

# AMCH 2017 Chairs' Welcome

It is our great pleasure to welcome you to the 2017 ACM Workshop on Aging Well with Technology for Maintaining Good Mental and Cognitive Health – AMCH 2017, in conjunction with the 26th International World Wide Web Conference (WWW 2017).

This is a new event that is inspired by recent interest in technologies for aging well, as exemplified in the AGE-WELL Canadian National Centre of Excellence (<http://agewell-nce.ca>). That network, and others like it in Europe and elsewhere, seeks to help older people maintain their independence, health and quality of life through technologies and services that increase their safety and security, support their independent living, and enhance their social participation.

Technology for aging well is an extremely broad topic and this was reflected in the submissions that we received. While three of the eight accepted papers explicitly dealt with dementia, other papers considered the challenges of aging more broadly including metabolic syndrome, modifications of technology to suit the elderly, and design of smart homes.

The mission of this year's workshop will be to identify opportunities for international collaboration within the broad field of technologies for aging well.

Our short call for papers attracted submissions from North America, China, and Southeast Asia. The program committee, with the contribution of additional scholars carried out peer-review process and accepted the following papers.

- Jonathan Chan, Bethany Kon and Alex Lam. Evolution of Smart Homes for the Elderly
- Simon Fong, Shimin Hu, Wei Song, Kyungeun Cho, Raymond Wong and Sabah Mohammed. On Recognizing Abnormal Human Behaviours by Data Stream Mining with Misclassified Recalls
- Tiffany Tong, Jonathan Chan and Mark Chignell. Serious Games for Dementia
- Debajyoti Pal and Vajirasak Vanijja. A Video Quality Prediction Model for the Elderly
- Vajirasak Vanijja, Patricia Duangcham and Sachi Mizubuchi. Visual Attention Shifting Analysis: A Document Editing Scenario
- Andrea Wilkinson, Vishuda Charoenkitkarn, Judy O'Neill, Mark Chignell and Marc Kanik. Journeys to Engagement: Ambient Activity Technologies for People Living with Dementia
- Wutthipong Kongburan, Mark Chignell and Jonathan Chan. Distillation of Knowledge from the Research Literature on Alzheimer's Dementia
- Habeeba Kakudi, Chu Kiong Loo and Kitsuchart Pasupa. Risk Quantification of Metabolic Syndrome with Quantum Particle Swarm Optimisation

In addition, we invited a team from the University of Macau to present a paper on their innovative work on the use of sensor technology with traditional Chinese medicine.

Putting together AMCH 2017 was a team effort. We thank the authors for providing the content of the program. We are grateful to the program committee and the reviewers for their efforts in reviewing papers and providing valuable feedback for authors. Each accepted paper as well as the invited paper had at least two reviews.

We are grateful to King Mongkut's University of Technology Thonburi (KMUTT) for assistance in the workshop planning, to the Knowledge Media Design Institute (KMDI) at the University of Toronto for developing and hosting the conference website, and to the AGE-WELL NCE for inspiring

the workshop and for funding some of the research being reported at the workshop. Finally, we thank the hosting organization and ACM SIGs. We hope that you will find this program interesting and thought-provoking. We also hope that the workshop will be a forum for sharing ideas with other researchers and practitioners from a wide variety of backgrounds and geographical locations, and for advancing our understanding of opportunities and challenges relating to the development of technologies for aging well.

WWW 2017 AMCH Workshop	Reviewed	Accepted	
Short Technical Papers	12	8	66%
Invited Technical Paper	1	1	100%

**Mark Chignell**

*Venue Chair*

*KMDI, University of*

*Toronto*

**Jonathan H. Chan**

*Venue Chair*

*School of Information*

*Technology, KMUTT*



# AMCH 2017 Organization

**Workshop Chairs:** Mark Chignell (*KMDI, University of Toronto, Canada*)  
Jonathan H. Chan (*School of Information Technology, King Mongkut's University of Technology Thonburi, Thailand*)

**Advisory Committee:** Thomas Hadjistavropoulos (*Department of Psychology, University of Regina, Canada*)  
Lili Liu (*Faculty of Rehabilitation Medicine, University of Alberta, Canada*)  
Eleni Stroulia (*Department of Computer Science, University of Alberta, Canada*)

**Program Committee:** Wutthipong Kongburan (*School of Information Technology, King Mongkut's University of Technology Thonburi, Thailand*)  
Sachi Mizobuchi (*Toronto Rehabilitation Institute, Canada*)  
Tiffany Tong (*Department of Mechanical and Industrial Engineering, University of Toronto, Canada*)  
Andrea Wilkinson (*Department of Mechanical and Industrial Engineering, University of Toronto, Canada*)