Anthony J Maeder: Data linking and integration for health applications

Abstract

Health data is stored in a plethora of heterogeneous databases varying in format, terminology, modality and quality. It is also subject to strong regulatory and jurisdictional restrictions related to data privacy and security. Nevertheless, there are substantial benefits to be obtained in health research and operational activities by linking databases. We will identify some of the issues, and some approaches which might be taken in solving these. A case study will be presented on the use of our particular approach for research on cancer datasets.

About the speaker

Anthony Maeder is Research Director, e-Health Research Centre / CSIRO ICT Centre.

Anthony was born in South Africa and migrated to Australia in 1982. He holds a research Masters degree in Parallel Computer Architecture from University of Natal, and a PhD degree in Software Engineering from Monash University. After an initial two years working in the Australian telecommunications R&D sector with Scitec Corporation in Sydney, he has followed a mainstream career in academia. In the Department of Computer Science at Monash University he was co-founder of the Victorian Centre for Image Processing and Graphics, thereafter moving to Queensland University of Technology as Head of the Division of Computer Systems Engineering. Subsequently he occupied the positions of Professor and Head of the multidisciplinary School of Engineering at University of Ballarat, and of the School of Electrical and Electronic Systems Engineering at Queensland University of Technology. He now holds an Adjunct Professor appointment with the Faculty of Health Sciences at the University of Queensland. He was Founding President of the Australian Pattern Recognition Society, was a former representative for Australia on the Governing Board of the International Association for Pattern Recognition, and currently serves on the SPIE Medical Imaging International Technical Committee. He is currently chair of the Standards Australia subcommittee on Telehealth.

He has supervised more than 20 PhD students, authored over 200 research publications and has held responsibility for approximately $5M in funded research activities. His research expertise covers several areas including image processing and medical imaging, visualization and virtual reality, human factors and human visual system, systems engineering and numerical methods.
Development Site, Anthony J Maeder: Data linking and integration for health applications

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Last updated: 05 July 2007