

Technology & Dementia — AAIC 2020

AGENDA

TD-01 > Technology and Dementia		
Available on-demand: Monday, July 27	Welcome and opening remarks Keynote presentation: Technology and Dementia: Technology, Services and Data Analytics	Julie Robillard, Ph.D. , Vice Chair, ISTAART Technology and Dementia Professional Interest Area (PIA); The University of British Columbia, Canada Christopher Nugent, D.Phil. , Ulster University, United Kingdom
TD-02 > Mapping Dementia: Technological Methods to Identify and Interpret Cognitive Function		
Available on-demand: Monday, July 27	Towards a Novel Set of GPS-Derived Metrics to Identify the Differences Between Mobility Patterns of Cognitively Intact Older Adults and Older Adults with Dementia Sayeh Bayat , Bing Ye, Elaine Stasiulis, Mark Rapoport, Gary Naglie, Alex Mihailidis	
Available on-demand: Monday, July 27	Rehabilitation of Persons Living with Dementia: Using Technology to Improve Participation Carrie Chiusano , Steven Zarit, Christopher Krause, Lynne Sewell, Aime Harrison, Yin Liu	
Available on-demand: Monday, July 27	Mapping Behavior Symptoms in Dementia Using Passive Radio Sensing Ipsit Vahia , Rose May, Zach Kabelac, Praise Owoyemi, Kreshnik Hoti, Usman Munir, Dina Katabi	
Available on-demand: Monday, July 27	Augmenting Cognitive Assessment with Instruction-Less Eye-Tracking Tests: A Machine Learning Approach for Detecting Abnormal Oculomotor Biomarkers Kyriaki Mengoudi , Daniele Ravi, Keir Yong, Silvia Primativo, Ivanna Pavisic, Emilie Brotherhood, Kirsty Lu, Jonathan Schott, Sebastian Crutch, Daniel Alexander	

TD-03 > Lightning Round Poster Presentations

3-minute podium presentation of poster abstract; 3 presentation slides

Moderator: Allison Lindauer

Available on-demand:
Monday, July 27

Each presenter to pre-record 3 minute video. Recordings to be included in 4 separate video sections for ease of viewing.

Lightning Round Presentations — Set 1

A Predictive Machine Learning Model to Predict Alzheimer's Disease Dementia in People with Mild Cognitive Impairment: A Validation Study in the Biobank Alzheimer Center Limburg Cohort

Nadine Rouleaux, Massimiliano Grassi, Inez Ramakers, Frans Verhey, Michel Dumontier

Automatic Assessment with EEG Based Brain-Computer Interface Shows Difference Between Healthy Population, Mild Cognitive Impairment and Moderate Cognitive Decline Patients

Neta Maimon, Lior Molcho, Tomer Loterrman, Narkiss Pressburger, Ady Sasson, Nathan Intrator

Understanding Resistance, Resilience and Repair: An Analysis of Electronic Medical Records to Identify "Successful Aging" Free of Alzheimer's Disease and Related Dementias

Amber Miller, David Marra, Stephen Anton, Demetrius Maraganore

Lightning Round Presentations — Set 2

Causal Pathway to Analyze Racial Disparities in ADRD

Yejin Kim, Xiaoqian Jiang

Computer Device and Phone Utilization Trends Among a Cohort of Older Adults

Nicole Bouranis, Sarah Gothard, Nora Mattek, Jeffrey Kaye

Feasibility of Mobile App-Based Assessment of Memory Functions — Insights from a Citizen Science Study

David Berron, Ornella Bilette, Gabriel Ziegler, Jeremie Güsten, Xenia Grande, Michael Heneka, Anja Schneider, Stefan Teipel, Frank Jessen, Michael Wagner, Emrah Düzel

Lightning Round Presentations — Set 3

iSupport-Portugal: Adapting an Evidence-Based Online Intervention for Dementia Caregivers to a Different Culture

Soraia Teles, Maria do Rosário Zincke, Milaydis Sosa-Napolskij, Ana Ferreira, Constança Paúl

"No, I don't know where that is. All I know is my room." Topographical Disorientation and User-Centred Requirements on In-Hospital Navigation Aids of People with Dementia and Their Caregivers

Antonia Kowe, Doreen Goerss, Stefan Teipel

Stakeholder View on Assistive Mobile Applications for People with Mild Cognitive Impairment Due to Alzheimer's Disease

Jessica Janson, Stefanie Köhler, Roberta Lizio, Stefan Teipel, Claudio Babiloni, Doreen Goerss

Lightning Round Presentations — Set 4

Testing the Conceptual Design of *icompass*: A New Clinical Decision-Support Tool to Guide Clinicians Through Alzheimer's Disease Markers' Evolution

Maura Bellio, Neil Oxtoby, Annemie Ribbens, Daniel Alexander, Ann Blandford

	<p>The State of the Science on Synchronous Video-Conferencing Interventions for Care Partners of Persons with Dementia Robin Tarter, Leslie Tran, Allison Lindauer</p> <p>Automatic Early Detection of Cognitive Decline Neta Maimon, Lior Molcho, Tomer Loterrman, Narkiss Pressburger, Ady Sasson, Nathan Intrator</p>	
<p>TD-04 > Funding Opportunities in Technology</p>		
Available on-demand: Monday, July 27	NIH's investment in various technological fields (sensors, EHR, robotics, etc.) and their overlap and impact in AD/ADRD research and practice	Yuan Luo, Ph.D. , National Institute on Aging at NIH, United States
<p>TD-05 > Cross-Sector Collaboration Session</p> <p>Developing assistive technologies, which are both useful and usable, often presents complex challenges that require collaboration from multiple disciplines and sectors to address. This session showcases the power of cross-sector collaboration in understanding these challenges and how it may lead to innovative, impactful and transformative solutions. Soo Hun will describe her experience working with user groups to develop and curate an apps library for dementia. Dr. Paggetti will present his experience from over 20 years of industry and academia collaboration. Dr. Zoualfaghari will discuss scalability of industrial solutions at British Telecom.</p>		
Available on-demand: Monday, July 27	Building an apps library for people living with dementia and their careers	Soo Hun , Centre for Connected Health & Social Care, Public Health Agency, Belfast, United Kingdom
Available on-demand: Monday, July 27	Industry/academic collaborations in developing novel reminding solutions: The REMIND Project	Cristiano Paggetti, Ph.D. , MEDEA, Italy
Available on-demand: Monday, July 27	Developing scalable IoT platforms for large scale healthcare deployments	Mohammad Hossein Zoualfaghari, Ph.D. , MEng, MIET, IoT Architect & Technical Lead, British Telecom

TD-06 > Technology and Dementia: Technology, Services and Data Analytics

Moderator: Arlene Astell, Ph.D., University of Toronto
July 31 at 8:30 a.m. Central Daylight Time (North America)

** Recommend preview of the prerecorded videos by each speaker.

Live session:
Friday, July 31 —
8:30 a.m. CDT

Short prerecorded overview, then a live panel discussion

Communication Technology, Dementia and COVID-19
Henriëtte van der Roest, Ph.D., Trimbos Institute, The Netherlands

Subtle Cognitive Differences Detected Using Digital Tools
Dorene Rentz, Ph.D., Harvard University, United States

An Open Source Platform for Mobile Monitoring of Cognitive Change (M2C2)
Marty Sliwinski, Ph.D., The Penn State University, United States

Technology Application in Trials
Hiroko Dodge, Ph.D., OHSU, United States

Machine Learning Approaches for Precision Mining of Longitudinal Data
Roger Dixon, Ph.D., University of Alberta, Canada