

Dr. Alex Mihailidis

Associate Professor at Department of Occupational Science and Occupational Therapy, University of Toronto

Toronto, ON, CA

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Biography

Alex Mihailidis, Ph.D., P.Eng., is the Barbara G. Stymiest Research Chair in Rehabilitation Technology at the University of Toronto (U of T) and Toronto Rehabilitation Institute. He is also the Graduate Coordinator for the Clinical Engineering Program. He is an Associate Professor in the Department of Occupational Science and Occupational Therapy (U of T) and in the Institute of Biomaterials and Biomedical Engineering (U of T), with a cross appointment in the Department of Computer Science (U of T).

He has been conducting research in the field of pervasive computing and intelligent systems in health for the past 15 years, having published over 150 journal papers, conference papers, and abstracts in this field. He has specifically focused on the development of intelligent home systems for elder care and wellness, technology for children with autism, and adaptive tools for nurses and clinical applications.

Dr Mihailidis currently holds several major research grants from internationally recognized funding agencies to support this work (including Canadian and American Alzheimer Associations, NSERC, and CIHR). He is also a CIHR New Investigator. His research has been completed through collaborations with other researchers in this field from Canada, the United Kingdom, and the United States, and with various industrial partners.

Dr Mihailidis has also co-edited two books: one from CRC Press entitled “Pervasive Computing in Healthcare”, and the other from IOS Press entitled “Technology and Aging”, which resulted in him being the conference chair for the 2nd International Conference on Technology and Aging. Dr Mihailidis is also very active in the rehabilitation engineering profession, currently as the President for RESNA (Rehabilitation Engineering and Assistive Technology Society of North America).

Industry Expertise

Health and Wellness, Health Care - Facilities, Health Care - Services, Program Development, Education/Learning, Research

Areas of Expertise

Technology and Ageing, Rehabilitation Engineering, Re-enablement, Pervasive Computing, Intelligent Systems

Affiliations

Rehabilitation Engineering and Assistive Technology Society of North America (RESNA) : Member,
Association for Computing Machinery (ACM) : Member, University of Alberta : Adjunct Associate Professor
Faculty of Rehabilitation Sciences, Glenrose Rehabilitation Hospital : Affiliate Research Scientist, Sunnybrook
Health Sciences Centre : Associate Scientist Clinical Integrative Biology Unit (CIB), Simon Fraser University
Gerontology Program : Adjunct Professor

Event Appearances

Discriminating Older Adults with Mild Cognitive Impairment Using Machine Learning Algorithms
ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2013)

Collaboratively Controlled Intelligent Robotic Wheelchairs: Capabilities and User Interfaces
(Workshop)
RESNA 2013 Annual Conference

Developing advanced assistive technologies for older adults with dementia: Lessons learned
RESNA 2013 Annual Conference

Intelligent wheelchairs for cognitively impaired older adults in Long-term care: A review
RESNA 2013 Annual Conference

Investigation of EMG fatigue patterns while using an upper limb rehabilitation robotic device
RESNA 2013 Annual Conference

Education

Strathclyde University
Ph.D. Bioengineering

University of Toronto
M.A.Sc. Biomedical Engineering

University of Toronto
B.A.Sc. Mechanical Engineering

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