SISY2022 Plenary talk

Speaker:

Professor Tom Gedeon
Director, Optus Centre for AI
Curtin University, Australia

Title:

Convergence of HCI & AI

Abstract:

I believe the future of HCI is AI, where AI tools on sensor data from people are essential to improve usefulness and behaviour of interfaces. Similarly, I believe the future of AI is HCI, where AI no longer just provides a classification or prediction and decides, rather the person is part of AI's inputs / outputs, uses HCI techniques to present info. This convergence I call responsive AI – and I describe some work my students and I have done in this area: sensor data from people and predicting subtle internal states such as stress, doubt, depression and so on.

Bio:

Tom Gedeon holds the Optus Chair in AI, and is Director of the Optus Centre for AI at Curtin University. Prior to this, he was Professor of Computer Science and former Deputy Dean of the College of Engineering and Computer Science at ANU. He gained his BSc (Hons) and PhD from the University of Western Australia.

Professor Gedeon's main research area is Responsive and Responsible AI. His focus is on the development of automated systems for information extraction, from eye gaze and physiological data, as well as textual and other data, and for the synthesis of the extracted information into humanly useful information resources, primarily using neural/deep networks and fuzzy logic methods.

Professor Gedeon has over 400 publications, and has run multiple international conferences. He is a former president of the Asia-Pacific Neural Network Assembly, and former President of the Computing Research and Education Association of Australasia. He has been General Chair for the International Conference on Neural Information Processing (ICONIP) three times. He has been nominated for VC's awards for postgraduate supervision at three Universities. He is recently a member of the Australian Research Council's College of Experts. He is an associate editor of the IEEE Transactions on Fuzzy Systems, and the INNS/Elsevier journal Neural Networks.