelan, Marcela / Steiner, Ingmar: "Expressive speech synthesis in MARY TTS using audiobook data and emotionML", 1564-1568.](#)

Spoken Language Information Retrieval

[Ward, Nigel G. / Werner, Steven D.: "Using dialog-activity similarity for spoken information retrieval", 1569-1573.](#)

[Chen, I-Fan / Lee, Chin-Hui: "A hybrid HMM/DNN approach to keyword spotting of short words", 1574-1578.](#)

[Wintrode, Jonathan: "Leveraging locality for topic identification of conversational speech", 1579-1583.](#)

[Senay, Grégory / Bigot, Benjamin / Dufour, Richard / Linarès, Georges / Fredouille, Corinne: "Person name spotting by combining acoustic matching and LDA topic models", 1584-1588.](#)

[Szaszák, György / Beke, András: "Using phonological phrase segmentation to improve automatic keyword spotting for the highly agglutinating Hungarian language", 1589-1593.](#)

[Heck, Larry / Hakkani-Tür, Dilek / Tur, Gokhan: "Leveraging knowledge graphs for web-scale unsupervised semantic parsing", 1594-1598.](#)

Speaker Recognition I, II

[Cumani, Sandro / Laface, Pietro: "Fast and memory effective i-vector extraction using a factorized sub-space", 1599-1603.](#)

[Simonchik, Konstantin / Shulipa, Andrey / Pekhovsky, Timur: "Effective estimation of a multi-session speaker model using information on signal parameters", 1604-1608.](#)

[Hautamäki, Ville / Lee, Kong Aik / Leeuwen, David A. van / Saeidi, R. / Larcher, Anthony / Kinnunen, Tomi / Hasan, Taufiq / Sadjadi, Seyed Omid / Liu, Gang / Bořil, Hynek / Hansen, John H. L. / Fauve, Benoit: "Automatic regularization of cross-entropy cost for speaker recognition fusion", 1609-1613.](#)

[Li, Ming / Kim, Jangwon / Ghosh, Prasanta Kumar / Ramanarayanan, Vikram / Narayanan, Shrikanth: "Speaker verification based on fusion of acoustic and articulatory information", 1614-1618.](#)

[Leeuwen, David A. van / Brümmer, Niko: "The distribution of calibrated likelihood-ratios in speaker recognition", 1619-1623.](#)

[Kelly, Finnian / Brümmer, Niko / Harte, Naomi: "Eigenageing compensation for speaker verification", 1624-1628.](#)

[Sarkar, A. K. / Barras, Claude: "Anchor and UBM-based multi-class MLLR m-vector system for speaker verification", 2450-2454.](#)

[Perera, Leibny Paola Garcia / Raj, Bhiksha / Nolzco-Flores, Juan Arturo: "Ensemble approach in speaker verification", 2455-2459.](#)

[Wang, Jun / Wang, Dong / Wu, Xiaojun / Zheng, Thomas Fang / Tejedor, Javier: "Sequential model adaptation for speaker verification", 2460-2464.](#)

[Kanagasundaram, A. / Dean, D. / Gonzalez-Dominguez, Javier / Sridharan, S. / Ramos, D. / Gonzalez-Rodriguez, Joaquin: "Improving short utterance based i-vector speaker recognition using source and utterance-duration normalization techniques", 2465-2469.](#)

[Aronowitz, Hagai / Barkan, Oren: "On leveraging conversational data for building a text dependent speaker verification system", 2470-2473.](#)

[Zhang, Wei-Qiang / Li, Zhiyi / Liu, Weiwei / Liu, Jia: "THU-EE system fusion for the NIST 2012 speaker recognition evaluation", 2474-2478.](#)

[Garcia-Romero, Daniel / McCree, Alan: "Subspace-constrained supervector PLDA for speaker verification", 2479-2483.](#)

[Do, Cong-Thanh / Barras, Claude / Le, Viet Bac / Sarkar, A. K.: "Augmenting short-term cepstral features with long-term discriminative features for speaker verification of telephone data", 2484-2488.](#)

[Rajan, Padmanabhan / Kinnunen, Tomi / Hanilçi, Cemal / Pohjalainen, Jouni / Alku, Paavo: "Using group delay functions from all-pole models for speaker recognition", 2489-2493.](#)

[Portêlo, José / Abad, Alberto / Raj, Bhiksha / Trancoso, Isabel: "Secure binary embeddings of front-end factor analysis for privacy preserving speaker verification", 2494-2498.](#)

[Taghia, Jalil / Ma, Zhanyu / Leijon, Arne: "On von-mises fisher mixture model in text-independent speaker identification", 2499-2503.](#)

[Diez, Mireia / Varona, Amparo / Penagarikano, Mikel / Rodríguez-Fuentes, Luis Javier / Bordel, Germán: "Using phone log-likelihood ratios as features for speaker recognition", 2504-2508.](#)

[Villalba, Jesús / Diez, Mireia / Varona, Amparo / Lleida, Eduardo: "Handling recordings acquired simultaneously over multiple channels with PLDA", 2509-2513.](#)

[Fang, Xiao / Dehak, Najim / Glass, James: "Bayesian distance metric learning on i-vector for speaker verification", 2514-2518.](#)

[Hautamäki, Rosa González / Hautamäki, Ville / Rajan, Padmanabhan / Kinnunen, Tomi: "Merging human and automatic system decisions to improve speaker recognition performance", 2519-2523.](#)

Multimodal Speech Perception

[Erjavec, Grozdana / Legros, Denis: "Effects of mouth-only and whole-face displays on audio-visual speech perception in noise: is the vision of a talker's full face truly the most efficient solution?", 1629-1633.](#)

[Tiippana, Kaisa / Tainen, Mikko / Vainio, Lari / Vainio, Martti: "Acoustic and visual phonetic features in the mcgurk effect — an audiovisual speech illusion", 1634-1638.](#)

[Davis, Chris / Kim, Jeusun: "The effect of visual speech timing and form cues on the processing of speech and nonspeech", 1639-1642.](#)

[Chandrashekhara, Ganesh Attigodu / Berthommier, Frédéric / Nahorna, Olha / Schwartz, Jean-Luc: "Effect of context, rebinding and noise, on audiovisual speech fusion", 1643-1647.](#)

[Rilliard, Albert / Erickson, Donna / Shochi, Takaaki / Moraes, João Antônio de: "Social face to face communication — American English attitudinal prosody", 1648-1652.](#)

[Bailly, Gérard / Rochet-Capellan, Amélie / Vilain, Coriandre: "Adaptation of respiratory patterns in collaborative reading", 1653-1657.](#)

ASR — Feature Extraction

[Tóth, László: "Convolutional deep rectifier neural nets for phone recognition", 1722-1726.](#)

[Hirsch, Hans-Günter: "Pitch synchronous spectral analysis for a pitch dependent recognition of voiced phonemes — PISAR", 1727-1731.](#)

[Rodríguez, José Luis Oropeza: "New parameters for automatic speech recognition based on the mammalian cochlea model using resonance analysis", 1732-1736.](#)

[Jaitly, Navdeep / Hinton, Geoffrey E.: "Using an autoencoder with deformable templates to discover features for automated speech recognition", 1737-1740.](#)

[Yeh, Ching-Feng / Lee, Hung-yi / Lee, Lin-shan: "Speaking rate normalization with lattice-based context-dependent phoneme duration modeling for personalized speech recognizers on mobile devices", 1741-1745.](#)

[Qi, Jun / Wang, Dong / Tejedor, Javier: "Subspace models for bottleneck features", 1746-1750.](#)

[Qi, Jun / Wang, Dong / Xu, Ji / Tejedor, Javier: "Bottleneck features based on gammatone frequency cepstral coefficients", 1751-1755.](#)

[Golik, Pavel / Doetsch, Patrick / Ney, Hermann: "Cross-entropy vs. squared error training: a theoretical and experimental comparison", 1756-1760.](#)

[Patil, Vaishali / Rao, Preeti: "Acoustic features for detection of phonemic aspiration in voiced plosives", 1761-1765.](#)

[Palaz, Dimitri / Collobert, Ronan / Magimai-Doss, Mathew: "Estimating phoneme class conditional probabilities from raw speech signal using convolutional neural networks", 1766-1770.](#)

[Olaso, Javier Mikel / Torres, María Inés: "Hierarchical models based on a continuous acoustic space to identify phonological features", 1771-1775.](#)

[Tomar, Vikrant Singh / Rose, Richard C.: "Locality sensitive hashing for fast computation of correlational manifold learning based feature space transformations", 1776-1780.](#)

[Schatz, Thomas / Peddinti, Vijayaditya / Bach, Francis / Jansen, Aren / Hermansky, Hynek / Dupoux, Emmanuel: "Evaluating speech features with the minimal-pair ABX task: analysis of the classical MFC/PLP pipeline", 1781-1785.](#)

ASR — Pronunciation, Prosodic and New Paradigms

[Chiang, Chen-Yu / Siniscalchi, Sabato Marco / Chen, Sin-Horng / Lee, Chin-Hui: "Knowledge integration for improving performance in LVCSR", 1786-1790.](#)

[Heckmann, Martin: "Inter-speaker variability in audio-visual classification of word prominence", 1791-1795.](#)

[Liu, Shilin / Sim, Khe Chai: "Parameter clustering for temporally varying weight regression for automatic speech recognition", 1796-1800.](#)

[Alumäe, Tanel / Nemoto, Rena: "Phone duration modeling using clustering of rich contexts", 1801-1805.](#)

[Ahmadi, Farzaneh / Ahmadi, Mousa / McLoughlin, Ian Vince: "Human mouth state detection using low frequency ultrasound", 1806-1810.](#)

[Li, Kun / Qian, Xiaojun / Kang, Shiyin / Meng, Helen: "Lexical stress detection for L2 English speech using deep belief networks", 1811-1815.](#)

[Qian, Yanmin / Liu, Jia: "MLP-HMM two-stage unsupervised training for low-resource languages on conversational telephone speech recognition", 1816-1820.](#)

[Novak, Josef R. / Minematsu, Nobuaki / Hirose, Keikichi: "Failure transitions for joint n-gram models and G2p conversion", 1821-1825.](#)

[Kameoka, Hirokazu / Yoshizato, Kota / Ishihara, Tatsuma / Ohishi, Yasunori / Kashino, Kunio / Sagayama, Shigeki: "Generative modeling of speech F₀ contours", 1826-1830.](#)

[Davel, Marelle H. / Heerden, Charl van / Barnard, Etienne: "G2p variant prediction techniques for ASR and STD", 1831-1835.](#)

[Jin, Jin / Tepperman, Joseph: "Rhythm analysis of second-language speech through low-frequency auditory features", 1836-1839.](#)

[Liu, Yuzong / Kirchhoff, Katrin: "Graph-based semi-supervised learning for phone and segment classification", 1840-1843.](#)

[Shen, Ao / Cooke, Neil / Russell, Martin: "Selective use of gaze information to improve ASR performance in noisy environments by cache-based class language model adaptation", 1844-1848.](#)

[Abdel-Hamid, Ossama / Deng, Li / Yu, Dong / Jiang, Hui: "Deep segmental neural networks for speech recognition", 1849-1853.](#)

[Coene, Martine / Hammer, Annemiek / Kowalczyk, Wojtek / Bosch, Louis ten / Vaerenberg, Bart / Govaerts, Paul J.: "Quantifying cross-linguistic variation in grapheme-to-phoneme mapping", 1854-1857.](#)

Dialog Systems

[Kawahara, Tatsuya / Hayashi, Soichiro / Takanashi, Katsuya: "Estimation of interest and comprehension level of audience through multi-modal behaviors in poster conversations", 1882-1885.](#)

[Hu, Wenping / Qian, Yao / Soong, Frank K.: "A new DNN-based high quality pronunciation evaluation for computer-aided language learning \(CALL\)", 1886-1890.](#)

[Planells, Joaquin / Hurtado, Lluís-F. / Segarra, Encarna / Sanchis, Emilio: "A multi-domain dialog system to integrate heterogeneous spoken dialog systems", 1891-1895.](#)

[Todo, Yuki / Nishimura, Ryota / Yamamoto, Kazumasa / Nakagawa, Seiichi: "Development and evaluation of spoken dialog systems with one or two agents", 1896-1900.](#)

[Skantze, Gabriel / Oertel, Catharine / Hjalmarsson, Anna: "User feedback in human-robot interaction: prosody, gaze and timing", 1901-1905.](#)

[Xi, Yongxin Taylor / Paulik, Matthias / Gadde, Venkata Ramana / Sankar, Ananth: "KPCatcher — a keyphrase extraction system for enterprise videos", 1906-1910.](#)

ASR — Pronunciation Variants and Modeling

[Song, Meixu / Zhang, Qingqing / Pan, Jieli / Yan, Yonghong: "Discriminative pronunciation modeling based on minimum phone error training", 1941-1945.](#)

[Kubo, Keigo / Sakti, Sakriani / Neubig, Graham / Toda, Tomoki / Nakamura, Satoshi: "Grapheme-to-phoneme conversion based on adaptive regularization of weight vectors", 1946-1950.](#)

[Naghibi, Tofiq / Hoffmann, Sarah / Pfister, Beat: "An efficient method to estimate pronunciation from multiple utterances", 1951-1955.](#)

[Basson, Willem D. / Davel, Marelle H.: "Category-based phoneme-to-grapheme transliteration", 1956-1960.](#)

[Jyothi, Preethi / Fosler-Lussier, Eric / Livescu, Karen: "Discriminative training of WFST factors with application to pronunciation modeling", 1961-1965.](#)

[Karanasou, Penny / Yvon, François / Lavergne, Thomas / Lamel, Lori: "Discriminative training of a phoneme confusion model for a dynamic lexicon in ASR", 1966-1970.](#)

Speaker Recognition Evaluation

[Greenberg, Craig S. / Stanford, Vincent M. / Martin, Alvin F. / Yadagiri, Meghana / Doddington, George R. / Godfrey, John J. / Hernandez-Cordero, Jaime: "The 2012 NIST speaker recognition evaluation", 1971-1975.](#)

[Brümmer, Niko / Doddington, George R.: "Likelihood-ratio calibration using prior-weighted proper scoring rules", 1976-1980.](#)

[Ferrer, Luciana / McLaren, Mitchell / Scheffer, Nicolas / Lei, Yun / Graciarena, Martin / Mitra, Vikramjit: "A noise-robust system for NIST 2012 speaker recognition evaluation", 1981-1985.](#)

[aizhou / Hansen, John H. L. / Bonastre, Jean-Francois / Marcel, S. / Mason, John S. D. / Ambikairajah, Eliathamby: "I4u submission to NIST SRE 2012: a large-scale collaborative effort for noise-robust speaker verification", 1986-1990.](#)

[Sun, Hanwu / Ma, Bin: "Improved unsupervised NAP training dataset design for speaker recognition",](#)

[1991-1995.](#)

[Colibro, Daniele / Vair, Claudio / Farrell, Kevin / Krause, Nir / Karvitsky, Gennady / Cumani, Sandro / Laface, Pietro: "Nuance - Politecnico di torino's 2012 NIST speaker recognition evaluation system", 1996-2000.](#)

Physiology and Models of Speech Production

[Chen, Gang / Garellek, Marc / Kreiman, Jody / Gerratt, Bruce R. / Alwan, Abeer: "A perceptually and physiologically motivated voice source model", 2001-2005.](#)

[Smith, Caitlin / Proctor, Michael / Iskarous, Khalil / Goldstein, Louis / Narayanan, Shrikanth: "Stable articulatory tasks and their variable formation: tamil retroflex consonants", 2006-2009.](#)

[Ramanarayanan, Vikram / Lammert, Adam / Goldstein, Louis / Narayanan, Shrikanth: "Articulatory settings facilitate mechanically advantageous motor control of vocal tract articulators", 2010-2013.](#)

[Rochet-Capellan, Amélie / Fuchs, Susanne: "The interplay of linguistic structure and breathing in German spontaneous speech", 2014-2018.](#)

[Arai, Takayuki: "Physical models of the vocal tract with a flapping tongue for flap and liquid sounds", 2019-2023.](#)

[Laprie, Yves / Loosvelt, Matthieu / Maeda, Shinji / Sock, Rudolph / Hirsch, Fabrice: "Articulatory copy synthesis from cine x-ray films", 2024-2028.](#)

Speech Science in End-User Applications

[Bellegarda, Jerome R.: "Large-scale personal assistant technology deployment: the siri experience", 2029-2033.](#)

[Weiss, Benjamin / Willkomm, Simon / Möller, Sebastian: "Evaluating an adaptive dialog system for the public", 2034-2038.](#)

[Gemmeke, Jort F. / Ons, Bart / Tessema, Netsanet / Van hamme, Hugo / Loo, Janneke van de / Pauw, Guy De / Daelemans, Walter / Huyghe, Jonathan / Derboven, Jan / Vuegen, Lode / Broeck, Bert Van Den / Karsmakers, Peter / Vanrumste, Bart: "Self-taught assistive vocal interfaces: an overview of the ALADIN project", 2039-2043.](#)

[Eyben, Florian / Weninger, Felix / Schuller, Björn: "Affect recognition in real-life acoustic conditions — a new perspective on feature selection", 2044-2048.](#)

[Principi, Emanuele / Squartini, Stefano / Piazza, Francesco / Fuselli, Danilo / Bonifazi, Maurizio: "A distributed system for recognizing home automation commands and distress calls in the Italian language", 2049-2053.](#)

[Zinovieva, Nina / Zhuang, Xiaodan / Peterson, Pat / Alwan, Joe / Prasad, Rohit: "Probabilistic trainable segmenter for call center audio using multiple features", 2054-2058.](#)

[Burkhardt, Felix / Nägeli, Hans Ulrich: "Voice search in mobile applications and the use of linked open data", 2059-2061.](#)

[Vacher, Michel / Lecouteux, Benjamin / Istrate, Dan / Joubert, Thierry / Portet, François / Sehili, Mohamed / Chahuara, Pedro: "Evaluation of a real-time voice order recognition system from multiple audio channels in a home", 2062-2064.](#)

[Aman, Frédéric / Vacher, Michel / Rossato, Solange / Portet, François: "In-home detection of distress calls: the case of aged users", 2065-2067.](#)

[Liu, Ding / Cheung, Anthea / Margolis, Anna / Redmond, Patrick / Suh, Jun-won / Wang, Chao: "Data driven methods for utterance semantic tagging", 2068-2070.](#)

[Gouvêa, E. / Moreno-Daniel, A. / Reddy, A. / Chengalvarayan, R. / Thomson, D. / Ljolje, A.: "The AT&t speech API: a study on practical challenges for customized speech to text service", 2071-2073.](#)

[D'hoore, Bart / Wiesen, Alfred: "In-vehicle destination entry by voice: practical aspects", 2074-2076.](#)

Perception of Non Native Sounds

[Gautreau, Aurore / Hoen, Michel / Meunier, Fanny: "Intelligibility at a multilingual cocktail party: effect of concurrent language knowledge", 2077-2080.](#)

[Jacewicz, Ewa / Fox, Robert Allen: "Regional accents affect speech intelligibility in a multitalker environment", 2081-2085.](#)

[Tokuma, Shinichi / Tokuma, Won: "Perception of English minimal pairs in noise by Japanese listeners: does clear speech for L2 listeners help?", 2086-2090.](#)

[Sisinni, Bianca / Escudero, Paola / Grimaldi, Mirko: "Salento Italian listeners' perception of American English vowels", 2091-2094.](#)

[Rauber, Andréia Schurt / Rato, Anabela / Kluge, Denise Cristina / Santos, Giane Rodrigues dos: "TP 3.1 software: a tool for designing audio, visual, and audiovisual perceptual training tasks and perception tests", 2095-2098.](#)

[Chen, Fei / Li, Junfeng / Wong, Lena L. N. / Yan, Yonghong: "Effect of linguistic masker on the intelligibility of Mandarin sentences", 2099-2102.](#)

[Moon, Kyuwon / Sumner, Meghan: "The learning and generalization of contrasts consistent or inconsistent with native biases", 2103-2107.](#)

[Ying, Jia / Shaw, Jason A. / Best, Catherine T.: "L2 English learners' recognition of words spoken in familiar versus unfamiliar English accents", 2108-2112.](#)

[Wong, Janice Wing Sze: "The effects of perceptual and/or productive training on the perception and production of English vowels /ɪ/ and /i:/ by Cantonese ESL learners", 2113-2117.](#)

[Kartushina, Natalia / Frauenfelder, Ulrich Hans: "On the role of L1 speech production in L2 perception: evidence from Spanish learners of French", 2118-2122.](#)

[Hallé, Pierre / Kartushina, Natalia / Segui, Juan / Frauenfelder, Ulrich Hans: "Looking for lexical feedback effects in /t/→/k/ repairs", 2123-2127.](#)

[Best, Catherine T. / Shaw, Jason A. / Clancy, Elizabeth: "Recognizing words across regional accents: the role of perceptual assimilation in lexical competition", 2128-2132.](#)

Speech Disorders — Data and Methodology

[Martínez, David / Green, Phil D. / Christensen, H.: "Dysarthria intelligibility assessment in a factor analysis total variability space", 2133-2137.](#)

[Ghio, Alain / Gasquet-Cyrus, Médéric / Roquel, Juliette / Giovanni, Antoine: "Perceptual interference between regional accent and voice/speech disorders", 2138-2142.](#)

[Balčiūnienė, Ingrida: "Linguistic disfluency in narrative speech: evidence from story-telling in 6-year olds", 2143-2146.](#)

[Munson, Benjamin: "Assessing the utility of judgments of children's speech production made by untrained listeners in uncontrolled listening environments", 2147-2151.](#)

[Antolík, Tanja Kocjančič / Fougeron, Cécile: "Consonant distortions in dysarthria due to parkinson's disease, amyotrophic lateral sclerosis and cerebellar ataxia", 2152-2156.](#)

[Verdurand, Marine / Rossato, Solange / Granjon, Lionel / Balbo, Daria / Zmarich, Claudio: "Study of coarticulation and F2 transitions in French and Italian adult stutterers", 2157-2161.](#)

[Clapham, Renee P. / As-Brooks, Corina J. Van / Brekel, Michiel W. M. Van den / Hilgers, Frans J. M. / Son, Rob J. J. H. Van: "Automatic tracheoesophageal voice typing using acoustic parameters", 2162-2166.](#)

[Mauclair, Julie / Koenig, Lionel / Robert, Marina / Gatignol, Peggy: "Burst-based features for the classification of pathological voices", 2167-2171.](#)

[Helfer, Brian S. / Quatieri, Thomas F. / Williamson, James R. / Mehta, Daryush D. / Horwitz, Rachelle / Yu, Bea: "Classification of depression state based on articulatory precision", 2172-2176.](#)

[Fraser, Kathleen C. / Rudzicz, Frank / Rochon, Elizabeth: "Using text and acoustic features to diagnose progressive aphasia and its subtypes", 2177-2181.](#)

Search and Computational Issues in LVCSR

[Alumäe, Tanel: "Multi-domain neural network language model", 2182-2186.](#)

[Long, Y. / Gales, M. J. F. / Lanchantin, P. / Liu, X. / Seigel, M. S. / Woodland, P. C.: "Improving lightly supervised training for broadcast transcription", 2187-2191.](#)

[Cerisara, C. / Lorenzo, A. / Kral, P.: "Weakly supervised parsing with rules", 2192-2196.](#)

[Nussbaum-Thom, Markus / Beck, Eugen / Alkhouli, Tamer / Schlüter, Ralf / Ney, Hermann: "Relative error bounds for statistical classifiers based on the f-divergence", 2197-2201.](#)

[Premkumar, Melvin Jose Johnson / Vu, Ngoc Thang / Schultz, Tanja: "Experiments towards a better LVCSR system for tamil", 2202-2206.](#)

[Thangthai, Kwanchiva / Chotimongkol, Ananlada / Wutiwiwatchai, Chai: "A hybrid language model for open-vocabulary Thai LVCSR", 2207-2211.](#)

[Chien, Jen-Tzung / Chang, Ying-Lan: "Hierarchical pitman-yor and dirichlet process for language model", 2212-2216.](#)

[Asami, Taichi / Kobashikawa, Satoshi / Masataki, Hirokazu / Yoshioka, Osamu / Takahashi, Satoshi: "Unsupervised confidence calibration using examples of recognized words and their contexts", 2217-2221.](#)

[Tüske, Zoltán / Schlüter, Ralf / Ney, Hermann: "Multilingual hierarchical MRASTA features for ASR", 2222-2226.](#)

[Chang, Harry M.: "Heuristic selection of training sentences from historical TV guide for semi-supervised LM adaptation", 2227-2231.](#)

[Fohr, Dominique / Mella, Odile: "Combination of random indexing based language model and n-gram language model for speech recognition", 2232-2236.](#)

[Miao, Yajie / Metze, Florian: "Improving low-resource CD-DNN-HMM using dropout and multilingual DNN training", 2237-2241.](#)

[Qin, Long / Rudnicky, Alexander: "Finding recurrent out-of-vocabulary words", 2242-2246.](#)

[Chiu, Justin / Rudnicky, Alexander: "Using conversational word bursts in spoken term detection", 2247-2251.](#)

Speech and Hearing Disorders

[Acher, Audrey / Sato, Marc / Lamalle, Laurent / Vilain, Coriandre / Attye, Arnaud / Krainik, Alexandre /](#)

[Bettega, Georges / Righini, Christian Adrien / Carlot, Brice / Brix, Muriel / Perrier, Pascal: "Brain activations in speech recovery process after intra-oral surgery: an fMRI study", 2252-2256.](#)

[Mertens, Christophe / Schoentgen, Jean / Grenez, Francis / Skodda, Sabine: "Acoustic and perceptual analysis of vocal tremor", 2257-2261.](#)

[Tantibundhit, C. / Onsuwan, C. / Klangpornkun, N. / Phienphanich, P. / Saimai, T. / Saimai, N. / Pitathawatchai, P. / Wutiwwatchai, Chai: "Lexical tone perception in Thai normal-hearing adults and those using hearing aids: a case study", 2262-2266.](#)

[Kagomiya, Takayuki / Nakagawa, Seiji: "Evaluation of a bone-conducted ultrasonic hearing aid in vocal emotion transmission", 2267-2271.](#)

[Garrapa, Luigia / Bottari, Davide / Grimaldi, Mirko / Pavani, Francesco / Calabrese, Andrea / Benedetto, Michele De / Vitale, Silvano: "Processing of /i/ and /u/ in Italian cochlear-implant children: a behavioral and neurophysiologic study", 2272-2276.](#)

[Cosentino, Stefano / Falk, Tiago H. / McAlpine, David: "Predicting the bilateral advantage in cochlear implantees using a non-intrusive speech intelligibility measure", 2277-2281.](#)

Speech and Audio Segmentation

[Huang, Zhen / Cheng, You-Chi / Li, Kehuang / Hautamäki, Ville / Lee, Chin-Hui: "A blind segmentation approach to acoustic event detection based on i-vector", 2282-2286.](#)

[Vuuren, Van Zyl van / Bosch, Louis ten / Niesler, Thomas: "A dynamic programming framework for neural network-based automatic speech segmentation", 2287-2291.](#)

[Prasad, RaviShankar / Yegnanarayana, B.: "Acoustic segmentation of speech using zero time liffering \(ZTL\)", 2292-2296.](#)

[Wang, Haipeng / Lee, Tan / Leung, Cheung-Chi / Ma, Bin / Li, Haizhou: "Unsupervised mining of acoustic subword units with segment-level Gaussian posteriorgrams", 2297-2301.](#)

[Kalinli, Ozlem: "Combination of auditory attention features with phone posteriors for better automatic phoneme segmentation", 2302-2305.](#)

[Yuan, Jiahong / Ryant, Neville / Liberman, Mark / Stolcke, Andreas / Mitra, Vikramjit / Wang, Wen: "Automatic phonetic segmentation using boundary models", 2306-2310.](#)

Speech Synthesis — Various Topics

[Nguyen, Thi Thu Trang / D'Alessandro, Christophe / Rilliard, Albert / Tran, Do Dat: "HMM-based TTS for hanoi vietnamese: issues in design and evaluation", 2311-2315.](#)

[Raitio, Tuomo / Kane, John / Drugman, Thomas / Gobl, Christer: "HMM-based synthesis of creaky voice", 2316-2320.](#)

[Wang, Xiaoxuan / Sim, Khe Chai: "Integrating conditional random fields and joint multi-gram model with syllabic features for grapheme-to-phone conversion", 2321-2325.](#)

[Lehnen, Patrick / Allauzen, Alexandre / Lavergne, Thomas / Yvon, François / Hahn, Stefan / Ney, Hermann: "Structure learning in hidden conditional random fields for grapheme-to-phoneme conversion", 2326-2330.](#)

[Stan, Adriana / Watts, O. / Mamiya, Y. / Giurgiu, M. / Clark, Robert A. J. / Yamagishi, Junichi / King, Simon: "TUNDRA: a multilingual corpus of found data for TTS research created with light supervision", 2331-2335.](#)

[Maia, Ranniery / Gales, M. J. F. / Stylianou, Yannis / Akamine, Masami: "Minimum mean squared error based warped complex cepstrum analysis for statistical parametric speech synthesis", 2336-2340.](#)

ASR — Discriminative Training

[Hifny, Yasser: "Augmented conditional random fields modeling based on discriminatively trained features", 2341-2344.](#)

[Veselý, Karel / Ghoshal, Arnab / Burget, Lukáš / Povey, Daniel: "Sequence-discriminative training of deep neural networks", 2345-2349.](#)

[Zhang, Weibin / Fung, Pascale: "Discriminatively trained sparse inverse covariance matrices for low resource acoustic modeling", 2350-2354.](#)

[Tachioka, Yuuki / Watanabe, Shinji: "Discriminative training of acoustic models for system combination", 2355-2359.](#)

[Huang, Yan / Yu, Dong / Gong, Yifan / Liu, Chaojun: "Semi-supervised GMM and DNN acoustic model training with multi-system combination and confidence re-calibration", 2360-2364.](#)

[Xue, Jian / Li, Jinyu / Gong, Yifan: "Restructuring of deep neural network acoustic models with singular value decomposition", 2365-2369.](#)

L2 Acquisition, Multilingualism

[Chen, Nancy F. / Shivakumar, Vivaek / Harikumar, Mahesh / Ma, Bin / Li, Haizhou: "Large-scale characterization of Mandarin pronunciation errors made by native speakers of European languages", 2370-2374.](#)

[Delvaux, Véronique / Huet, Kathy / Piccaluga, Myriam / Harmegnies, Bernard: "Production training in second language acquisition: a comparison between objective measures and subjective judgments", 2375-2379.](#)

[Netelenbos, Nicole / Li, Fangfang: "The production and perception of voice onset time in English-speaking children enrolled in a French immersion program", 2380-2384.](#)

[Burgos, Pepi / Cucchiarini, Catia / Hout, Roeland van / Strik, Helmer: "Pronunciation errors by Spanish learners of Dutch: a data-driven study for ASR-based pronunciation training", 2385-2389.](#)

[Graham, Calbert / Post, Brechtje: "Realisation of tonal alignment in the English of Japanese-English late bilinguals", 2390-2394.](#)

[Benoist-lucy, Agathe / Pillot-Loiseau, Claire: "The influence of language and speech task upon creaky voice use among six young American women learning French", 2395-2399.](#)

Child Computer Interaction (Special Session)

[Bone, Daniel / Lee, Chi-Chun / Chaspari, Theodora / Black, Matthew P. / Williams, Marian E. / Lee, Sungbok / Levitt, Pat / Narayanan, Shrikanth: "Acoustic-prosodic, turn-taking, and language cues in child-psychologist interactions for varying social demand", 2400-2404.](#)

[Bořil, Hynek / Zhang, Qian / Angkititrakul, Pongtep / Hansen, John H. L. / Xu, Dongxin / Gilkerson, Jill / Richards, Jeffrey A.: "A preliminary study of child vocalization on a parallel corpus of US and shanghainese toddlers", 2405-2409.](#)

[Claus, Felix / Rosales, Hamurabi Gamboa / Petrick, Rico / Hain, Horst-Udo / Hoffmann, Rüdiger: "A survey about databases of children's speech", 2410-2414.](#)

[Kouloumenta, Vassiliki / Perakakis, Manolis / Potamianos, Alexandros: "Affective evaluation of multimodal dialogue games for preschoolers using physiological signals", 2415-2419.](#)

[Alam, Md. Jahangir / Attabi, Yazid / Dumouchel, Pierre / Kenny, Patrick / O'Shaughnessy, Douglas: "Amplitude modulation features for emotion recognition from speech", 2420-2424.](#)

[Bone, Daniel / Lee, Chi-Chun / Ramanarayanan, Vikram / Narayanan, Shrikanth / Hoedemaker, Renske S. / Gordon, Peter C.: "Analyzing eye-voice coordination in rapid automatized naming", 2425-2429.](#)

[Chaspari, Theodora / Provost, Emily Mower / Narayanan, Shrikanth: "Analyzing the structure of parent-moderated narratives from children with ASD using an entity-based approach", 2430-2434.](#)

[Evanini, Keelan / Wang, Xinhao: "Automated speech scoring for non-native middle school students with multiple task types", 2435-2439.](#)

[Safavi, Saeid / Jančovič, Peter / Russell, Martin / Carey, Michael: "Identification of gender from children's speech by computers and humans", 2440-2444.](#)

[Arai, Takayuki: "On why Japanese /r/ sounds are difficult for children to acquire", 2445-2449.](#)

Dialog Systems and Applications I, II

[Yao, Kaisheng / Zweig, Geoffrey / Hwang, Mei-Yuh / Shi, Yangyang / Yu, Dong: "Recurrent neural networks for language understanding", 2524-2528.](#)

[Riedhammer, Korbinian / Do, Van Hai / Hieronymus, James: "A study on LVCSR and keyword search for tagalog", 2529-2533.](#)

[Alghowinem, Sharifa / Goecke, Roland / Wagner, Michael / Epps, Julien / Parker, Gordon / Breakspear, Michael: "Characterising depressed speech for classification", 2534-2538.](#)

[Bigot, Benjamin / Senay, Grégory / Linarès, Georges / Fredouille, Corinne / Dufour, Richard: "Combining acoustic name spotting and continuous context models to improve spoken person name recognition in speech", 2539-2543.](#)

[Chen, I-Fan / Lee, Chin-Hui: "A resource-dependent approach to word modeling for keyword spotting", 2544-2548.](#)

[Womack, Kathryn / Alm, Cecilia Ovesdotter / Calvelli, Cara / Pelz, Jeff B. / Shi, Pengcheng / Haake, Anne: "Markers of confidence and correctness in spoken medical narratives", 2549-2553.](#)

[Nakamura, Ibuki / Minematsu, Nobuaki / Suzuki, Masayuki / Hirano, Hiroko / Nakagawa, Chieko / Nakamura, Noriko / Tagawa, Yukinori / Hirose, Keikichi / Hashimoto, Hiroya: "Development of a web framework for teaching and learning Japanese prosody: OJAD \(online Japanese accent dictionary\)", 2554-2558.](#)

[Shriberg, Elizabeth / Stolcke, Andreas / Ravuri, Suman: "Addressee detection for dialog systems using temporal and spectral dimensions of speaking style", 2559-2563.](#)

[Hatano, Hiroaki / Kiso, Miyako / Ishi, Carlos T.: "Analysis of factors involved in the choice of rising or non-rising intonation in question utterances appearing in conversational speech", 2564-2568.](#)

[Celikyilmaz, Asli / Tur, Gokhan / Hakkani-Tür, Dilek: "IsNL? a discriminative approach to detect natural language like queries for conversational understanding", 2569-2573.](#)

[Cheng, Jian / Bojja, Nikhil / Chen, Xin: "Automatic accent quantification of indian speakers of English", 2574-2578.](#)

[Tur, Gokhan / Deoras, Anoop / Hakkani-Tür, Dilek: "Semantic parsing using word confusion networks with conditional random fields", 2579-2583.](#)

[Strömbergsson, Sofia / Hjalmarsson, Anna / Edlund, Jens / House, David: "Timing responses to questions in dialogue", 2584-2588.](#)

[Karafiát, Martin / Grézl, František / Hannemann, Mirko / Veselý, Karel / Černocký, Jan: "BUT BABEL system for spontaneous Cantonese", 2589-2593.](#)

[Norouzian, Atta / Rose, Richard C. / Jansen, Aren: "Semi-supervised manifold learning approaches for](#)

[spoken term verification", 2594-2598.](#)

[Li, Ying / Fung, Pascale: "Language modeling for mixed language speech recognition using weighted phrase extraction", 2599-2603.](#)

[Strömbergsson, Sofia / Tännander, Christina: "Correlates to intelligibility in deviant child speech — comparing clinical evaluations to audience response system-based evaluations by untrained listeners", 3717-3721.](#)

[Womack, Kathryn / Alm, Cecilia Ovesdotter / Calvelli, Cara / Pelz, Jeff B. / Shi, Pengcheng / Haake, Anne: "Using linguistic analysis to characterize conceptual units of thought in spoken medical narratives", 3722-3726.](#)

[Cutugno, Francesco / Finzi, Alberto / Fiore, Michelangelo / Leone, Enrico / Rossi, Silvia: "Interacting with robots via speech and gestures, an integrated architecture", 3727-3731.](#)

[Hatmi, Mohamed / Jacquin, Christine / Morin, Emmanuel / Meignier, Sylvain: "Incorporating named entity recognition into the speech transcription process", 3732-3736.](#)

[Ohno, Teppei / Akiba, Tomoyosi: "DTW-distance-ordered spoken term detection", 3737-3741.](#)

[Jung, Sangkeun / Na, Seung-Hoon: "Refining sentence similarity with discourse information in dialog system", 3742-3746.](#)

[Nakatani, Ryohei / Takiguchi, Tetsuya / Ariki, Yasuo: "Two-step correction of speech recognition errors based on n-gram and long contextual information", 3747-3750.](#)

[Negi, Sumit / Balasubramanyan, Ramnath / Chaudhury, Santanu: "Inferring actor communities from videos", 3751-3755.](#)

[Bost, Xavier / El-Beze, Marc / Mori, Renato De: "Multiple topic identification in telephone conversations", 3756-3760.](#)

[Chen, Wei / Ananthakrishnan, Sankaranarayanan / Prasad, Rohit / Natarajan, Prem: "Variable-Span out-of-vocabulary named entity detection", 3761-3765.](#)

[Kun, Andrew L. / Palinko, Oskar / Medenica, Zeljko / Heeman, Peter A.: "On the feasibility of using pupil diameter to estimate cognitive load changes for in-vehicle spoken dialogues", 3766-3770.](#)

[Mesnil, Grégoire / He, Xiaodong / Deng, Li / Bengio, Yoshua: "Investigation of recurrent-neural-network architectures and learning methods for spoken language understanding", 3771-3775.](#)

[Liu, Xiaohu / Sarikaya, Ruhi / Brockett, Chris / Quirk, Chris / Dolan, William B.: "Paraphrase features to improve natural language understanding", 3776-3779.](#)

[Hakkani-Tür, Dilek / Celikyilmaz, Asli / Heck, Larry / Tur, Gokhan: "A weakly-supervised approach for discovering new user intents from search query logs", 3780-3784.](#)

[Xu, Puyang / Sarikaya, Ruhi: "Exploiting shared information for multi-intent natural language sentence classification", 3785-3789.](#)

Spoken Machine Translation and Speech Natural Language Processing I, II

[Skowronek, Janto / Herlinghaus, Julian / Raake, Alexander: "Quality assessment of asymmetric multiparty telephone conferences: a systematic method from technical degradations to perceived impairments", 2604-2608.](#)

[Imoto, Keisuke / Shimauchi, Suehiro / Uematsu, Hisashi / Ohmuro, Hitoshi: "User activity estimation method based on probabilistic generative model of acoustic event sequence with user activity and its subordinate categories", 2609-2613.](#)

[Kano, Takatomo / Takamichi, Shinnosuke / Sakti, Sakriani / Neubig, Graham / Toda, Tomoki /](#)

[Nakamura, Satoshi: "Generalizing continuous-space translation of paralinguistic information", 2614-2618.](#)

[Ohgushi, Masaya / Neubig, Graham / Sakti, Sakriani / Toda, Tomoki / Nakamura, Satoshi: "An empirical comparison of joint optimization techniques for speech translation", 2619-2623.](#)

[Ostendorf, Mari / Hahn, Sangyun: "A sequential repetition model for improved disfluency detection", 2624-2628.](#)

[Medeiros, Henrique / Moniz, Helena / Batista, Fernando / Trancoso, Isabel / Nunes, Luis: "Disfluency detection based on prosodic features for university lectures", 2629-2633.](#)

[Meyer, Bernd T.: "What's the difference? comparing humans and machines on the Aurora 2 speech recognition task", 2634-2638.](#)

[Gubian, Michele / Boves, Lou / Versteegh, Maarten: "Calibration of distance measures for unsupervised query-by-example", 2639-2643.](#)

[Castan, Diego / Akbacak, Murat: "Indexing multimedia documents with acoustic concept recognition lattices", 2644-2648.](#)

[Kousidis, Spyros / Pfeiffer, Thies / Schlangen, David: "MINT.tools: tools and adaptors supporting acquisition, annotation and analysis of multimodal corpora", 2649-2653.](#)

[Favre, Benoit / Cheung, Kyla / Kazemian, Siavash / Lee, Adam / Liu, Yang / Munteanu, Cosmin / Nenkova, Ani / Ochei, Dennis / Penn, Gerald / Tratz, Stephen / Voss, Clare / Zeller, Frauke: "Automatic human utility evaluation of ASR systems: does WER really predict performance?", 3463-3467.](#)

[Sridhar, Vivek Kumar Rangarajan / Chen, John / Bangalore, Srinivas: "Corpus analysis of simultaneous interpretation data for improving real time speech translation", 3468-3472.](#)

[Cho, Eunah / Fügen, Christian / Hermann, Teresa / Kilgour, Kevin / Mediani, Mohammed / Mohr, Christian / Niehues, Jan / Rottmann, Kay / Saam, Christian / Stüker, Sebastian / Waibel, Alex: "A real-world system for simultaneous translation of German lectures", 3473-3477.](#)

[Wu, Dekai / Addanki, Karteek / Saers, Markus: "Freestyle: a challenge-response system for hip hop lyrics via unsupervised induction of stochastic transduction grammars", 3478-3482.](#)

[Tsiartas, Andreas / Georgiou, Panayiotis G. / Narayanan, Shrikanth: "Toward transfer of acoustic cues of emphasis across languages", 3483-3486.](#)

[Fujita, Tomoki / Neubig, Graham / Sakti, Sakriani / Toda, Tomoki / Nakamura, Satoshi: "Simple, lexicalized choice of translation timing for simultaneous speech translation", 3487-3491.](#)

Language Model Adaptation

[Haidar, Md. Akmal / O'Shaughnessy, Douglas: "Fitting long-range information using interpolated distanced n-grams and cache models into a latent dirichlet language model for speech recognition", 2678-2682.](#)

[Chen, Yi-Wen / Hao, Bo-Han / Chen, Kuan-Yu / Chen, Berlin: "Incorporating proximity information for relevance language modeling in speech recognition", 2683-2687.](#)

[Bayer, Ali Orkan / Riccardi, G.: "Instance-based on-line language model adaptation", 2688-2692.](#)

[Mansikkaniemi, André / Kurimo, Mikko: "Unsupervised topic adaptation for morph-based speech recognition", 2693-2697.](#)

[Schlippe, Tim / Gren, Lukasz / Vu, Ngoc Thang / Schultz, Tanja: "Unsupervised language model adaptation for automatic speech recognition of broadcast news using web 2.0", 2698-2702.](#)

[Wen, Tsung-Hsien / Heidel, Aaron / Lee, Hung-yi / Tsao, Yu / Lee, Lin-shan: "Recurrent neural network](#)

[based language model personalization by social network crowdsourcing", 2703-2707.](#)

Spoken Language Summarization and Understanding

[Ayadi, Moataz El / Afify, Mohamed: "Language-independent call routing using the large margin estimation principle", 2708-2712.](#)

[Deoras, Anoop / Sarikaya, Ruhi: "Deep belief network based semantic taggers for spoken language understanding", 2713-2717.](#)

[Jabaian, Bassam / Lefèvre, Fabrice: "Error-corrective discriminative joint decoding of automatic spoken language transcription and understanding", 2718-2722.](#)

[Lai, Catherine / Carletta, Jean / Renals, Steve: "Detecting summarization hot spots in meetings using group level involvement and turn-taking features", 2723-2727.](#)

[Shiang, Sz-Rung / Lee, Hung-yi / Lee, Lin-shan: "Supervised spoken document summarization based on structured support vector machine with utterance clusters as hidden variables", 2728-2732.](#)

[Klasinas, Ioannis / Potamianos, Alexandros / Iosif, Elias / Georgiladakis, Spiros / Mameli, Gianluca: "Web data harvesting for speech understanding grammar induction", 2733-2737.](#)

Speech Synthesis — Multimodal and Articulatory Synthesis

[Toutios, Asterios / Narayanan, Shrikanth: "Articulatory synthesis of French connected speech from EMA data", 2738-2742.](#)

[Zhang, Xinjian / Wang, Lijuan / Li, Gang / Seide, Frank / Soong, Frank K.: "A new language independent, photo-realistic talking head driven by voice only", 2743-2747.](#)

[Wang, Chaoyang / Wang, Lijuan / Matsushita, Yasuyuki / Huang, Bojun / Chen, Magnetro / Soong, Frank K.: "Binocular photometric stereo acquisition and reconstruction for 3d talking head applications", 2748-2752.](#)

[Hueber, Thomas / Bailly, Gérard / Badin, Pierre / Elisei, Frédéric: "Speaker adaptation of an acoustic-articulatory inversion model using cascaded Gaussian mixture regressions", 2753-2757.](#)

[Ben-Youssef, Atef / Shimodaira, Hiroshi / Braude, David Adam: "Articulatory features for speech-driven head motion synthesis", 2758-2762.](#)

[Braude, David Adam / Shimodaira, Hiroshi / Ben-Youssef, Atef: "Template-warping based speech driven head motion synthesis", 2763-2767.](#)

Speaker Diarization and Recognition

[Larcher, Anthony / Bonastre, Jean-Francois / Fauve, Benoit / Lee, Kong Aik / Lévy, Christophe / Li, Haizhou / Mason, John S. D. / Parfait, Jean-Yves: "ALIZE 3.0 — open source toolkit for state-of-the-art speaker recognition", 2768-2772.](#)

[Senoussaoui, Mohammed / Kenny, Patrick / Dumouchel, Pierre / Dehak, Najim: "New cosine similarity scorings to implement gender-independent speaker verification", 2773-2777.](#)

[Charlet, Delphine / Fredouille, Corinne / Damnati, Géraldine / Senay, Grégory: "Improving speaker identification in TV-shows using person name detection in overlaid text and speech", 2778-2782.](#)

[Knox, Mary Tai / Mirghafori, Nikki / Friedland, Gerald: "Exploring methods of improving speaker accuracy for speaker diarization", 2783-2787.](#)

[Price, Ryan / Biswas, Sangeeta / Shinoda, Koichi: "Combining deep speaker specific representations with GMM-SVM for speaker verification", 2788-2792.](#)

[Schindler, Carola / Draxler, Christoph: "Using spectral moments as a speaker specific feature in nasals and fricatives", 2793-2796.](#)

Models of Speech Perception

[Laurent, Raphaël / Schwartz, Jean-Luc / Bessière, Pierre / Diard, Julien: "A computational model of perceptuo-motor processing in speech perception: learning to imitate and categorize synthetic CV syllables", 2797-2801.](#)

[Theodore, Rachel M.: "Talker-specific perceptual processing: influences on internal category structure", 2802-2806.](#)

[Lecumberri, Maria Luisa García / Tóth, Attila Máté / Tang, Yan / Cooke, Martin: "Elicitation and analysis of a corpus of robust noise-induced word misperceptions in Spanish", 2807-2811.](#)

[Cutler, Anne / Bruggeman, Laurence: "Vocabulary structure and spoken-word recognition: evidence from French reveals the source of embedding asymmetry", 2812-2816.](#)

[Bagou, Odile / Frauenfelder, Ulrich Hans: "How do multiple sublexical cues converge in lexical segmentation? an artificial language learning study", 2817-2821.](#)

[Bosch, Louis ten / Boves, Lou / Ernestus, Mirjam: "Towards an end-to-end computational model of speech comprehension: simulating a lexical decision task", 2822-2826.](#)

Speech and Audio Signal Processing

[Athanasopoulos, Georgios / Verhelst, Werner: "A phase-modified approach for TDE-based acoustic localization", 2890-2894.](#)

[Xue, Wei / Liang, Shan / Liu, Wenju: "Interference robust DOA estimation of human speech by exploiting historical information and temporal correlation", 2895-2899.](#)

[Harte, Naomi / Murphy, Sadhbh / Kelly, David J. / Marples, Nicola M.: "Identifying new bird species from differences in birdsong", 2900-2904.](#)

[Nishigaki, Yuri / Sakakibara, Ken-Ichi / Morise, Masanori / Nisimura, Ryuichi / Irino, Toshio / Kawahara, Hideki: "Controlling "shout" expression in a Japanese POP singing performance: analysis and suppression study", 2905-2909.](#)

[Mehrabani, Mahnoosh / Hansen, John H. L.: "Dimensionality analysis of singing speech based on locality preserving projections", 2910-2914.](#)

[Molla, Md. Khademul Islam / Hirose, Keikichi: "Audio classification using dominant spatial patterns in time-frequency space", 2915-2919.](#)

[Lin, Tse-En / Hsu, Chung-Chien / Chen, Yi-Cheng / Chen, Jian-Hueng / Chi, Tai-Shih: "Spectro-temporal modulation based singing detection combined with pitch-based grouping for singing voice separation", 2920-2923.](#)

[Ludeña-Choez, Jimmy / Gallardo-Antolín, Ascensión: "NMF-based temporal feature integration for acoustic event classification", 2924-2928.](#)

[Rawat, Shourabh / Schulam, Peter F. / Burger, Susanne / Ding, Duo / Wang, Yipei / Metze, Florian: "Robust audio-codebooks for large-scale event detection in consumer videos", 2929-2933.](#)

[Altaf, M. Umair Bin / Butko, Taras / Juang, Bing-Hwang: "Person identification using biometric markers from footsteps sound", 2934-2938.](#)

[Młynarski, Wiktor: "Learning binaural spectrogram features for azimuthal speaker localization", 2939-2942.](#)

[Oualil, Youssef / Faubel, Friedrich / Klakow, Dietrich: "An unsupervised Bayesian classifier for multiple speaker detection and localization", 2943-2947.](#)

[Chakraborty, Rupayan / Nadeu, Climent: "Joint recognition and direction-of-arrival estimation of simultaneous meeting-room acoustic events", 2948-2952.](#)

[Zhuang, Xiaodan / Wu, Shuang / Natarajan, Pradeep / Prasad, Rohit / Natarajan, Prem: "Audio self organized units for high-level event detection", 2953-2957.](#)

Linguistic Systems, Phonetics-Phonology Interface

[Maddieson, Ian / Flavier, Sébastien / Marsico, Egidio / Coupé, Christophe / Pellegrino, François: "LAPSyd: Lyon-albuquerque phonological systems database", 3022-3026.](#)

[Barbosa, Plínio A.: "The duration compensation issue revisited", 3027-3031.](#)

[Oh, Yoon Mi / Pellegrino, François / Coupé, Christophe / Marsico, Egidio: "Cross-language comparison of functional load for vowels, consonants, and tones", 3032-3036.](#)

[Maekawa, Kikuo: "Notes on so-called inter-speaker difference in spontaneous speech: the case of Japanese voiced obstruent", 3037-3041.](#)

[Carignan, Christopher / Shosted, Ryan K. / Fu, Maojing / Liang, Zhi-Pei / Sutton, Bradley P.: "The role of the pharynx and tongue in enhancement of vowel nasalization: a real-time MRI investigation of French nasal vowels", 3042-3046.](#)

[Renwick, Margaret E. L. / Baghai-Ravary, Ladan / Temple, Rosalind / Coleman, John S.: "Assimilation of word-final nasals to following word-initial place of articulation in UK English", 3047-3051.](#)

Speech Synthesis — Voice Conversion

[Chen, Ling-Hui / Ling, Zhen-Hua / Song, Yan / Dai, Li-Rong: "Joint spectral distribution modeling using restricted boltzmann machines for voice conversion", 3052-3056.](#)

[Wu, Zhizheng / Virtanen, Tuomas / Kinnunen, Tomi / Chng, Eng Siong / Li, Haizhou: "Exemplar-based unit selection for voice conversion utilizing temporal information", 3057-3061.](#)

[Hwang, Hsin-Te / Tsao, Yu / Wang, Hsin-Min / Wang, Yih-Ru / Chen, Sin-Horng: "Alleviating the over-smoothing problem in GMM-based voice conversion with discriminative training", 3062-3066.](#)

[Tanaka, Kou / Toda, Tomoki / Neubig, Graham / Sakti, Sakriani / Nakamura, Satoshi: "A hybrid approach to electrolaryngeal speech enhancement based on spectral subtraction and statistical voice conversion", 3067-3071.](#)

[Moriguchi, Takuto / Toda, Tomoki / Sano, Motoaki / Sato, Hiroshi / Neubig, Graham / Sakti, Sakriani / Nakamura, Satoshi: "A digital signal processor implementation of silent/electrolaryngeal speech enhancement based on real-time statistical voice conversion", 3072-3076.](#)

[Aryal, Sandesh / Felps, Daniel / Gutierrez-Osuna, Ricardo: "Foreign accent conversion through voice morphing", 3077-3081.](#)

Large Vocabulary Continuous Speech Recognition Systems

[Audhkhasi, Kartik / Zavou, Andreas M. / Georgiou, Panayiotis G. / Narayanan, Shrikanth: "Empirical link between hypothesis diversity and fusion performance in an ensemble of automatic speech recognition systems", 3082-3086.](#)

[Bell, Peter / Yamamoto, Hitoshi / Swietojanski, Pawel / Wu, Youzheng / McInnes, Fergus / Hori, Chiori / Renals, Steve: "A lecture transcription system combining neural network acoustic and language models", 3087-3091.](#)

[Soltau, Hagen / Kuo, Hong-Kwang / Mangu, Lidia / Saon, George / Beran, Tomas: "Neural network acoustic models for the DARPA RATS program", 3092-3096.](#)

[Ueffing, Nicola / Bisani, Maximilian / Vozila, Paul: "Improved models for automatic punctuation prediction for spoken and written text", 3097-3101.](#)

[Roy, Anindya / Lamel, Lori / Fraga-Silva, Thiago / Gauvain, Jean-Luc / Oparin, Ilya: "Some issues affecting the transcription of Hungarian broadcast audio", 3102-3106.](#)

[Golik, Pavel / Tüske, Zoltán / Schlüter, Ralf / Ney, Hermann: "Development of the RWTH transcription system for slovenian", 3107-3111.](#)

Robust Speaker Recognition I, II

[Kanda, Naoyuki / Takeda, Ryu / Obuchi, Yasunari: "Noise robust speaker verification with delta cepstrum normalization", 3112-3116.](#)

[Vandyke, David / Wagner, Michael / Goecke, Roland: "R-norm: improving inter-speaker variability modelling at the score level via regression score normalisation", 3117-3121.](#)

[Kinnunen, Tomi / Alam, Md. Jahangir / Matějka, Pavel / Kenny, Patrick / Černocký, Jan / O'Shaughnessy, Douglas: "Frequency warping and robust speaker verification: a comparison of alternative mel-scale representations", 3122-3126.](#)

[Hasan, Taufiq / Hansen, John H. L.: "Acoustic factor analysis based universal background model for robust speaker verification in noise", 3127-3131.](#)

[Villalba, Jesús / Lleida, Eduardo / Ortega, Alfonso / Miguel, Antonio: "A new Bayesian network to assess the reliability of speaker verification decisions", 3132-3136.](#)

[Zhu, Weizhong / Yaman, Sibel / Pelecanos, Jason: "The IBM RATS phase II speaker recognition system: overview and analysis", 3137-3141.](#)

[Lee, Kong Aik / Larcher, Anthony / You, Chang Huai / Ma, Bin / Li, Haizhou: "Multi-session PLDA scoring of i-vector for partially open-set speaker detection", 3651-3655.](#)

[Godin, Keith W. / Sadjadi, Seyed Omid / Hansen, John H. L.: "Impact of noise reduction and spectrum estimation on noise robust speaker identification", 3656-3660.](#)

[Yamada, Takanori / Wang, Longbiao / Kai, Atsuhiko: "Improvement of distant-talking speaker identification using bottleneck features of DNN", 3661-3664.](#)

[Brutti, Alessio / Omologo, Maurizio: "Geometric contamination for GMM/UBM speaker verification in reverberant environments", 3665-3669.](#)

[McClanahan, Richard D. / Leon, Phillip L. De: "Towards a more efficient SVM supervector speaker verification system using Gaussian reduction and a tree-structured hash", 3670-3673.](#)

[Kanagasundaram, A. / Dean, D. / Gonzalez-Dominguez, Javier / Sridharan, S. / Ramos, D. / Gonzalez-Rodriguez, Joaquin: "Improving the PLDA based speaker verification in limited microphone data conditions", 3674-3678.](#)

[Villalba, Jesús / Lleida, Eduardo / Ortega, Alfonso / Miguel, Antonio: "The I3a speaker recognition system for NIST SRE12: post-evaluation analysis", 3679-3683.](#)

[Stafylakis, T. / Kenny, Patrick / Ouellet, P. / Perez, J. / Kockmann, M. / Dumouchel, Pierre: "Text-dependent speaker recognition using PLDA with uncertainty propagation", 3684-3688.](#)

[Mallidi, Sri Harish / Ganapathy, Sriram / Hermansky, Hynek: "Robust speaker recognition using spectro-temporal autoregressive models", 3689-3693.](#)

[Rajan, Padmanabhan / Kinnunen, Tomi / Hautamäki, Ville: "Effect of multicondition training on i-vector](#)

[PLDA configurations for speaker recognition", 3694-3697.](#)

[McLaren, Mitchell / Abrash, Victor / Graciarena, Martin / Lei, Yun / Pešán, Jan: "Improving robustness to compressed speech in speaker recognition", 3698-3702.](#)

[Mitra, Vikramjit / McLaren, Mitchell / Franco, Horacio / Graciarena, Martin / Scheffer, Nicolas: "Modulation features for noise robust speaker identification", 3703-3707.](#)

[Hautamäki, Ville / Cheng, You-Chi / Rajan, Padmanabhan / Lee, Chin-Hui: "Minimax i-vector extractor for short duration speaker verification", 3708-3712.](#)

[Fowler, Mike / McCurry, Mark / Bramsen, Jonathan / Dunsin, Kehinde / Remus, Jeremiah: "Standoff speaker recognition: effects of recording distance mismatch on speaker recognition system performance", 3713-3716.](#)

Acoustic and Articulatory Cues in Speech Perception

[Shaw, Jason A. / Tyler, Michael D. / Kasisopa, Benjawan / Ma, Yuan / Proctor, Michael / Han, Chong / Derrick, Donald / Burnham, Denis: "Vowel identity conditions the time course of tone recognition", 3142-3146.](#)

[Scharenborg, Odette / Janse, Esther: "Changes in the role of intensity as a cue for fricative categorisation", 3147-3151.](#)

[Yasu, Keiichi / Arai, Takayuki / Kobayashi, Kei / Shindo, Mitsuko: "Weighting of acoustic cues shifts to frication duration in identification of fricatives/affricates when auditory properties are degraded due to aging", 3152-3156.](#)

[Gao, Jiayin / Hallé, Pierre: "Duration as a secondary cue for perception of voicing and tone in shanghai Chinese", 3157-3161.](#)

[Dekerle, Marie / Meunier, Fanny / N'Guyen, Marie-Ange / Gillet-Perret, Estelle / Lassus-Sangosse, Delphine / Donnadieu, Sophie: "Development of central auditory processes and their links with language skills in typically developing children", 3162-3166.](#)

[Varnet, Léo / Knoblauch, Kenneth / Meunier, Fanny / Hoen, Michel: "Show me what you listen to! auditory classification images can reveal the processing of fine acoustic cues during speech categorization", 3167-3171.](#)

Speech Production — Data and Models

[Brackhane, Fabian / Trouvain, Jürgen: "The organ stop "vox humana" as a model for a vowel synthesiser", 3172-3176.](#)

[Ghosh, Prasanta Kumar / Narayanan, Shrikanth: "Information theoretic acoustic feature selection for acoustic-to-articulatory inversion", 3177-3181.](#)

[Fejlová, Dita / Lukeš, David / Skarnitzl, Radek: "Formant contours in Czech vowels: speaker-discriminating potential", 3182-3186.](#)

[Liu, Shen / Wei, Jianguo / Wang, Xin / Lu, Wenhuan / Fang, Qiang / Dang, Jianwu: "An anisotropic diffusion filter based on multidirectional separability", 3187-3190.](#)

[Skarnitzl, Radek / Šturm, Pavel / Machač, Pavel: "The phonological voicing contrast in Czech: an EPG study of phonated and whispered fricatives", 3191-3195.](#)

[Maeda, Shinji / Laprie, Yves: "Vowel and prosodic factor dependent variations of vocal-tract length", 3196-3200.](#)

[Grootswagers, Tjil / Dijkstra, Karen / Bosch, Louis ten / Brandmeyer, Alex / Sadakata, Makiko: "Word identification using phonetic features: towards a method to support multivariate fMRI speech decoding",](#)

[3201-3205.](#)

[Gowda, Dhananjaya / Kurimo, Mikko: "Analysis of breathy, modal and pressed phonation based on low frequency spectral density", 3206-3210.](#)

[Tajima, Keiichi / Tanaka, Kuniyoshi / Martin, Andrew / Mazuka, Reiko: "Is the vowel length contrast in Japanese exaggerated in infant-directed speech?", 3211-3215.](#)

[Chen, Gang / Samlan, Robin A. / Kreiman, Jody / Alwan, Abeer: "Investigating the relationship between glottal area waveform shape and harmonic magnitudes through computational modeling and laryngeal high-speed videoendoscopy", 3216-3220.](#)

[Kim, Jonathan C. / Rao, Hrishikesh / Clements, Mark A.: "Formant frequency tracking using Gaussian mixtures with maximum a posteriori adaptation", 3221-3225.](#)

[Yasuda, Rei / Zimmerer, Frank: "Devoicing of vowels in German, a comparison of Japanese and German speakers", 3226-3229.](#)

[Smith, Caitlin / Lammert, Adam: "Identifying consonantal tasks via measures of tongue shaping: a real-time MRI investigation of the production of vocalized syllabic /l/ in American English", 3230-3233.](#)

Speech Enhancement

[Deng, Feng / Bao, Chang-chun / Bao, Feng: "A speech enhancement method by coupling speech detection and spectral amplitude estimation", 3234-3238.](#)

[Zheng, Chenxi / Chan, Wai-Yip: "Late reverberation suppression using MMSE modulation spectral estimation", 3239-3243.](#)

[Turan, M. A. Tuğtekin / Erzin, Engin: "A new statistical excitation mapping for enhancement of throat microphone recordings", 3244-3248.](#)

[Roman, Nicoleta / Mandel, Michael I.: "Classification based binaural dereverberation", 3249-3253.](#)

[Kim, Seon Man / Kim, Hong Kook: "Target-to-non-target directional ratio estimation based on dual-microphone phase differences for target-directional speech enhancement", 3254-3258.](#)

[Lu, Xugang / Matsuda, Shigeki / Hori, Chiori: "Speech spectrum restoration based on conditional restricted boltzmann machine", 3259-3263.](#)

[Khan, Faheem / Milner, Ben: "Speaker separation using visual speech features and single-channel audio", 3264-3268.](#)

[Chuang, Wei-Lun / Cheong, Kah-Meng / Hsu, Chung-Chien / Chi, Tai-Shih: "Spectral modulation sensitivity based perceptual acoustic echo cancellation", 3269-3273.](#)

[Abrol, Vinayak / Sharma, Pulkit / Sao, Anil Kumar: "Speech enhancement using compressed sensing", 3274-3278.](#)

[Grais, Emad M. / Erdogan, Hakan: "Spectro-temporal post-enhancement using MMSE estimation in NMF based single-channel source separation", 3279-3283.](#)

[Kaewtip, Kantapon / Tan, Lee Ngee / Alwan, Abeer: "A pitch-based spectral enhancement technique for robust speech processing", 3284-3288.](#)

[McCallum, Matthew / Guillemin, Bernard: "Stochastic-deterministic signal modelling for the tracking of pitch in noise and speech mixtures using factorial HMMs", 3289-3293.](#)

[Maymon, Shay / Marcheret, Etienne / Goel, Vaibhava: "Restoration of clipped signals with application to speech recognition", 3294-3297.](#)

[Uezu, Yasufumi / Kinoshita, Keisuke / Souden, Mehrez / Nakatani, Tomohiro: "On the robustness of](#)

[distributed EM based BSS in asynchronous distributed microphone array scenarios", 3298-3302.](#)

ASR — Acoustic Modeling

[Yang, Jingzhou / Dalen, Rogier C. van / Gales, M. J. F.: "Infinite support vector machines in speech recognition", 3303-3307.](#)

[Giuliani, Diego / Brugnara, Fabio: "An on-line incremental speaker adaptation technique for audio stream transcription", 3308-3312.](#)

[Telaar, Dominic / Fuhs, Mark C.: "Accent- and speaker-specific polyphone decision trees for non-native speech recognition", 3313-3316.](#)

[Wiesler, Simon / Li, Jinyu / Xue, Jian: "Investigations on hessian-free optimization for cross-entropy training of deep neural networks", 3317-3321.](#)

[Saiko, Masahiro / Matsuda, Shigeki / Hanazawa, Ken / Isotani, Ryosuke / Hori, Chiori: "Cross-lingual acoustic model adaptation based on transfer vector field smoothing with MAP", 3322-3326.](#)

[Fujimura, Hiroshi / Shinohara, Yusuke / Masuko, Takashi: "N-best rescoring by phoneme classifiers using subclass adaboost algorithm", 3327-3331.](#)

[Ogawa, Tetsuji / Li, Feipeng / Hermansky, Hynek: "Stream selection and integration in multistream ASR using GMM-based performance monitoring", 3332-3336.](#)

[Yoma, Néstor Becerra / Garretón, Claudio / Huenupán, Fernando / Catalán, Ignacio / Wuth, Jorge: "VTLN based on the linear interpolation of contiguous mel filter-bank energies", 3337-3341.](#)

[Triefenbach, Fabian / Jalalvand, Azarakhsh / Demuynck, Kris / Martens, Jean-Pierre: "Context-dependent modeling and speaker normalization applied to reservoir-based phone recognition", 3342-3346.](#)

[Fraga-Silva, Thiago / Gauvain, Jean-Luc / Lamel, Lori: "Interpolation of acoustic models for speech recognition", 3347-3351.](#)

[Tahir, M. / Huang, H. / Schlüter, Ralf / Ney, Hermann / Bosch, Louis ten / Cranen, Bert / Boves, Lou: "Training log-linear acoustic models in higher-order polynomial feature space for speech recognition", 3352-3355.](#)

[Parinam, Venkata Neelima / Vootkuri, Chandra / Zahorian, Stephen A.: "Comparison of spectral analysis methods for automatic speech recognition", 3356-3360.](#)

[Sanand, D. R. / Svendsen, T.: "Synthetic speaker models using VTLN to improve the performance of children in mismatched speaker conditions for ASR", 3361-3365.](#)

[Abdel-Hamid, Ossama / Deng, Li / Yu, Dong: "Exploring convolutional neural network structures and optimization techniques for speech recognition", 3366-3370.](#)

Special Event: ESCA/ISCA Anniversary

[Mariani, Joseph / Paroubek, Patrick / Francopoulo, Gil / Delaborde, Marine: "Rediscovering 25 years of discoveries in spoken language processing: a preliminary ISCA archive analysis", 3371-3403.](#)

[Fujisaki, Hiroya: "An inter- and cross-disciplinary perspective of spoken language processing", 4005.](#)

[Moore, Roger K.: "Progress and prospects for speech technology: what ordinary people think", 4006.](#)

Language Modeling for Conversational Speech

[Shaik, M. Ali Basha / Mousa, Amr El-Desoky / Schlüter, Ralf / Ney, Hermann: "Feature-rich sub-lexical language models using a maximum entropy approach for German LVCSR", 3404-3408.](#)

[Mousa, Amr El-Desoky / Shaik, M. Ali Basha / Schlüter, Ralf / Ney, Hermann: "Morpheme level hierarchical pitman-yor class-based language models for LVCSR of morphologically rich languages", 3409-3413.](#)

[Lambert, Benjamin / Raj, Bhiksha / Singh, Rita: "Discriminatively trained dependency language modeling for conversational speech recognition", 3414-3418.](#)

[Si, Yujing / Zhang, Qingqing / Li, Ta / Pan, Jieli / Yan, Yonghong: "Prefix tree based n-best list re-scoring for recurrent neural network language model used in speech recognition system", 3419-3423.](#)

[Liu, X. / Gales, M. J. F. / Woodland, P. C.: "Cross-domain paraphrasing for improving language modelling using out-of-domain data", 3424-3428.](#)

[Masumura, Ryo / Masataki, Hirokazu / Oba, Takanobu / Yoshioka, Osamu / Takahashi, Satoshi: "Viterbi decoding for latent words language models using gibbs sampling", 3429-3433.](#)

Speech Enhancement and Coding

[Bäckström, Tom: "Computationally efficient objective function for algebraic codebook optimization in ACELP", 3434-3438.](#)

[Möller, Sebastian / Kelaidi, Emilia / Köster, Friedemann / Côté, Nicolas / Bauer, Patrick / Fingscheidt, Tim / Schlien, Thomas / Pulakka, Hannu / Alku, Paavo: "Speech quality prediction for artificial bandwidth extension algorithms", 3439-3443.](#)

[Xia, Bing-yin / Bao, Chang-chun: "Speech enhancement with weighted denoising auto-encoder", 3444-3448.](#)

[Cernak, Milos / Na, Xingyu / Garner, Philip N.: "Syllable-based pitch encoding for low bit rate speech coding with recognition/synthesis architecture", 3449-3452.](#)

[Duy, Nguyen Duc / Suzuki, Masayuki / Minematsu, Nobuaki / Hirose, Keikichi: "Artificial bandwidth extension based on regularized piecewise linear mapping with discriminative region weighting and long-span features", 3453-3457.](#)

[Lee, Bong-Ki / Lim, Chungsoo / Park, Jihwan / Chang, Joon-Hyuk: "Enhanced muting method in packet loss concealment of ITU-t g.722 employing optimized sigmoid function", 3458-3462.](#)

Articulatory and Acoustic Cues of Speech Prosody

[Nguyen, Thi-Lan / Michaud, Alexis / Tran, Do Dat / Mac, Dang-Khoa: "The interplay of intonation and complex lexical tones: how speaker attitudes affect the realization of glottalization on vietnamese sentence-final particles", 3522-3526.](#)

[Ní Chasaide, Ailbhe / Yanushevskaya, Irena / Kane, John / Gobl, Christer: "The voice prominence hypothesis: the interplay of F0 and voice source features in accentuation", 3527-3531.](#)

[Lee, Albert / Xu, Yi / Prom-on, Santitham: "Mora-based pre-low raising in Japanese pitch accent", 3532-3536.](#)

[Løevenbruck, Héléne / Jannet, Mohamed Ameer Ben / D'Imperio, Mariapaola / Spini, Mathilde / Champagne-Lavau, Maud: "Prosodic cues of sarcastic speech in French: slower, higher, wider", 3537-3541.](#)

[Ménard, Lucie / Leclerc, Annie / Tiede, Mark K. / Prémont, Amélie / Turgeon, Christine / Trudeau-Fisette, Pamela / Côté, Dominique: "Correlates of contrastive focus in congenitally blind adults and sighted adults", 3542-3546.](#)

[Georgeton, Laurianne / Audibert, Nicolas: "Is protrusion of French rounded vowels affected by prosodic positions?", 3547-3551.](#)

Intelligibility-Enhancing Speech Modifications (Special Session)

[Cooke, Martin / Mayo, Catherine / Valentini-Botinhao, Cassia: "Intelligibility-enhancing speech modifications: the hurricane challenge", 3552-3556.](#)

[Erro, D. / Zorilă, T. C. / Stylianou, Yannis / Navas, E. / Hernaez, I.: "Statistical synthesizer with embedded prosodic and spectral modifications to generate highly intelligible speech in noise", 3557-3561.](#)

[Suni, Antti / Karhila, Reima / Raitio, Tuomo / Kurimo, Mikko / Vainio, Martti / Alku, Paavo: "Lombard modified text-to-speech synthesis for improved intelligibility: submission for the hurricane challenge 2013", 3562-3566.](#)

[Valentini-Botinhao, Cassia / Yamagishi, Junichi / King, Simon / Stylianou, Yannis: "Combining perceptually-motivated spectral shaping with loudness and duration modification for intelligibility enhancement of HMM-based synthetic speech in noise", 3567-3571.](#)

[Godoy, Elizabeth / Stylianou, Yannis: "Increasing speech intelligibility via spectral shaping with frequency warping and dynamic range compression plus transient enhancement", 3572-3576.](#)

[Schepker, Henning / Rennies, Jan / Doclo, Simon: "Improving speech intelligibility in noise by SII-dependent preprocessing using frequency-dependent amplification and dynamic range compression", 3577-3581.](#)

[Taal, Cees H. / Jensen, Jesper: "SII-based speech preprocessing for intelligibility improvement in noise", 3582-3586.](#)

[Zhang, Mengqiu / Petkov, Petko N. / Kleijn, W. Bastiaan: "Rephrasing-based speech intelligibility enhancement", 3587-3591.](#)

[Aubanel, Vincent / Cooke, Martin: "Information-preserving temporal reallocation of speech in the presence of fluctuating maskers", 3592-3596.](#)

[Petkov, Petko N. / Kleijn, W. Bastiaan: "Preservation of speech spectral dynamics enhances intelligibility", 3597-3601.](#)

[Brouckxon, Henk / Verhelst, Werner: "An overview of the VUB entry for the 2013 hurricane challenge", 3602-3604.](#)

[Takou, Reiko / Seiyama, Nobumasa / Imai, Atsushi: "Improvement of speech intelligibility by reallocation of spectral energy", 3605-3607.](#)