CONFERENCE PROGRAM

INTERNATIONAL SOCIETY FOR GERONTECHNOLOGY

15TH WORLD CONFERENCE

MARCH 26 - 29, 2026 | VANCOUVER CANADA



ISG2026

INTERNATIONAL SCIENTIFIC PROGRAM ADVISORY COMMITTEE

Chair

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Ardis Hanson	Assistant Director, Research and Education, USF Health Libraries, University of South Florida, Tampa, FL, USA
Chapal Khasnabis	Expert, Assistive Care and Technology, India, Former Head, Access to Assistive Technology and Medical Devices Unit, World Health organization (WHO) and currently, Senior Technical Adviser for Assistive Care and Technology, Asia Development Bank (ADB)
Pei-Lee Teh	Professor and Head, Department of Management. Director, Gerontechnology Laboratory, Monash University, Malaysia
Daniel (Hongdao) Meng	Professor, School of Aging Studies, University of South Florida, Tampa, FL, USA
Ben Mortenson	Professor and Department Head, Department of Occupational Science and Occupational Therapy | Faculty of Medicine University of British Columbia, Canada
Haopu (Lily) Ren	PhD Student, Interdisciplinary Studies Innovation in Dementia and Aging (IDEA) Lab, University of British Columbia
Woo Joung Shim	CTO, Wheel Line Co., Ltd., Chief Researcher, Gerontech R&D Institute of KAPASS, President, ISG Korean Chapter
Yongping Zheng	Henry G. Leong, Professor in Biomedical Engineering; Chair Professor, Department of Biomedical Engineering; Director, Research Institute of Smart Ageing; Director, Jockey Club Smart Ageing Hub, The Hong Kong Polytechnic University, Hong Kong SAR, China

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WORDS OF WELCOME

INTERNATIONAL SOCIETY FOR GERONTECHNOLOGY
15th WORLD CONFERENCE | Vancouver, Canada | March 26-29, 2026

Dear Colleagues,

As co-chairs, it is our pleasure and privilege to welcome you to Vancouver to participate in the International Society for Gerontechnology's 15th World Conference. Over the next four days over 300 participants from 24 countries around the world will share their knowledge and experience in 15 thematic symposia, 5 expert round table discussions, 41 oral paper sessions in which 184 papers will be presented, as well as 5 poster sessions in which 52 posters will be featured. Together, topics covered in the scientific program include cutting-edge research and theorizing with respect to: aging and disability, application fields and innovative technology for an aging society (e.g., AI, robotics, sensors, augmentation), healthy inclusive environments and architecture, dementia and technology, ethics and DEI (Diversity, Equity, and Inclusion), health and self-esteem, housing and daily living, governance, social policy, communication, transportation and personal mobility, work, leisure and social participation, and many more. The program also features exhibits, site visits, and ISG's 10th Master Class designed to build capacity among graduate students, post-doctoral fellows, and early career professionals.

The theme of the conference is Empowering Aging with Gerontechnology. As ISG President Helianthe Kort notes in her introduction to the conference issue of the society's official journal Gerontechnology, empowering is a concept that resonates across diverse communities of older adults. But to advance from rhetoric to cost effective solutions to the issues faced by these communities, evidence-based pathways are needed for technological solutions to meet the needs of an aging population.

Vancouver, known as the "Jewel of the Pacific", is the perfect venue to learn about new developments in technology and aging. We trust that you will enjoy your visit and remember it for many years to come.

Sincerely,



Gloria M. Gutman, CM, OBC, PhD, LLD (Hon.), FCAHS, FGSA
Vice-President, International Society for Gerontechnology
Professor/Director Emerita, Dept. of Gerontology/Gerontology Research Centre, Simon Fraser University
Co-Chair ISG 2026



Shannon Freeman, PhD
Professor, School of Nursing, University of Northern British Columbia
Academic Director, Centre for Technology Adoption for Aging in the North
Canadian Research Chair in Technology Adoption for Aging
Co-Chair ISG 2026

WORDS OF WELCOME

OFFICE OF THE
SENIORS ADVOCATE
BRITISH COLUMBIA

March 24, 2026

380347

Via email: gutman@sfu.ca

Hello,

As the BC Seniors Advocate, I'm excited to welcome delegates from around the world to Vancouver and the International Society for Gerontechnology's 15th World Conference.

The role of my office is to monitor and analyze seniors' services and issues in B.C. and make recommendations to government and service providers to address systemic issues. In this vein, our work directly aligns with the conference theme of empowering ageing and ensuring society is prioritizing the needs of older adults which includes using technology to support healthy ageing.

One of my passions is challenging ageism and directly addressing discrimination and stereotypes facing older people. One of the consistent, and mistaken, falsehoods about seniors is that they are unable or unwilling to embrace technology, when in fact people of all ages have varying comfort levels with new tools and systems. The challenges of adopting technology in a manner that enhances ageing is extremely inspiring and one I'm looking forward to learning about at this year's conference.

Thank you to all the organizers, researchers, speakers and others who have worked tirelessly to create this important event. I know our collective focus and shared learning will result in adoption of new, practical solutions that use technology to improve the health and well-being of seniors throughout the world.

Dan Levitt



Seniors Advocate
Province of BC

Office of the Seniors Advocate
Province of British Columbia

1-877-952-3181
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PO Box 9651 STN PROV GOVT
Victoria BC V8W 9P4

SITE VISITS

Site visits offer the opportunity to learn about innovative technology applications and cutting-edge research and development projects in the greater Vancouver area.

SITE VISIT #1: UNIVERSITY OF BRITISH COLUMBIA & THE CENTRE FOR AGING SMART

Thursday, March 26th, 2026 | Departs SFU's Harbour Centre at 8:30AM

Stop 1: IDEA Lab (Innovation in Dementia Care and Aging) at UBC

This stop will showcase 5 IDEA Lab projects:
PROJECT 1 - WhatMatters app is created for individuals living with dementia in hospitals and long-term care to enable family members to share personalized content - which staff can utilize to connect with patients and residents.


3D Projector

PROJECT 2 - 3D Projector, co-developed with residents/patients living with dementia in hospitals and long-term care facilities, their family, and staff, includes activities like virtual Tai Chi and cultural scenes.

PROJECT 3 - The AI Chatbot for People Living With Dementia in Long Term Care Project is focused on developing a conversational AI chatbot to support older adults experiencing memory loss within long-term care settings in collaboration with residents, their families, staff, and CloudMind Software Inc.(industry partner).


Indigenous VR Storytelling

PROJECT 4 - The Indigenous VR Storytelling initiative, conducted in partnership with the Museum of Anthropology, uses VR technology to preserve and share Indigenous stories in an immersive format that enhances engagement for older adults, including those with dementia.

PROJECT 5 - The Aether Robot project contributed to the development and evaluation of Aether, which features autonomous navigation, voice recognition, and entertainment capabilities. It ensures safety through environmental monitoring and engages socially with caregivers and residents, telling jokes, stories, and welcoming visitors using face and voice recognition.

Stop 2: The Centre for Aging SMART

The Centre for Aging SMART is a 50 faculty, 150 trainee research centre under the Vancouver Coastal Health Research Institute. The Centre seeks to positively impact the health and quality of life of individuals living with the effects of aging or disability by developing novel Solutions for Mobility, Activity, Rehabilitation and Technology (SMART). Facilities include a Medical Imaging Suite, Clinical Assessment Suite, Active Health Suite (Exercise), Surgical Research Suite and Fall Prevention Clinic and Registry.

SITE VISITS CONT'D

SITE VISIT #2: BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

Thursday, March 26th, 2026 | Departs SFU's Harbour Centre at 1:30PM

Stop 1: Centre for Applied Research and Innovation (CARI)

Join Team Leaders, Drs. Yvette Jones and Jaimie Borisoff, for an engaging tour of the BCIT's CARI, home to the MAKE+ Applied Research Group. With a mission of developing creative solutions for better lives, MAKE+ focuses on improving the daily living, work, and recreational experiences of older adults and people with disabilities through applied research and innovative design.

This stop will have four hands-on, technology-driven projects aimed at enhancing accessibility and mobility:

1. Dr. Tong Louie Living Laboratory: A cutting-edge space for 3D Motion Capture, physiological monitoring and data collection supporting human-device interaction research.
2. The BEAST (BCIT Extending Articulating wheelchair for Serious Terrains): Winner of the 2024 Cybathlon Gold Medal, this high-performance device is engineered to navigate and overcome complex real-world terrain.
3. Adapted exercise machines – Featuring the aROW and aSKI for stable seated exercise, and the AAPLEwalk, an upright elliptical system offering fully supported walking exercise.
4. Robotic dogs – early-stage research into robotic assistance animals designed to support mobility and daily living activities for older adults.

Stop 2: Human in Motion Robotics

Driven to push past the limits of traditional, non–self-balancing exoskeletons, longtime collaborators Dr. Ed Park and Dr. Siamak Arzanpour set out in 2014 to reinvent what mobility technology could be. Their partnership sparked the creation of a next-generation exoskeleton XoMotion.

During this stop, visitors will step inside the lab where it all began and witness their groundbreaking robot, XoMotion, in action!



XoMotion

SITE VISITS CONT'D

SITE VISIT #3: HEALTHY INCLUSIVE ENVIRONMENTS & ARCHITECTURE

Sunday, March 29th, 2026 | Departs SFU's Harbour Centre at 8:30AM

Stop 1: Seton Villa



What goes on in a retirement centre? Come find out. Seton Villa invites you onsite for a behind-the-scenes look at how we're redefining senior living in our 19-storey, non-profit community, home to 225 vibrant residents. Fresh off our 50th anniversary, we're proud to share how we've reduced loneliness to just 5% through targeted strategies, resident-led Java Music groups, and a strong culture of connection. We also broke new ground by hiring a full-time Kinesiologist, boosting fitness participation and energy across the building, from aquafit to "Wimbledon Workouts." Over 50% of residents now meet recommended movement goals, and they're loving it. You'll hear real stories, feel real connection, and see real movement in action. Plus, tour our evolving campus, including a $37M revitalization and a brand-new 48-suite accessible building with a community "main street." Come see what's possible when purpose, wellness, and innovation come together.

Stop 2: Dania Society

Dania Society invites you to discover a unique senior living community rooted in 80 years of Danish heritage and guided by values of Excellence, Compassion, Diversity, Respect, and Integrity. Our nonprofit "Campus of Care" spans 7 landscaped acres and offers 214 Independent Living suites, 40 Assisted Living suites, and 102 Residential Care beds. One of our buildings, Dania Home, features six neighbourhoods with 17 beds each and advanced point-of-care technology in every room, ensuring high-quality, complex care and helping us achieve zero COVID-19 fatalities during the pandemic. We are committed to quality assurance and innovation, recently developing a concept for a mobile app to enhance caregiver communication and care planning through language translation. This tool aims to reduce aggressive behaviours, support residents and families in understanding care plans, and could be potentially used in hospitals and home care settings. Currently at the proof-of-concept stage, the app's further design and eventual deployment have the potential for more collaboration and evaluation beyond Dania.



SFU HARBOUR CENTRE FLOOR PLAN



PROGRAM

DAILY SCHEDULE



ISG2026

THURSDAY, MARCH 26TH, 2026

7:00 - 9:00 PM | Room 1400, Segal Centre

OPENING CEREMONY

WELCOME & INTRODUCTIONS



Helianthe Kort, President, International Society for Gerontechnology



Gloria M. Gutman, Co-Chair ISG2026



Shannon Freeman, Co-Chair ISG2026

LAND ACKNOWLEDGEMENT

Elder Unkie Pixie Wells

GREETINGS

Dan Levitt, Seniors Advocate, Province of British Columbia
Mark Barnes, Interim Associate Vice-President, Strategy and Outreach
Bridgette Murphy, CEO, AGEWELL
Patricia Versteegh, Senior/Science Strategist, CIHR Institute of Aging (on behalf of Director Dr. Jane Rylett)

KEYNOTE ADDRESS LUCIEN ENGELEN



BRIDGING GENERATIONS:
HOW TECHNOLOGY IS TRANSFORMING AGING & CARE

Lucien Engelen's bio:

9:00 - 11:00 PM | Wosk Centre - 580 Hastings Street

WELCOME RECEPTION

After the Opening Ceremony, please make your way to the Wosk Centre for Dialogue, a spectacular heritage building designed specifically for meetings and conferences that facilitates dialogue and enhances interaction. Located at 580 Hastings Street - directly across the street from the conference venue at SFU's Harbour Centre campus



FRIDAY, MARCH 27TH, 2026

8:30AM - 10:00AM | Room 1400, Segal Centre

KEYNOTE ADDRESS PROF. LIANG-KUNG CHEN, MD, PHD



PERSON-CENTERED INTEGRATION OF ICOPE FRAMEWORK AND SMART TECHNOLOGIES FOR HEALTHY LONGEVITY

Prof. Liang-Kung Chen's bio:

10:00AM - 10:30AM | REFRESHMENT BREAK

10:30AM - 12:00PM | PARALLEL SESSIONS

SPONSORED SYMPOSIUM | Room 1400, Segal Centre

From Ethics to Governance: Making AI Accountable in Aging and Care

Convenor: M. Chrostowski

Accountability for AI in AgeTech: A Sociotechnical Ecosystem Perspective
A. Mihailidis

Making it Real: Inclusion of Age-Related Values in AI Technologies
J.Boger

Oversight of AI Across Care Contexts: A focus on homecare
S. McKay

SYMPOSIUM | Room 1600, Canfor Policy Room

Exploring the ethical aspects of technology for older adults and people living with dementia

Convenor: A. Flynn

Ethical considerations of using robots for older adults with dementia
L. Hung, P. Y Zhao, L.H. Ren

What Informs the Ethical Development and Use of Virtual Reality for Older Adults with Dementia in Hospitals? A Critical Evaluation of Ethical Frameworks
L.H. Ren, L. Hung, W. B. Mortenson, J. Henderson

What Constitutes Ethical Use of Innovative Technologies for Dementia Care?
A. Flynn, D. Anantharaman, J. Liddle, T. Vandemeulebroucke, W.Q. Koh

Ethical and Responsible Innovation in AgeTech: Insights from Reviews and Stakeholder Consultation
M.L. Fang, E. Stone, R. White, O. Bryanton, J. Mann, M. Moulton, C. Chu, J. Boger, J. Sixsmith, H. Loret, A. Sixsmith

10:30AM - 12:00PM | PARALLEL SESSIONS CONT'D

▷ ORAL PRESENTATION SESSION | Room 1315, Scotia Bank Lecture Hall

Mobility & Transport

Chaired by: J. Garcia-Alonso

Walking sticks as an Assistive Technology Resource for Mobility in Older Adults: Effects on Locomotor Performance and Perceived Effort

G.C. Agostinho, G.M.P. Thomazelli, K B. Agostinho, E.O.R.C. Goulart, R.T. Monteiro, M.S. Julio, R.C.S. Kuroishi, F.O. Medola, C.S.S.Castro

Tactile Sensor Integration in Ergonomic Wheelchair Pushrims

N. Zaghi, J. Borisoff, D.W. John

Use of Transportation Technologies in Later Life

F. Hatami, A. Siren, S. O'Hern

Mobility Device Use among Community-dwelling Older Adults: A Mixed-methods Comparison of the U.S. and China

X. Liu, S.E. Baumann, A.L. Rosso, E.M. Venditti, Y. Yao, S.M. Albert

▷ ORAL PRESENTATION SESSION | Room 1425, Repap Policy Room

Application Fields & Innovative Technologies for an Aging Society

Chaired by: H. Kort

Multifactorial Determinants of Access and Adaptation in Aging Technologies: Lived Experiences of the Elderly in Cape Breton

A. Fasanmi, L. Manthena, S. Zheng, C. Deveaux

Predicting Mobility Assistive Device Needs in Elders Using EHR and Healthcare Utilization Data

C.T. Wu, C.Y. Chiang, J.Y. Wang, Sanford P.C. Hsu, F.T. Wang, Y.C. Chen

Effective Communication of Driving Feedback: Principles and Strategies for Empowering Older Adults

L. McCauley, K. Van Benthem, B. Wallace, C. Herdman, J. Keillor, F. Knoefel, S. Marshall

Basic Values of Gerontechnology

H. Kort

Use of digital imagery technology for management of post-operative delirium: A feasibility study

E. Tam, K.L. Chu, M.N. Wong, S. Chien, J. Lam, Y.P. Zheng

▷ ORAL PRESENTATION SESSION | Room 1510, Tree Island Conference Room

Governance, Social Policy, & Communication: Global

Chaired by: S. Otalvaro Zapata

Brazilian Franchise Network of LTCFs: Experience Report on Standardized Practices that Ensure Healthy and Dignified Aging

E. de Faria Ferreira

Adoption and Needs of Smart Care Technologies in Long-Term Care Facilities in Taiwan: A Nationwide Survey

P.Y. Chu, Y.L. Hsu

Digital participation in old age: Municipal governance concept in Frankfurt, Germany

R. Werny

Wireless Network Proficiency Questionnaire (WNPQ) for Brazilian Older Adults: Translation, Back-Translation, and Synthesis

S.K. Mateus, G.P. Cruz, W.R. Boot, P.C.Castro

Going global with user-friendly gerontech: what's missing in business support?

T. Palo, A. Kaipainen, M. Elomaa-Krapu

10:30AM - 12:00PM | PARALLEL SESSIONS CONT'D

ORAL PRESENTATION SESSION | Room 1520, Barrick Gold Conference Room

Dementia & Technology

Chaired by: S.B. Schmidt

Using Virtual Reality and Artificial Intelligence (VRMemory©) to Promote Multi-Sensory Reminiscence Experiences and Social Connectedness for People with Dementia and Caregivers
W. Sun, A. Quevedo, E. Sara, P. Sarah, K. Fatima, A. Sulaiman, D. Warner, R. Inguino

Preliminary insights from an AI-assisted scoping review into personalised communication of Socially Assistive Technologies
B.M. Hofstede, S. Ipakchian Askari, R.H. Cuijpers, J.C.F. Ket, W.A. IJsselsteijn, H.H. Nap

Examining technology adoption and ongoing use by older Australians with mild cognitive impairment
S.B. Schmidt, B. John, R. Subramanian, S. Isbel, N.M. D'Cunha

Immersive virtual reality gardening training in older adults with and without early dementia
C.Y. Wu, I.C. Chuang, K.H. Su

Egocentoric Snapshot-based Diary Generation Service for Elderly Memory Support
H. Onishi & TBA

ORAL PRESENTATION SESSION | Room 1530, Canadian Pacific Lecture Room

Aging & Disability: Barriers & Vulnerable Populations

Chaired by: S. Brink

Framework to protect the human rights of vulnerable populations when developing advanced technologies
S. Brink

Who is left behind? Disparities in engagement with conversational AI check-in call services among older adults in rural South Korea
M. Choi, E.C. Khor, S. Park, S. Jang

User perceptions and design requirements for conversational AI agents for food ordering: A qualitative co-design study
A.J. Kim, J. Park, W. Hong, H.W. Ka, I.C. Moon, M. Choi

Staff Experiences and Resident Safety Outcomes with Non-Wearable Sleep Monitoring Technology in Long-Term Care
L.G. Franciosi, P. Magtibay

AI Analytics and Forecasting of Length of Stay of Geriatric Patients to Support Digital Care Planning
P. Jackson, A. Thippeswamy, S. Freeman

POSTER SESSION | CIHR Student Poster Contest | Teck Gallery - HC1305

Applicability of Sensor Technologies to Enhance Accuracy of Digital Comprehensive Geriatric Assessment System
A. Panahi, S. Freeman, S. Jia, P. Jackson, W. Haque, R. Richard, S. Ebihara, H. Sato, S. Amirkhani Ardeh, H. Fournier

Co Designing an AgeTech Implementation Framework for a Rural Health System
E. Lotfalinezhad, S. Freeman, J. Bickford, C. Genge.

AgeTech Discussions: Exploring Perspectives on Tech – Bridging the AgeTech gap for older adults in northern and rural communities
E. Rossnagel, R. McAloney, S. Freeman

Homecare Upgraded: Understanding implementation of Active Assisted Living in older adult care provision
G. Bin Noon, I. Modebelu, R. Al-Saghier, F. Manning, S. Akhtarian, J. Teague, P.P. Morita

Anticipating and Mitigating Ethical Challenges in the Design and Deployment of Real-Time Location Systems in Dementia Care
M. Liougas, A. Grigorovich, A. Bianchi, L. Haslam-Larmer, L. Shum, A. Iaboni, J. McMurray

The value of involving Community Health Nurses in development of Artificial Intelligence: Interpretive descriptive study
M. Henderson Betkus, S. Freeman, L. Currie, D. Banner, P. Jackson

FRIDAY, MARCH 27TH, 2026

10:30AM - 12:00PM | PARALLEL SESSIONS CONT'D

POSTER SESSION CONT'D| CIHR Student Poster Contest | Teck Gallery - HC1305

Adoption of digital technology in community settings for people living with dementia: Lessons learnt from the field
E. Dove, A. Astell

Toward an Ethically Grounded Framework for Evaluating Technology-Assisted Transfers in Older Adults
N. Todam Nguepnang, L. Manirambona, S. Karunananthan, K. Toupin-April, M. Bilodeau, J. Jutai

The Role of Technology-Enabled Communication Interventions to Reduce Social Isolation in Hospitalized Older Adults
S. Amirkhani-Ardeh, A. Agboji, T. Fyfe, T. Klassen-Ross, S. Freeman

Enhancing Cognitive Health in Dementia: Integrating Co-Design, Exergaming, Digital Twins, and Biomarkers
S.C. Pistritto, P. Hung, A. Hogue, A. Burhan, M. Chiu, W. Sun

Exploring the role of Prosthetic Technology in the Participation of Older Adults with Limb Loss
B.M. Pousett, N. Parag, A. Battalova, C. MacKay, W.C. Miller

The Application of AI-enabled Automatic Swallowing Movement Recognition in Ultrasound as Measurement for Mendelsohn Maneuver Training
P.T.C. Shek, W.Y.S. Lam, E. Kwong, E.T.C. Wong, Y.P. Zheng

Feasibility of Smart Rings in Cross-Cultural Music Interventions for Older Adults
Y. Zhao, Y.S. Hsu, K.C.K. Tan, R. Son, L. Hung

12:00PM - 1:00PM | LUNCH

12:00PM - 1:00PM | LUNCH HOUR SESSION

ROUND TABLE | Room: 1600, Canfor Policy Room

Shaping the Future of the Gerontechnology Journal: Current Status, Challenges, and New Opportunities
Convenor: Y-L. Hsu, Editor-in-Chief
Participants: Associate editors, reviewers, authors and readers of Gerontechnology

1:00PM - 2:30PM | PARALLEL SESSIONS

ROUND TABLE | Room 1400 Segal Centre

From Idea to Impact: Governance and Policy for enabling AgeTech Scale and Spread
Convenor: S. Freeman

Expert panelists: Courtney Genge (National Research Council of Canada, Aging in Place, Canada), Heather McNeil (AGE-WELL, Canada), Simon Backer (National Research Council of Canada Industrial Research Assistance Program [IRAP]),Canada), Rich McAloney (Centre for Technology Adoption for Aging in the North [CTAAN], Canada), Tracee Dunn (Northern Health Authority), Jennifer Gibson (Providence Health Care, Canada), Donna Flood (Prince George Hospice Palliative Care Society, Canada)

1:00PM - 2:30PM | PARALLEL SESSIONS CONT'D

SYMPOSIUM | Room 1600, Canfor Policy Room

From the need to responsible adoption of Social Robotics in long-term care

Convenor: B.M. Hofstede

Uncovering Latent Needs: An Ethnographic Exploration of Communicative Breakdowns in Human-Robot Interaction
B.M. Hofstede, S. Ipakchian Askari, E. Ágotai, R.H. Cuijpers, W.A. IJsselsteijn, H.H. Nap

Beyond the Clinical File: Designing the "Emotional Passport" for Dignity-Conserving Dementia Care
E.J. Oosterglorenwoud, A. Tummers, H.H. Nap, W.A. IJsselsteijn

Context-aware care: making social robots smarter by integrations with sensors and IoT
S. Ipakchian Askari, B.M. Hofstede, N.E. Stolwijk, T.R.C. van Hoesel, H.H Nap

Deception in Social Robots for People Living with Dementia
F. Wang, Y. Feng, W.A. IJsselsteijn, and G. Perugia

Barriers and facilitators to social robot adoption in long-term care
E. Rossnagel, S. Freeman

ORAL PRESENTATION SESSION | Room 1315, Scotia Bank Lecture Hall

Application Fields & Innovative Technologies for an Aging Society: Robots

Chaired by: P. Bhowmick

Co-Designing Socially Assistive Robots for Canada's Aging Population: Insights from Older Adults and Family Caregivers in the Province of Quebec
A. Moreno, C. Rigoulat, C. Caamano, R. Cangalaya, M. Carré, R. Casimir, M. Chalbout, S. Gratton, J. Gravel, M. Alexandre, B. Krasniqi, C. Loranger, N. Oechsner de Coninck, A. Perrier, B. Raidy, F. Robichaud, É. Santonja, A. Salmi, E. Tiberghien, C. Turk, F. Moreno, D. Spooner

Understanding Older Adults' and Caretakers' Attitudes Toward Social Robots Using Sentiment and Thematic Analyses
B. Çonka Banuş, B.A. Urgen, Y. Afacan

Toward a Sustainable Care Robot Ecosystem: A Service Model Framework and Nursing-Home Service Model
M.J. Lim, W.K. Song

Robots for Older Adults with Cognitive Impairment: A Systematic Review
P. Bhowmick, T.S. Warren, R.A. Mudar, W.A. Rogers

Rehabot: Robot that Assists in Parkinsonian Gait Rehabilitation
F.S.M. Haniff, J.Y. Tan, J.T.H. Ang, J.C.Y. Kah

ORAL PRESENTATION SESSION | Room 1425, Repap Policy Room

Application Fields & Innovative Technologies for an Aging Society: Robots

Chaired by: V. Falcon

The impact of short-term companionship with social robots on technological anxiety among women at different behavioral levels of exercise
L. Li-Chuan Lin, C-Y. Lin, M-C. Ma, K. Tan

Evaluating the Feasibility and Usability of Human-Care Robot Services in a Residential Apartment Environment: A Daejeon Testbed Study
J. Kim

Exploring Older Adults' Perceptions of Trust in Human-Robot Interactions
V. Falcon, Y. Hu, W.A. Rogers

Using Tiny Social Robots to Bridge Generations: Perspectives of Older Adults and Students
L. Hung, J. Fu, V. Moros Villarroel, P. Vega, Y. Zhao, K. Raval, P. Santaella, D. Shao

1:00PM - 2:30PM | PARALLEL SESSIONS CONT'D

▷ ORAL PRESENTATION SESSION | Room 1510, Tree Island Conference Room

Governance, Social Policy, & Communication: Policy

Chaired by: C. Latulipe

Multidisciplinary Care in a Franchise Network of LTCFs in Brazil: An Experience Report from a Partner Company
E. de Faria Ferreira

Older-Adult-Led Innovtion and Community Resilience During COVID-19
Y.-T. Chiu

Risks, Benefits, Motivations, and Impact on the Work Environment of Unsanctioned Smart Technologies: A Scoping Review
K.M. Kokorelias, A. Grigorovich, K. Denecke, U. Rehman, A.M. Levy, M.T. Harris, R. Booth, J. McMurray

When Older Adults Delegate Taxes: Socio-Technical Issues
L. Wiebe, Z. Havens, M. Khan, C. Latulipe

Text analysis of disaster prevention policy documents for the older and vulnerable populations — Analysis of Japanese national and local government documents
K. Ishihara, S. Ishihara

▷ ORAL PRESENTATION SESSION | Room 1520, Barrick Gold Conference Room

Dementia & Technology

Chaired by: A. Astell

Exploring Sleepsense Bed Sensor Technology for Sleep Monitoring in a Geriatric Acute Care Unit
L. Hung, C. Acosta, Y. Zhao, K. L. Y. Wong, Y. Ye, J. Laurence, M. Towell

Co-creating a digital tool for assessing meaningful engagement in advanced dementia
K. Sakalidis, A. Astell

Unobtrusive Sensing Technology Detects Distinct Longitudinal Sleep Patterns in Individuals with and without Amyloid Pathology
Y-H. Cheng, J. Marcoe, N. Mattek, W-T. M. Au-Yeung, L. Silbert, Z. Beattie, H.H. Dodge, J.A. Kaye, C-Y. Wu

Music and dementia care: Future directions for AgeTech
A. Sixsmith, D. Hepdogan, M. Fang, A. Clements-Cortes, K. Overy

Digital tools to support people with mild cognitive impairment or dementia at work
E. Dixon, L. Gilman, K. Sakalidis, V. Owen, A. Astell

▷ ORAL PRESENTATION SESSION | Room 1530, Canadian Pacific Lecture Room

Aging & Disability: Mobility

Chaired by: E. Lotfalinezhad

Wearable Ultrasound Visual Feedback Training Improves Gait in Chronic Stroke: An 8-Week Randomized Controlled Trial
Y.-Y. Luo, M. Pang, L.-Y. Jia, F.-Y. Wang, H.-B. Liang, Z. Song, W.-T. He, C.Z.-H. Ma

Objective assessment of older adults' mobility using assistive devices through monitoring technologies: a scoping review
M. A. Almeida, F. O. Medola

Advancing Digital Health Equity Through Co-Design: The GAMAMM Serious Game for Powered Mobility devices Users
J. Desgroseilliers, P. Archambault, P. Plante, C. Auger, I. Savard, W.B. Mortenson, F. Routhier, G.A. Angulo-Mendoza, E. Koch, N. Roussel, A. Simard, H. Henry, M.A. Gilbert, C. Richard, L. Gosselin, K. Latulippe

Design of an Automated Finger and Toe Stretching Device for Quadriplegia
J. Santos, N. Endale, K. Kumar, S. Shams, H. Sharma, R. Huang, Y. Vafi, M. Kan, M. Chung, A. Mishima, N. Swan, E. Piskacek, M. Leung, R. Flora, A. Uriza Enrigue, A. Ren

FRIDAY, MARCH 27TH, 2026

1:00PM - 2:30PM | PARALLEL SESSIONS CONT'D

POSTER SESSION | TECK GALLERY - HC 1305

Room-Aware Behavioral Profiling for Cognitive Health Monitoring in Smart Homes
L. Takahashi, D.J. Cook, M. Schmitter-Edgecombe

Measuring the Impact of Social Robots in Dementia Care From the Perspectives of End-Users
S.E. Martin, K.A. Teng, J.M. Robillard

Active Health Intervention Outcomes in Elderly Diabetes Patients: A Scope Review
X. Jin, Y. Ai, X. Zhang

Self-Determined Neighborhood Living Through Technology Appropriation by Elderly: An Action-Research Study in Caring Communities
B. Pottharst, T. Altenhöner

Sensor-based assessment of Katz-defined care needs to support ageing in place: methodological lessons from the SANDRA project
S. Al Omari, B. Jansen, J. Lambert Cause, K. Giacomino, K. De Vliegher, J. Cooreman, J. Stiens, D. Beckwée

Profiles of Mature Drivers and Their Trust in Telematics-Based Safety Technologies
K. Van Benthem, B. Wallace, L. McCauley, J. Keillor, S. Marshall, F. Knoefel, T. Friedman, C. Herdman

"We see you. We feel you.": Motivations and impacts of sharing about dementia on social media
M.T. Tam, A. Peng, M.G. English, V. Hrincu, Z. An, K. Joseph, J.M. Robillard

Spousal Presence and Modifiable Factors of Cognitive Impairment among Older Adults with Hearing Loss: Cross-sectional Study using Machine Learning Approach
D Jung, S Shin, S Byeon, H Seo, L Yoo

Co-developing a learning health community for caregivers supporting older adults with dementia
C. Lai, M.C. Williams, S. Siriratne, A. Bye, M. Sakamoto, K Kasdorf

Interaction with ElliQ, an AI-Driven Social Companion Robot among Older People
S.Y. Kang, J.K. Kim, K. Pelish

From Comprehensive Geriatric Assessments at Home to Care Plans: Development and Digitization of Customizable Forms
W. Haque, S. Freeman, H. Fournier, G. Reimer

2:30 - 3:00 PM | REFRESHMENT BREAK

3:00PM - 4:30PM | Room 1400, Segal Centre

KEYNOTE ADDRESS BEN SHNEIDERMAN, PHD



TECHNOLOGY DESIGN TO SUPPORT CARING FOR AND LEARNING FROM OLDER ADULTS

Dr. Ben Shneiderman's bio:

4:30PM - 5:30PM | PARALLEL SESSIONS

SYMPOSIUM | Room 1400, Segal Centre

Scenario-Based Care Robot Development and User-Centered Innovation in Korea

Convenor: W-J. Shim

Implementation Insights from Smart Care Spaces: Focusing on the Bathing Care Environment
W-K. Song, J-E. Baek, G-Y. Kim, M-J. Lim, J-K. Lee

Scenario-Based Voice Interaction Development for Autonomous Mobility
W-J. Shim

Non-contact Vital-Sign Monitoring and Early Risk Detection for Safety Management in Older Adults
S-J. Park

Scenario-Based Development of an Assistive Feeding Robot
K-H. Kim, Y-M. Han

SYMPOSIUM **Runs 4:30 - 6:00 PM** | Room 1600, Canfor Policy Room

ISG Student Paper Contest 2026 – First Edition

Convenors: N. El Hajj & Y-L. Hsu

Automating Multisite-Muscle Segmentation in Ultrasound via Deep Learning through a Standardized Framework for Sarcopenia Assessment
D. Zhang, C. Wu, Y. Na, W. Li, K.S. Lee, Y. Sun, Y. Zheng

Implementing Multimodal Non-invasive Instrumental Clinical Assessment of Swallowing (MUNICAS): an exploratory study
W.Y.S. Lam, E. Kwong, R.C.K. Leung, S. Rai, L.K. Lui, M.S.W. Chan, S.Y.S. Poon, P.T.C. Shek, L.C.Y. Yip, C.H. Lee, W.F. Tsui, T.Y. Cheng

Development of an intelligent gas-sensing fecal collection bag for bedridden and incontinent people
F.J. Chuang, Y.H. Chiu, C.H. Chen

Systematic Review: The Role of Social Support Through Social Media in AI Technology Acceptance among Older Adults
L. Li, C.J. Smith

Understanding the usability of digital technologies in home-based neurorehabilitation: a realist review
N. El Hajj, D. Kairy, Q.N. Hong, F. Zeyour, C. Vincent, A. Thomas, S. Ahmed, N. Bier, C. Auger

Applicability of Sensor Technologies Data to Enhance Accuracy of Comprehensive Geriatric Assessment System
A. Panahi, S. Freeman, S. Jia, P. Jackson, W. Haque, R. Richard, S. Ebihara, H. Sato, S. Amirkhani Ardeh, H. Fournier

ORAL PRESENTATION SESSION | Room 1315, Scotia Bank Lecture Hall

House & Daily Living

Chaired by: C. Munteanu

Enhancing Person-centered Care in Nursing Homes: Demonstration and Evaluation of the ComPASS-21 Digital Preference Tool
A.A. Sterns, A. Adjei Gyimah, C. De Vilmorin, J. Moore, K. Van Haitsma, K.M. Abbott

Unsupervised, Personalized, and Interpretable Activity Recognition and Anomaly Detection in a Real-World Smart Home
K. Wang, A. Saragadam, J. Kaur, Y.E. Mahmoud, D. Istrate, P. P. Morita

The Privacy of Voice-Enabled Smarthome Technologies for Older Adults
C. Murad, C. Munteanu, C. Maddock, H. Molyneaux

Advancing Safe and Person-Centered Technology Integration for Older Adults in Home and Community Care
N. Oberoi & CSA Group

DEMANS24-26: a Horizon Europe project exploring home environments of older adults with dementia in Ankara
M.C. Ward, Y. Afacan

4:30PM - 5:30PM | PARALLEL SESSIONS

▷ ORAL PRESENTATION SESSION | Room 1425, Repap Policy Room

Application Fields & Innovative Technologies for an Aging Society: AI & Machine Learning

Chaired by: P. Jackson

Preliminary Study on LLM-Based Lifestyle Monitoring of Older Adults Living Independently Using Smart Water-Meter Event Data
B.M. Mathunjwa, Y.L. Hsu

Retrieval-Enhanced Large Language Models for Safer CBD Education for Older Adults: Evaluation Study
A. Abedi, C. H. Chu, S. S. Khan

Design and Evaluation of AI-Enhanced Support Systems for Older Adults' Digital Community Participation
Y.Nameki, N.Kurashima, K.Chin

Explainable and Trustworthy AI in Long-Term Care: A Socio-Technical Perspective
M. Kampel, V. Gallistl, R. von Laufenberg.

▷ ORAL PRESENTATION SESSION | Room 1510, Tree Island Conference Room

Governance, Social Policy, & Communication

Chaired by: W.D. Kearns

A Multi-Phase ICT-Driven Model for Sustainable Community Support in Super-Aged Societies: From Psychological Engagement to Multigenerational Mutual Aid
M. Mitsuoka, S. Ishihara, T. Nishimura

Stories at the Edge: Reframing Public Discourse on Elder Hijra Lives
N. Alam

Future Directions for Gerontechnology: Views of the ISG2026 International Scientific Program Advisory Committee
W. Kearns, A. Hanson, R. Alqasemi, Y. Afacan, T. Bock, J. Boger, D. Bouwhuis, C. Khasnabis, P. L. Teh, D. Meng, B. Mortenson, W. Shim & Y. Zheng

Designing digital health tools to support aging in place: Strategies to minimize perils and maximize promise
C. Nebeker

Comparative policy mapping of technology assistance for independent living of older adults
S. Ishihara, K. Ishihara

▷ ORAL PRESENTATION SESSION | Room 1520, Barrick Gold Conference Room

Dementia & Technology: Interventions

Chaired by: A. Agboji

Mitigating apathy among rural community dwelling older adults through an eBook club: A mixed method intervention study
A. Agboji, S. Freeman

Potential of digital games to cognitively engage people living with dementia
A. Astell, M. Bhatia, A. Said, E. Dove

A Library-based 'Tech Club' for Older Adults Living with Dementia and Their Care Partners
K. Kovalik, A. Innes, M. McLeod, U. Gilani, C. Dupuis, E. Burke

Can Gaze–Speech Coupling in Reading Help Clinicians Detect Cognitive Decline Remotely
A. Laghai, S. Shafiyan, N. Thomas, M. Kunz, K. Fraser, B. Wallace, R. Goubran, F. Knoefel

FRIDAY, MARCH 27TH, 2026

4:30PM - 5:30PM | PARALLEL SESSIONS CONT'D

▷ ORAL PRESENTATION SESSION | Room 1530, Canadian Pacific Lecture Room

Aging & Disability: Clinical

Chaired by: A.A. Sterns

Tech-to-Care: A One-stop Gerontechnology Service for Patients in a Hong Kong Hospital Setting
C.H. Jim, L.M.K. Sit, S.H.U. Fan, L.M. Tang, K.Y. Yip, P.M. Li, W.H. Chan, C.H. Chow, Y.Y. Ip, C.K.A. Tong, Y.H. So, W.K. Chow, T.N. Kwong, K.Y. Tse, C.K. Cheung, H.Y.C. Cheuk, C.M. Ho

Prioritizing digital educational resources on low-vision assistive technology for older adults through clinician-informed participatory methods.
H. Aminparvin, K. Latulippe, H. Boxerman, J. Renaud, C. Vincent, W. Wittich, K. Reidel, A. Raad, C. Auger & the MOVIT-VISION research team

Semi-Automated Echogenicity and Texture Feature Extraction from Quantitative Ultrasound Imaging on Suprahyoid Muscles for Swallowing using fine-tuned MedSAM2
M.S.W. Chan, E. Kwong, W.Y.S. Lam, Y.P. Zheng, C.K.W. Ng, J.C.F. Yu

Digital upskilling of trainers and rehabilitation of blind persons for work with refreshable braille displays
O. Tomarevska, O. Poliakov, N. Ellanska

Implementation of Radiomics Workflow in Understanding Oral Frailty: Ageing Associated Oral Function Deterioration
S.Y.S. Poon, E. Kwong, H. Chen, H.M. Chen, A. Leung, S.W.M. Chan, Y.S.W. Lam, C.L.A. Cheng

5:30PM - 6:30PM | PARALLEL SESSIONS

▷ SYMPOSIUM | Room 1400, Segal Centre

DemiCare+ project: Uniting disciplines in application development to increase resilience of informal carers

Convenor: N.E. Stolwijk

Diverse realities and needs: Understanding resilience in informal caregivers of people with dementia
K.M. Piskorska

Online Services for informal caregivers of people with dementia
W. Kratky

Micro-Interventions for Preventing Depression in Informal Caregivers of People With Dementia
M. Ciumageanu, A. Salceanu, M. Stroilescu, R. Sfetcu

Taking care together: co-design with caregivers. Inspiration for creative co-design research methods
N.E. Stolwijk and S. Ipakchian Askari

▷ ORAL PRESENTATION SESSION | Room 1315, Scotia Bank Lecture Hall

House & Daily Living

Chaired by: A. Torku

From Relationship Marketing to Relationship Outcomes: Exploring the Impact of Trust and Satisfaction among Long-Term Care Residents
C-K. Wei

The Vulnerability and Coping Mechanisms of Ageing Communities to Urban Heat Island Issues in Bangkok, Thailand
S. Tuntivivat, A. Oo, D. Minh

Impact of smart fecal sensing technology on caregiver workload and patient dignity in long-term care: A pilot study
F.J. Chuang, Y.H. Chiu, C.H. Chen

Effects of smartphone and smartwatch use while walking: a dual-task study with aging simulation kit
F.O. Medola, P.C.R. Oliveira, M.A. Almeida, A.G. Favoretto, R.T. Monteiro, G. Christofoletti

Beyond Perception: Physiological Insights into How Older Adults Navigate Stress in Urban Complexity
A. Torku, A.P.C. Chan

5:30PM - 6:30PM | PARALLEL SESSIONS CONT'D

▷ ORAL PRESENTATION SESSION | Room 1425, Repap Policy Room

Application Fields & Innovative Technologies for an Aging Society: Health Literacy & Usability

Chaired by: R. Diekmann

Empowering Older Adults Through Digital Literacy: Housing Navigation and Social Connection Initiatives in New Westminster, B.C.
A. Silgardo

As-Tra: User-Centered Development, and Evaluation of a Technical Assistance System for Older Adults to Improve Nutrition and Mobility
R. Diekmann, M. Förster, R. Puhlemann, M. Timper, V. Quinten

Artificial Intelligence Literacy in Korean Older Adults: Psychological and Technology-Related Factors
H.J. Lee, J.W. Lee, D.H. Lee, H.R. Shin, Y.S. Kim

Who Is Represented in ChatGPT Usability Studies? A Scoping Review on Age Diversity
A. J. Kim, M. Choi

Technostress Profiles, Predictors, and Differences in Acceptance of Transfer-Assistive Robot Among Older Healthcare Workers
H.J. Yoon, J.W. Lee, N.H. Kim, S.W. Ban, H.R. Shin, Y.S. Kim

▷ ORAL PRESENTATION SESSION | Room 1520, Barrick Gold Conference Room

Dementia & Technology: Interventions

Chaired by: C. Wilkinson

Impact on the use of gerontechnology in group activities for persons with dementia: a pilot study
E. Tam, J. Chan, V. Chan, Y Chan, K.F. Wong, A Chung, A. Mak, Y.P. Zheng

Understanding the implications of a SAR lead cognitive training intervention for older adults with and without MCI
G. Mois, C. Page, B. Collette, K. N. Smith, C. Wysocky, P. Gibson, K. G. Emerson, S. Correia, L. Boccanfuso, A. Ramachandran, L. M. Renzi-Hammond, J. M. Beer

Tackling robotic animal intervention challenges through trialing techniques, tooklkits, and training
C. Wilkinson, A. Jackson, J. Beauregard, B. Livingstone, C. Maleta, A. Arce, M. Bosnich, A. Stephens-Beaudoin

User experience and acceptance of using social robots for dementia care
D. Bai, Y.L. Hsu

▷ ORAL PRESENTATION SESSION | Room 1530, Canadian Pacific Lecture Room

Ethics & DEI (Diversity, Equity and Inclusion)

Chaired by: J.O.Y. Wong

Creative Aging and Community Through the Making of Silver Screamers
S. Cisterna

Strengthening Digital Inclusion among Older Adults through Community-Based ICT Hubs: Evidence from ICT Sarangbang
Y.R. Park, S. W. Kang, C. H. Park

Consent at the Core: Ethical Perspectives from Stakeholders of the Côte Saint-Luc Living Lab
M. Couture, R.-P. Filiou, T. Tannou, C. Bottari, T. Lihoreau, H. Pigot, S. Pelayo, X. Ferrer, R. Wang, C. Gouin-Vallerand, G. Paré, S. Gaboury, K. Bouchard, S. Smele, S. Giroux, N. Bier

The participatory process on co-creating a virtual reality program in long-term care: A Critical Reflection
L. Hung, J.O.Y. Wong, K.L.Y. Wong, A. Soni, M. Van, S. Kholmatov, K. Lee, J. Mann, A. Lim, W.B. Mortenson

Assistive Technology Access and Use Among Older Adults from Different Canadian Cultural Groups
W.B. Mortenson, N. Chang, C-T Tsai, C. Yu, B. Kardeh, S. Gang. D. Song, J. Perkins, S. Huot, L. Hurd

FRIDAY, MARCH 27TH, 2026

6:00 - 7:00PM | PARALLEL SESSIONS

SYMPOSIUM | Room 1600, Canfor Policy Room

Interventions to Enhance Digital Literacy and Telehealth for Older Adults

Convenor: E.T. Remillard

Three Community Models for Enhancing Older Adult Digital Literacy
P.P. Freddolino, F. Sun, D. Wishart, H.N, Kim, A. Lingard, A. Schneider

Community-based Digital Literacy Programme and BruHealth 5.0 Application in Brunei Darussalam
S. M. Mohamad

Digital Literacy and Aging Adults: The Benefits of User Centered Design and Instructional Support
S.J. Czaja, F. Falzarano

Tele Tai Chi: Case Studies in Deploying a Virtual Wellness Program in Community-Based Settings
E.T. Remillard, T.L. Mitzner, K.T. Mumma

SATURDAY, MARCH 28TH, 2026

8:30AM - 10:00AM | Room 1400, Segal Centre

KEYNOTE ADDRESS PROF. JON A. SANFORD, M. ARCH



IMAGINE A WORLD OF GERONTECHNOLGY WITHOUT GERONTECHNOLOGIES

Prof. Jon A. Sanford's bio:

10:00AM - 10:30AM | REFRESHMENT BREAK

10:30AM - 12:00PM | PARALLEL SESSIONS

SPONSORED SYMPOSIUM | Room 1400, Segal Centre

Designing Technology Solutions to Support Caregivers

Convenor: R.M. Mudar

Caregivers Aging with a Disability: Challenges and Opportunities for Technology Innovation
E.T. Remillard, M. Raj, K.A. Miller, W.A. Rogers

Care Partner Preferences on the Design and Development of Fall Detection System for Older Adults who use Wheelchairs
L.A. Rice, D. Peeler, A. Tangonan, S. Shi, P. Presti

User-Centered Needs Assessment for Designing and Refining the Care Partner Medication Education, Decision Support, Reminding, and Monitoring (CaP-MEDSReM) System
J. Shim, R. Bhadrachalam, S. Nippani, C. Smith, O. Boamah, R. A. Mudar

Beyond the 'Primary User': A Caregiver–Centered Case Study of Stretch Robot in Home Care
P. Bhowmick, S.A. Olatunji, V. Nguyen, R. A. Mudar, J. Evans, W.A. Rogers

10:30AM - 12:00PM | PARALLEL SESSIONS CONT'D

SYMPOSIUM | Room 1600, Canfor Policy Room

Operationalizing Wellbeing Frameworks for Ageing Societies: ISO 25554 and Care Innovation

Convenor: H. Sato

What is Wellbeing in ISO 25554:2024? Principles, Governance, and Continuous Improvement
H. Sato, M. Hosono

Developing Care Standards in ISO 25557 and Creating Wellbeing in Care Fields
H. Miwa

Utilizing D-CGA with ISO 25554 Framework for Aging in Place
S. Freeman

Building an AgeTech Theory of Change to Operationalize Wellbeing and Inform Impact Metrics
H. McNeil, C. Genge, & Metrics Working Group

ROUND TABLE | Room 1510, Tree Island Conference Room

Looking back, looking forward: ISG Past-presidents' Roundtable

Convenor: G.M. Gutman

Participants: V. Taipale (Finland), A. Sixsmith (Canada), W.D. Kearns (USA), H. Kort (Netherlands)

ORAL PRESENTATION SESSION | Room 1325, Axa Pacific Conference Room

Healthy Inclusive Environments & Healing Architecture

Chaired by: S.C. Pistritto

Hotel Managers' Perspectives on Recliner Chairs and Age-Inclusive Travel
Nease, B., Vera Laime, M., Schein, C., Donelle, L., Khoo, C

Creating Supportive, Dementia-Friendly Communities Through Design: A Scoping Review
S.C. Pistritto, K. Fatima, M. Lemonde, B. Gamble, K. Kay, S. Omlin, G. Barrie, W. Sun

Emotional Living Spaces – Development of a Methodology for Identifying and Designing Emotional Spaces
A. Röder, C. Günther

Intelligent Monitoring System for Elderly Care based on IoT and Machine Learning
A. Jesus Sanchez-Gil, F. Moreno-Velez, J. Romero-Alvarez, J. Alvarado-Valiente, E. Moguel, J. Garcia-Alonso, J.M. Murillo

ORAL PRESENTATION SESSION | Room 1425, Repap Policy Room

Application Fields & Innovative Technologies for an Aging Society: Supportive Aging

Chaired by: L. Hurd

Implementation and Evaluation of Privacy-Preserving Computer Vision-Based Fall Detection Technology in Residential Care and Assisted Living: A Staff Satisfaction Study
L.G. Franciosi, P. Magtibay

Older Adults' Perceptions and Experiences of Information and Communication Technologies
L. Hurd, C. Tran, E. Delorme, E.V. Bennett, W.B. Mortenson

Empowering Older Adult Participants in Research with Adaptive Digital Interactive Informed Consent
F. Abujarad, C. Edwards

Feasibility of Using Smart-Plug Television Data for Lifestyle Monitoring in Older Adults Living Independently
B.M. Mathunjwa, S. Maiti, A. Banerjee, Y.L. Hsu

SATURDAY, MARCH 28TH, 2026

10:30AM - 12:00PM | PARALLEL SESSIONS CONT'D

ORAL PRESENTATION SESSION | Room 1520, Barrick Gold Conference Room

Dementia & Technology: Community

Chaired by: Y.T. Chiu

User-Centered Development of AreaAlzheimer: study case and future perspectives
D. Piromalli, M. A. Cañadas-Romero M. Ivirico, L. Ortiz, M. Sánchez-Valle, M. Suárez-Calvet

Assistive technology and home care: Experiences of older adults with and without dementia in Sweden
J. Borg, M. Alam, A.M. Boström, L. Marmstål Hammar

Digital Companions for Dementia Care: A Scoping Review
Y.T. Chiu

A Human-Based Platform to Support the Development of Interventions for Healthy Cognitive Ageing
O.Y. Hung

ORAL PRESENTATION SESSION | Room 1530, Canadian Pacific Lecture Room

Ethics & DEI (Diversity, Equity and Inclusion): Measures

Chaired by: A.A. Sterns

From Methods to Mindset: Building Empathy Through User-Centered Product Development in Engineering Education
D. Völz, K. Küber, T. Stender.

Finnish older people with digital devices – Experiences of acquisition, implementation and use
S. Hiltunen, L. Hyle, T. Riikonen

Attitudes of the Elderly Towards Technology in a Sample of 60+Tazelenme University Students
İ. Tufan, Ö. Özgür, F. G. Agildere

POSTER SESSION | CIHR STUDENT POSTER CONTEST | TECK GALLERY - HC 1305

Stacked Ensemble Models for Multi-Department LOS Prediction in Geriatric Patients
A. Thippeswamy, P. Jackson, R. Richard, S. Freeman

Older adults' physical function assessment digitization: usability and clinical value–rapid review
S. Shamanian Esfahani, G. Crockford, J. Rempel

Hydroponic Green Walls in Long-Term Care: Workload, Engagement and Lessons from a Multi-Site Evaluation
S. Otalvaro Zapata, A. Panahi, S. Freeman

Research priorities on aging and technology that matters most to older adults in rural and remote areas
A. W. Bye, M. C. Williams, L. M. Hung, S. Siriratne, K. Kasdorf, D. Guzek, C. Lai

Exploring Older Adults' Privacy Preferences through Co-Design of Private and Public Dashboards in AAL Environments
H. Jo, M. Brehmer, J. Wallace, P. P. Morita

Toward Accessible Remote Physiotherapy: A Markerless Motion Tracking System Using Adapted Consumer-Grade Sensors
J. Gajdacs, Q. Fang, P. Santaguida, M. Pouromidi

Staying Connected: Exploring Older Adults' Self-Reported Effects of In-Person and Virtual Intergenerational Programming
J. Downer, N. Dalmer

A 'Tech Club' for Older Adults, People Living with Dementia, and Care Partners: A Co-designed Initiative
K. Kovalik, J. Downer, A. Innes, M. McLeod, C. Dupuis, A. Sultana, & E. Burke

Regional adaptation of a Computer Interactive Reminiscence Conversation Aid to Support Persons Living with Dementia
S. Otalvaro Zapata, E. Rossnagel, A. Phinney, J. Jakobi, A. Astell, S. Freeman

SATURDAY, MARCH 28TH, 2026

10:30AM - 12:00PM | PARALLEL SESSIONS CONT'D

POSTER SESSION | CIHR STUDENT POSTER CONTEST | TECK GALLERY - HC 1305

Community-Driven Perspectives on Research Participation and Technology Engagement Among Rural Older Adults in Northern Canada
S. Otalvaro Zapata, E. Rossnagel, L. Chambers, S. Freeman

Predictors of Accuracy on an Online Health Information Search Task Among Older Adults
S. Rahman, M. Schmitter-Edgecombe

Protocol: Spanish Adaptation of a Digital Health Readiness Screener
J. Rayo, R.L. Fritz

12:00PM - 1:00PM | LUNCH

12:00PM - 1:00PM | LUNCH HOUR SESSION

ROUND TABLE | Room 1510, Tree Island Conference Room

ISG Round table: Assistive technology and gerontechnology – An odd couple or a perfect match?
Convenor: W.D. Kearns
Participants: C. Khasnabis (India), J. Borg (Sweden), A. Mihailidis (Canada)

1:00PM - 2:30PM | PARALLEL SESSIONS

SYMPOSIUM | Room 1400, Segal Centre

Co-Designing the Future of Ageing: Human-Centered Robotics and AI for Rehabilitation and Independence
Convenor: D. Beckwée

Innovation through robotics: Person-centered design to enhance human-robot interactions
W. A. Rogers & T. L. Mitzner

Integrating Older Adults' and Physiotherapists' Perspectives and Fatigue Assessment for Next-Generation Assistive Exoskeletons
D. Beckwée

Human-Centered AI to Transform Digital Reminder Systems for Dementia Care
A. Mihailidis

Ghostly: Development Pathway of a User-Centered, Electromyography-Driven Exergame for Strength Training in Vulnerable Populations
E. Swinnen

SYMPOSIUM | Room 1600, Canfor Policy Room

Celebration of 9th Grand Master Yeh-Liang Hsu
Speakers: ISG President Helianthe Kort (Chair)
Grand Masters Vappu Taipale, J.E.M.H. Van Bronswijk, Shigekazu Ishihara, Neil Charness, James Fozard
Yeh-Liang Hsu
IAGG Past-President Gloria Gutman

1:00PM - 2:30PM | PARALLEL SESSIONS CONT'D

▷ ORAL PRESENTATION SESSION | Room 1325, Axa Pacific Conference Room

Health & Self Esteem

Chaired by: H.H. Nap

Home-based diagnostic imaging services: Capturing the Stakeholders' Views
G.F. Costa, M.P.M. Gobis, L.J. Lorenzi, T.M. Raymundo, H. Kort, P.C. Castro

Exploring AI-Supported Creative Learning in a Multi-modal Health Promotion Course for Older Adults: A Pilot Study
W. H. Chen, T. J. Lee

Smart Technology Applications in Exercise and Care for Community-Dwelling Older Adults
E. Lin

Mental Alertness and Heart Rate via Smartwatch Predict Everyday Cognition: Multilevel and Person-Specific Analyses
E. French, C. Luna, S. Dai, D. Cook, B. Minor, M. Schmitter-Edgecombe

▷ ORAL PRESENTATION SESSION | Room 1425, Repap Policy Room

Application Fields & Innovative Technologies for an Aging Society: Monitoring & Assessment

Chaired by: M. Kunz

Digitalized fall risk assessment for community-dwelling older adults: a wearable sensor-based solution
K-J. Li, A.K-L. Chung, C.Z-H. Ma

Vision-based stability assessment for older adults using low-cost RGB-D camera: an experimental validation study
M. Kunz, D. Jiang, N. Jafari, M. Lim, H. Owens, K. Ho

Effects of rTMS on Executive Functions in Preclinical Older Adults: Systematic Review and Meta-Analysis
H.T. Pang, K.N.K. Fong, T.G. Melesse, R.Chung, J.J.Q. Zhang, H.C. Ju

Adaptive system for autoencoder-based anomaly detection in daily routines
D. Gibietz, D. Helmer, E. Godehardt, H. Hinkelmann, T. Hollstein

Low-Cost CSI-Based Activity Monitoring and Feedback for Single-Resident AAL Environments
D. Helmer, D. Gibietz, H. Hinkelmann, T. Hollstein

▷ ORAL PRESENTATION SESSION | Room 1520, Barrick Gold Conference Room

Dementia & Technology: Caregiving

Chaired by: T. Dunn

Exploring Stress Factors Among Family Caregivers of Older Adults with Dementia Using a Virtual Agent
N. Okamoto, R. Kase, C. Greiner, M. Nakamura

Exploration of factors associated with stress among family caregivers taking care of people with dementia
C. Greiner, H.L. Chiu, C. W. Huang, M. Nakamura

Supporting Those Who Care: A Community-Led Dementia Education Program for Family Caregivers
S. Freeman, A. Panahi, L. Hayman, T. Dunn

The Potential for Automated Bidets to Reduce Caregiver Burden in Eldercare: A Meta-Analytic Review
P.J. Fameli & TBA

1:00PM - 2:30PM | PARALLEL SESSIONS CONT'D

ORAL PRESENTATION SESSION | Room 1530, Canadian Pacific Lecture Room

Ethics & DEI (Diversity, Equity, and Inclusion)

Chaired by: M. Couture

Understanding Loneliness Among Rural Elderly: An Interdisciplinary Exploration of Technological Solutions
D. Conde-Caballero, J. Luengo Polo, V.A. Muñoz Ortega, E. Naharro Gil, B. Rivero Jiménez, L. Mariano Juárez

Identifying risks of mistreatment: Perspectives of stakeholders who used telemonitoring of activities of daily living
M. Couture, R.-P. Filiou, T. Tannou, P. Belchior, R. Wang, A., Aboujaoudé, S. Giroux, N. Bier

Can the implementation of telehealth support aging in place for 2SLGBTQIA+ seniors?
E. Berthelet, J. Marchbank, R. deJong, G. Waunch, J. Boychuk

Older adults using Pleo for two weeks: Can a social robot really reduce loneliness?
S. Baisch, T. Kolling

A Global Perspective on Barriers and Facilitators for Digital Health Technologies for Marginalized Older Adults
J. van Waterschoot, A. Ríos Rincón, M. Bults, C. Daum, G. Diallo, V. Dolničar, J. Fernandes, M. Figeys, O.B. Guzmán Suárez, S. Hvalič-Touzery, D. Istrate, M. Kavčič, L. Liu, T. Kodama, A. Miguel-Cruz, P.P. Morita, M. Mutumba-Nakalembe, R. Namaganda, T. Ohyanagi, M. den Ouden, I. Ouedraogo, N. Rijken, P. Rumeau, H.Singh, B. Sylla, N. Vigouroux

POSTER SESSION | TECK GALLERY - HC 1305

A Pulse of Comfort: Exploration of a Cuddle Doll with Heartbeat for People with Dementia
S. Ipakchian Askari, M.L. Post, T.R.C. van Hoesel, J. Fennell, H.H. Nap

Considerations in a Digital Compensatory Application for Older Adults with Memory Concerns
H. McDougle, S. Rahman, C. Van Son, M. Schmitter-Edgecombe

Psychotropic-Related Hip Fractures: A Rapid AI-Assisted Systematic Review
J. Lake, P. Rani, J. Young, V. Tiase, K. Kallmes, C. Asche

Quality Assurance Evaluation of HealthConnex Infection Prevention Control Software in Residential Care
L. G. Franciosi, P. Magtibay

Enhancing Communication and Reducing Behavioral Challenges Through AI-Powered Real-Time Translation in Multilingual Long-Term Care Settings
L.G. Franciosi

Bridging accessibility gaps in self-service environments with mobile conversational AI: A usability study
W. Hong, A. J. Kim, J. Park, H. W. Ka, I.C. Moon, M. Choi

Typologies of older adult engagement with AI check-in calls: a latent class analysis of Naver CLOVA CareCall users
E.C. Khor, M. Choi

Wearable-Sensors-Enabled Real-Time Decision Support in Geriatrics
W. Haque, S. Freeman, H. Fournier, V. Gami, D. Pandya

Who Trades Privacy for Convenience? Age Effects in Smart Home Technology Use
E.V. Di Nallo, P.K. Mishra, C.H. Chu

2:30 - 3:00 PM | REFRESHMENT BREAK

SATURDAY, MARCH 28TH, 2026

3:00PM - 4:30PM | Room 1400, Segal Centre

KEYNOTE ADDRESS COURTNEY GENGE, PHD



FROM INNOVATION TO IMPACT: BRIDGING THE GAP BETWEEN IDEAS AND IMPLEMENTATION

Dr. Courtney Genge's bio:

4:30PM - 5:30PM | PARALLEL SESSIONS

SYMPOSIUM | Room 1400, Segal Centre

Using Extended Reality for Training, Education, and Social Engagement

Convenor: W.A. Rogers

Older Adults Perceptions of and Preferences for Virtual Reality Applications
S.J. Czaja, S. Zhang, P. Bhowmick, W.R. Boot, N. Charness, W.A. Rogers

Virtual Evaluation, Real Impact: Developing a Mixed Reality-Environment for evaluation of Digital Assistive Technologies in care of older adults.
D. Völz, L. Schmidt, S. Resch

Development and Evaluation of Mixed Reality Training Scenario for Surgical Technologist Trainees
J. Sehrt, Y. Söleyici, C. Severino, S. Minsch

A Research Agenda for Using Extended Reality to Support Older Adults with Cognitive Impairment
W.R. Boot, S.J. Czaja, S. Kalantari

SYMPOSIUM | Room 1600, Canfor Policy Room

Empowering Independence: Human-Centered Robotics to Support Everyday Living for Older Adults

Convenor: P. Bhowmick

Geriatronics in the View of Robot Applications and Capabilities for Activities of Daily Living
L. Figueredo, S. Stahl, A. Teirmoordezah, S. Haddadin, K. Bengler, I.L. Salvamoser

Improving Robot Understandability by Bridging Human–Robot Discrepancies
S. Kumar, Y. Edan, S. Bensch

Robotic Rehabilitation to Retrain Functional Reach and Grasp with Everyday Objects After Stroke
A. Raji, C. Marquez–Chin, M. Popovic

Showering Barriers and Interaction Preferences of Older Adults with Mobility Disabilities for a Robotic Showerhead
P. Bhowmick, K. Shahid, Z. Ren, G. Krishnan, W.A. Rogers, I.M. Rice

ROUND TABLE | Room 1510, Tree Island Conference Room

Collaboration and exchange between ISG Chapters: A Round Table Discussion

Convenor: H.S.M. Kort

Participants: J. Garcia-Alonso, W. Kearns, F. Orsi Medola, G. Gutman, V. Taipale

4:30PM - 5:30PM | PARALLEL SESSIONS

▷ ORAL PRESENTATION SESSION | Room 1325, Axa Pacific Conference Room

Work, Leisure, & Social Participation

Chaired by: A. Grigorovich

A Study on Visualizing Social Connections of Older Adults Using a VA Listening Service
D. Kamata, A. Matsukawa, N. Kim, T. Nakata, K. Katagiri, M. Nakamura

The Evolving Landscape of Gamification for Older Adults: Evidence From a Systematic Review
W. Hong, M. Choi

Ecological Validity of an Accessible Gaming Interface in an Older Stroke Survivor: A Single-Case Lab-to-Home Study
M.J. Lim, P.H. Lee, W.K. Song

Exploring integration and use of voice assistants with older adults over time
A. Grigorovich, M.T. Harris, M. Badger, M. George, A.M. Levy, K.M. Kokorelias, J.M. McMurray.

Happy Feet: A Dance Exergame to Encourage Physical Activity Among Older Adults
J.W.H. Leong, J.L. See, Z.Y. Tan, Y.M. Toh, J.C.Y. Kah

▷ ORAL PRESENTATION SESSION | Room 1425, Repap Policy Room

Interdisciplinary

Chaired by: L. Letts

Developmental Evaluation of the IAMABLE app: Providing web-based rehabilitation self-management supports for people with multiple chronic conditions
L. Letts, J. Richardson, S. Sinclair, J. Miller, J. Smith-Turchyn, D. Chan, C. Donnelly, J. Gravesande, S. Wojkowski

Embedding Agetech in Occupational Therapy Education: Reflections on Curriculum Development
A. Flynn

Beyond access: Age-inclusive design and deployment of digital technologies
D. Balasubramaniam, J. Williamson, R.K. Selva Kumar, Y. Farag, G. Narra, F. Thomson, K.M. Boyd

Exploring the Virtual Urgent Care Needs of Older Adults
S.L. Hitzig, M. Motsenok, O. Kachmarchuk, B. Ingaramoorthy, B. Liu, S. McKay, J. Smith, J. Sugarbroad-Keele, N. Ziegler, J.N. Hall

▷ ORAL PRESENTATION SESSION | Room 1520, Barrick Gold Conference Room

Dementia & Technology: Co-creation

Chaired by: E. Dove

Co-Creating Immersive Indigenous VR Stories to Enhance Meaningful Engagement in Acute Care Settings
L. Hung, A. Soni, S. Arora, J.O.Y Wong, J. Wong, J. Zeid, G. Kendre, K. Lima, B. Chakraborty, K. Yan, S. Laderas, L. Ren, L. Jackson, B. Best, L. Fisher, S. Freeman, W.B. Mortenson, A. Lim

People living with dementia co-producing rehabilitation exergame requirements
E. Dove, R. Wang, K. Patterson, A. Astell

Co-designing a daily management tool to support individuals living alone with Alzheimer's disease
S. Pimento, H. Agarwal, A. Gohil, P. Yadav, T. Patil, P. Hegde, P. Koppolu, A. T. Weakley, S. Karia, S. Namboodiri, K. Carrion, X. Liu, S. Tomaszewski Farias, A. Weakley

Khadija Care: A caregiver-developed mobile app blueprint for home-based dementia support
S.Maarouf, G.Maarouf

SATURDAY, MARCH 28TH, 2026

4:30PM - 5:30PM | PARALLEL SESSIONS CONT'D

ORAL PRESENTATION SESSION | Room 1530, Canadian Pacific Lecture Room

Application Fields & Innovative Technologies for an Aging Society: VR

Chaired by: J.A. Moreno

Playful Home-Based AR Applications: Increasing Physical Activity in the Elderly for Prevention and Rehabilitation
K. Meyer, P. Rolfes-Gehrmann

Usability and Safety of a Canadian Virtual Reality Technology for Symptom Reduction in Geriatric Palliative and End-of-Life Care in a Hospital Setting
A. Moreno, C. Rigoulat, M. Dubois, C. Pichon, P. Pelletier, C. Turk, C. Caamano

The Use of Cognitive Prosthetic for Enhancing Medication Adherence in Older Adults with Diabetes
W. Bayer, A.A. Sterns

Imagining a co-created virtual immersive program in long-term care with residents, family, and staff
M. Van, J.O.Y. Wong, A. Soni, B. Huynh, S. Arora, J. Mann, C. Wallsworth, L. Wong, W.B. Mortenson, A. Lim, L. Hung

Remote Technological Assessment of Medication Adherence in Older Adults
R. Jenkins, L. Takahashi Dos Reis, D. J. Cook, M. Schmitter-Edgecombe

5:30PM - 6:30PM | Room 1400, Segal Centre

GENERAL ASSEMBLY

SOLD OUT 7:00PM | 321 Water Street

GALA DINNER (OPTIONAL)
AL PORTO RISTORANTE

Doors open 7:00PM, Dinner served 7:30PM

SUNDAY, MARCH 29TH, 2026

8:30AM - 10:00AM | PARALLEL SESSIONS

SYMPOSIUM | Room: 1400, Segal Centre

Digital divide theory: What is old is new again in an era of health technology and artificial intelligence

Convenor: M. Bults

The digital divide in remote Indigenous and underserved aging communities
P.P. Morita, G. Bin Noon, S. Salim, M. Bults, M.E.M. den Ouden, D. van der Linden, C. Daum, H. Ross, A. Simard, A. Miguel Cruz, L. Liu

Bridging the gap: Preparing healthcare professionals for a digital future
M.E.M. den Ouden, A.M. Tinga, G.C. Kloek, P.P. Morita, A. Rios Rincón, S.W.M. Groeneveld

Supporting ethical conversations regarding technology and the future of care for older adults: Participatory tools for care and reflection
S. Groeneveld, T. Van Katwyk

8:30AM - 10:00AM | PARALLEL SESSIONS CONT'D

▷ SYMPOSIUM | Room: 1600, Canfor Policy Room

The University's Role in Taiwan's Ministry of Education Program for Gerontechnology Talent Development

Convenor: L.Y. Guo

Industry-Academia Matchmaking and Link the Unique Strengths of Each University to Support for Cross-Campus Teams
C.C. Yang, H.F. Tsai, C.H. Chen, H.X. Chen, L.Y. Guo

Cultivating Smart Long-Term Care Talents through Cross-Disciplinary Innovation and International Collaboration
Y.H. Tsai, C.H. Chuang

Integrating Gerontechnology into Dementia Education: A Cross-Domain Talent Cultivation Model
W.C. Cheng, P.C. Su, C.Y. Yu, J.Y. Chen, Y.H. Tsai

Advancing Gerontechnology Education by Bridging Classroom and Industry at Chang Gung University: A Collaborative Ecosystem for Talent Development
C.Y. Wu, Y.L. Lo

▷ ORAL PRESENTATION SESSION | Room 1315, Scotia Bank Lecture Hall

Application Fields & Innovative Technologies for an Aging Society: Hospital/Clinical

Chaired by: M. Khalili

Nursing Students' Experiences of Geriatric Smart Care: A Qualitative Exploration at the Intersection of Technology and Humanistic Care
R. Wang, Y. Ai, Y. Liu, Z. Wan

Early Screening and Evaluation of Sarcopenia Based on Stretchable Strain Sensors
J-Y. Yang, Y-W. Chen, C-H. Chuang

Effectiveness of the tongue vibration training in middle-aged to elderly patients with obstructive sleep apnoea
C.H. Chen, Y.J. Chen, C.H. Chueh, C.L. Lee

Robotic O2 Generator Carrier for Long-Term Oxygen Therapy Patients
H. Tran, T. Mukhambet, R. Pham, K.Q. Duong, W.D. Kearns, Y. Sun

Assessing Walking Aid Use in Older Adults: An Exploratory Review of Measurement Approaches
M. Khalili, Y. Jones

▷ ORAL PRESENTATION SESSION | Room 1325, Axa Pacific Conference Room

Application Fields & Innovative Technologies for an Aging Society: Framework/Standards

Chaired by: G. Bin Noon

Digital Physical Activity Metrics from Wearable Devices and Handgrip Strength in Middle-Aged Adults: A Cross-Sectional Study Using Smartwatch-Based Monitoring
A.B.S. Moura, M.C.S.C. Nanque, M.S.G. Lima, A.K.G. Nascimento, B.G. Silva, E. Fittipaldi, J. Fernandes

Validating AgeLign: An AgeTech Standards Search Engine
F. Zaffino, S. El-ghazal, S. Abhari, G. Bin Noon, T. Joshi, P. Debergue, C. Genge, H. McNeil, J. McMurray, P.P. Morita

GUIDE-13 rapid review framework: assessing the effectiveness of hybrid and digital care processes in long-term care: A case study into technologies for fall prevention.
T.R.C. van Hoesel, R.T.E. Rinzema, I.L.G. Dantuma, H.H. Nap

FrailTrack: A Technology-Supported Approach to Ecological Frailty Assessment
J. Campello-Serrano, P. Climent-Perez, C. Huesca-Spairani, F. Florez-Revuelta

8:30AM - 10:00AM | PARALLEL SESSIONS CONT'D

▷ ORAL PRESENTATION SESSION | Room 1520, Barrick Gold Conference Room

Dementia & Technology: LTC, Hospital, or Clinical

Chaired by: T. Dunn

WhatMatters: a digital app to advance person-centred dementia care in hospitals
L. Hung, J. Wong, Y. Zhao, K. L. Y., Wong, G. Kendre, D. Roy, D. Shao, Y. Ohno, J. Mann

Remote assessment of cognition in participants with and without amyloid PET positivity
A. Speers, N. Mattek, K. Duff, J. Marcoe, Z. Beattie, J. Kaye

A Framework for Predicting Fine-grained Behavioral and Psychological Symptoms of Dementia Using Machine Learning Techniques and Smart Wearable Devices
V.S. Tseng, O.T-Y. Chen, B-W. Yao, Y-H. Yang

Effect of an Occupational Therapy Discharge Planning Program on Functional Participation in Older Adults: Smartphone Based Application Outcome
A. Kumar Barik

A Multi-Task Deep Learning Model for Dementia Presence and Severity Prediction from Brain MRI
A. Anzer, A. Aighobahi

▷ ORAL PRESENTATION SESSION | Room 1530, Canadian Pacific Lecture Room

Application Fields & Innovative Technologies for an Aging Society

Chaired by: C. MacKay

Grief Practices and Artificial Intelligence: Transformations of the (Im)Perishable
L. Bischoff, A. Depner, J. Ewert, K. Kümpfel, N. Merkel, F. Oswald, F. Schrading, F. Wolf

Development and Usability Testing of a Physical Activity Intervention Using Coaching and Technology following Amputation
C. MacKay, W.C. Miller, A. Tobia, B. Lau, J. Campbell, P. Flora

Impact of a Non-Verbal AI Communication Robot on Care Staff in a Disaster-Affected Japanese Facility
D. Haba, R. Miyashita, K. Tatsukawa, T. Kondo, F. Ohashi, A. Kitamura, C. Konya, H. Sanada, M. Matsumoto

Apollo–Sustainable Intelligent Community Health Service for Older People In Remote Areas
C.T. Wu, Y.Y. Tsai, K.Y. Lin, Y.C. Chien, H.H. Liou, K.C. Chang

▷ POSTER SESSION | TECK GALLERY - HC 1305

Impact of Cognitive Status on Technology-Based and Traditional Strategy Use Supporting Prospective Memory in Aging
T. Hale, N. Whiteley, M. Schmitter-Edgecombe

An Electronic Temperature-Controlled Cane Improves Gait Stability and Autonomic Balance in Middle-to-Older-Aged Adults
K-M. Chou, C-H. Yang, M-Y. Liu

Stroke Survivors' Perspectives for Assistive Exoskeleton Development
E. Swinnen, R. Claeys, E. Embrechts, A. Bourazeri, S. De Raedt, C. Moeyersons, B. Filtjens, T. Verstraten, D. Beckwée

Machine Learning-Based Fall Prediction Models for Older Inpatients: A Systematic Review
J.H. Lee

Social Care Robots on Depression and Psychosocial Well-being in Older Adults: An Systematic Review
Y.H. Jin, H.R. Shin, Y.S. Kim

Housekeeping Robots as a Solution for Aging in Place? An Analysis of User Needs and Technology Applications of Smart Housing for the Elderly in Taiwan
C. Yang, K. Y. Lu, P. J. Shih

Improving Sleep in People with Dementia: Integrating a Biosensor and Personalized Sleep Feedback with the Claris Companion Tablet
L.H. Ren

The Effect of Digital Literacy on Older Adults' Intention to Use Digital Healthcare: The Moderating Role of Frailty
D.H. Lee, H.J. Yoon, J.W. Lee, H.R. Shin, Y.S. Kim

Effects of a Gerontechnology-Based Life-Planning Simulation: User Perceptions, Affective Responses, and Usage Intentions
C.H. Choi, Y.J. Choi, W.J. Shim

SUNDAY, MARCH 29TH, 2026

10:00AM - 10:30AM | REFRESHMENT BREAK

10:30AM - 12:00PM | PARALLEL SESSIONS

▷ ORAL PRESENTATION SESSION | Room 1400, Segal Centre

Application Fields & Innovative Technologies for an Aging Society: Clinical Health

Chaired by: T. Dunn

Smart Health Monitoring Chair: An IoT-Based Multi-Sensor System for Passive Vital Sign Monitoring
B. Katleriwala, A. Aighobahi, P. Jackson

Speaking Of Value: A Mixed-Methods Evaluation of Speech Driven Reporting in Long-Term Care
I.L.G. Dantuma, T.R.C. van Hoesel, P. Rood, H.P. Buimer, H.H. Nap

Mobile Applications for Diabetes Self-Management: A Scoping Review of Functionalities, Usability, and Accessibility in Apps Available in Portuguese-Speaking Contexts
K.M.S. Santos, M.S.G. Lima, M.C.S.C. Nanque, G.B. Santos, E. Fittipaldi, J. Fernandes

A Serious Game of Swallowing Exercises for Post-Stroke Dysphagia Patient
M.J. Su, B.J. Yang, H.L. Hsieh, W.Y. Lee, M.L. Dai, W.Y. Chen, Y.H. Su

▷ ORAL PRESENTATION SESSION | Room 1600, Canfor Policy Room

Application Fields & Innovative Technologies for an Aging Society: AI & Machine Learning

Chaired by: R. McAloney

The Mediating Roles of Control Beliefs in Older Adults' Wearable Device Usage Behavior
L-R. Chen, Y-C. Yu, M-C. Tsai, C-W. Chang, S-H. Chang

Deep Learning Methods for Diagnosing Mild Cognitive Impairment in the Elderly Using Multimodal Data
Y. Liu, Y. Ai, R. Wang, Z. Wan

Conversational RAG System Using Practical Dementia Care Knowledge
T. Nakata, K. Yasuda, M. Nakamura

A comparative study of age-related stereotypes between OpenAI's GPT-40 and DeepSeek's chat model
W. Hong, M. Choi

Digital Signatures of Caregiver Burden: Machine Learning Classification Using Multimodal In-Home Sensor Data
B. Chimehi, J. Larivière-Chartier, B. Wallace, L. Ault, F. Knoefel, J. Kaye, Z. Beattie, J. Steele, L. Anderson, N.Thomas

▷ ORAL PRESENTATION SESSION | Room 1315, Scotia Bank Lecture Hall

Application Fields & Innovative Technologies for an Aging Society: Barriers & Preferences

Chaired by: C. Genge

Barriers and Facilitators to Technology Adoption for Social Connection in Long-Term Care
S. Somani, E. Rossnagel, S. Freeman

Current Landscape of AgeTech Implementation and Adoption in the Canadian Healthcare System: A Scoping Review
B. Ayaz, K. Bavaro, H.T. Mohammed, C. Genge, S. Bestavros, R. Fraser, I. Abejirinde

Identifying Key Implementation Factors Regarding the Introduction of New Technologies in Older Adult Care Settings
S.L. Hitzig, S. Mirbaha, N. Puddicombe, A. Winston, K.M. Kokorelias, C.L. Sheppard.

An umbrella review factors determining digital technology acceptance among older people
K. Chen, S.H Han, F. Huang, Z.Y.F Bai

SUNDAY, MARCH 29TH, 2026

10:30AM - 12:00PM | PARALLEL SESSIONS CONT'D

▷ ORAL PRESENTATION SESSION | Room 1325, Axa Pacific Conference Room

Application Fields & Innovative Technologies for an Aging Society: Apps & Digital Solutions

Chaired by: Y-L. Hsu

Empowering Aging Adults Through Voice-Based AI Health Documentation: Design and Evaluation Study
K. Meyer, D. Noll

Prototyping a Personalized Chatbot Serving as a Game Facilitator for Older Adults
Y.C. Chiang, B.Q. Zhang, J.M. Cheng, Y-L. Hsu

Evaluating the effectiveness of remote digital tutoring through Illuminated Devices
K.S. Steelman, T. Perr, T. Garnett, B. Bettin, L.C. Ureel, C. Wallace

Older Users' Satisfaction with a Public Digital Health Appointment App
F.B. Fonseca, T.M. Lobo, L. Hung, M.L.L.R. Okimoto, M.F. Catapan

▷ ORAL PRESENTATION SESSION | Room 1520, Barrick Gold Conference Room

Dementia & Technology

Chaired by: W. Sun

LLM-enhanced Health Monitoring and Intervention for People with Dementia : Data Extraction and Conversation Design
D.S. Kim, Y. Won, I. Jung

Using Technology-Enabled AVOID Frailty Model of Care to Promote Brain Health
W. Sun, A. Quevedo, P. Sarah, E. Sara, R. Inguino

Deploying location tracking systems in dementia care: Lessons learned from a failed implementation
A. Grigorovich, K. Harvey, AM. Levy, L. Haslam-Larmer, L. C. Shum, A. Iaboni, J. McMurray

Beyond traditional support: Co-creating an application addressing resilience of informal caregivers of persons with dementia
S. Ipakchian Askari, N.E. Stolwijk, M.J. Francke, J.M. Verlinden, J. Morozowska, W.J. Stevens, M. Garschall, B. Wais-Zechmann, K.M. Piskorska, M.I. Zegwaard, A. Gaasterland, I. Bierhoff, H.H. Nap

▷ ORAL PRESENTATION SESSION | Room 1530, Canadian Pacific Lecture Room

Application Fields & Innovative Technologies for an Aging Society: Virtual Care

Chaired by: H. Wang

Virtual Assistants and the Care of Loneliness in Primary Health Care: From "Cultural" Design to Professionals' Representations
L. Mariano Juárez, J. Luengo Polo, V.A. Muñoz Ortega, E. Naharro Gil, B. Rivero Jiménez, D. Conde Caballero

Understanding the challenges, barriers, and opportunities of telehealth applications to support older adults' access to health services
G. Mois, A. M. Kiselica, H. Hubbard, E. Tuggey, J. M. Beer

Need-responsive telecare for older adults through user-centric development
P. Karhinen, P. Sanerma, T. Mikkola, J. Koistinen, M. Komulainen, S. Saikko

Context-Aware BLE Indoor Positioning for Room-Level Mobility Monitoring
H. Wang, Q. Fang

12:00PM - 1:00PM

CLOSING CEREMONY
Presentation of CIHR-IA Trainee Travel & Poster Awards
Preview of ISG Jubilee Conference 2027 & ISG2028

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STRATEGIC SPONSORS

AGE-WELL (www.agewell-nce.ca) is Canada's technology and aging network. We have mobilized a vast community of researchers, partner organizations, older adults, caregivers, and future leaders to accelerate the delivery of technology-based solutions that make a meaningful difference in the lives of Canadians. AGE-WELL is driving impact across a trilogy of pillars – research, capacity building and adoption. Together, these pillars support a strong innovation pipeline from foundational research to technology adoption.

Located in the spectacular landscape of northern British Columbia, the **University of Northern British Columbia (www.unbc.ca)** is one of Canada's best small universities. UNBC provides outstanding undergraduate and graduate learning opportunities that explore cultures, health, economies, sciences, and the environment. As one of B.C.'s research-intensive universities, we bring the excitement of new knowledge to our students, and the outcomes of our teaching and research to the world. UNBC is a university both in and for the North. We are also Canada's Green University™, leading the way to a more sustainable future for all.

The **Philippine Retirement Authority (PRA)** is a government-owned and controlled corporation (GOCC) attached to the Philippine Department of Tourism (PDOT). Established in 1985, its primary mandate is to position the Philippines as a premier global destination for retirees and foreign investors. By promoting a high quality of life, the PRA aims to attract foreign nationals and former Filipinos, encouraging them to make the Philippines their second home. Beyond visa processing, the agency works to integrate retirees into the local community by accrediting retirement facilities, property developers, and healthcare providers, ensuring that every resident has access to world-class service and a secure living environment.

PLATINUM SPONSORS

The **CIHR Institute of Aging's (CIHR-IA)** mandate is to support research, promote healthy aging and address causes, prevention, screening, diagnosis, treatment, support systems, and palliation for a wide range of conditions associated with aging. By championing an inclusive approach to research excellence that considers health across the life course and addresses social and structural determinants of health, CIHR-IA funds evidence-based research that informs public policy, programs and services. IA's mission is to advance training, research and knowledge mobilization to maintain and improve the health and wellbeing of all Canadians as they age. CIHR-IA promotes the inclusion of age, aging and the role of persons with lived and living experiences and their caregivers in the entire research ecosystem.

PLATINUM SPONSORS CONT'D

A founding faculty in 1965, **Simon Fraser University's Faculty of Arts and Social Sciences (FASS)** is a leader in education and research. Home to the Gerontology Research Centre, the Science and Technology for Aging Research Institute, and the Tong Louie Living Lab, FASS is the base for many innovative centres and institutes. Our interdisciplinary expertise in policy, governance, and technology ensures an informed approach to health and well-being; our collaborative approach sparks vibrant and inclusive communities. FASS' flourishing intellectual community leads the way in meaning-making and solving the world's pressing problems.

The Consulate General of the Kingdom of the Netherlands in Vancouver is part of the diplomatic network of the Netherlands in Canada. Our goal is to further strengthen the already close relationship between Canada and the Netherlands, including in the field of healthcare. The Netherlands believes that people should be able to age with dignity, autonomy, and quality of life. Both the Netherlands and Canada face similar challenges related to ageing populations, workforce pressures, and rising care demands. By working together and sharing knowledge, research, and innovation, we can develop smarter, more human-centred solutions for elderly care.

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The **Centre for Technology Adoption for Aging in the North (CTAAN) (www.ctaan.ca)** is a National Innovation Hub that supports aging in northern and rural communities by making technologies more accessible to older adults, caregivers, and health systems. We focus on testing, piloting, implementing, and promoting solutions tailored for northern and rural settings. Through a partnered, community-driven approach, we ensure technologies truly enable, empower, and engage those aging across the North.

SILVER SPONSORS

MindfulGarden Digital Health, Inc. (www.mindfulgarden.com) Antipsychotic drugs and physical restraints should not be tools of first reach when addressing agitated behaviours in the hospitalized elderly. MindfulGarden is the first clinically validated affective biofeedback platform that harnesses biometrics to influence bio-state, using interactive visualizations and soundscapes to 'calm,' with the goal of sending each patient home, brain healthy. Health Canada approved, with a foundational study published in the NATURE npj journal in 2024, MindfulGarden is currently in hospitals in Canada and Asia.

SILVER SPONSORS CONT'D

The **ANGEL Lab (Alibaba–NTU Global e-Sustainability CorpLab)** at Nanyang Technological University focuses on sustainable AI, AI for sustainability, and human longevity. The lab conducts interdisciplinary research spanning AI systems, human–AI interaction, and data-driven behavioral design, with a strong emphasis on real-world deployment and translational impact. Through close collaboration with industry and public stakeholders, ANGEL Lab develops scalable solutions for preventive healthcare, cognitive health, active ageing, and sustainable lifestyle interventions.

The **Rehabilitation Engineering Research Center on Technologies to Support Aging among People with Long-Term Disabilities (TechSAge RERC) (www.TechSAgeRERC.org)** is a collaborative grant center established in partnership with the University of Illinois Urbana-Champaign, the Georgia Institute of Technology, Georgia State University, and Person in Design. Founded in 2013, TechSAge features multidisciplinary research, development, and training projects that are dedicated to understanding the needs of, and developing supportive technologies for, people aging with long-term vision, hearing, and mobility disabilities.

A pioneer in scholarly, open access publishing, **MDPI (www.mdpi.com)** has supported academic communities since 1996. Based in Basel, Switzerland, MDPI has the mission to foster open scientific exchange in all forms, across all disciplines. Our 501 diverse and open access journals, including 492 peer-reviewed journals and 9 conference journals, are supported by more than 295,000 academic experts who share our mission, values, and commitment to providing high-quality service for our authors. We serve scholars from around the world to ensure the latest research is freely available and all content is distributed under a Creative Commons Attribution License (CC BY).

BRONZE SPONSORS

The **ISG Korean Chapter** presents the **Aging Sage Life Simulation (www.agingsage.org)**, a gerontechnology-based program. This is an interactive, one-hour simulation guided by a gerontechnology planner. Using a life canvas that allows participants to view their life at a glance, they map their aging process, reflect on upcoming life transitions, and explore life goals and small personal aspirations. Through this process, participants consider how science, technology, and living environments may support these goals and envision possible futures. The program offers a meaningful opportunity for active and self-directed later-life planning.

SUPPORTERS

Michael Smith Health Research BC (www.healthresearchbc.ca) Funded by our provincial government, Health Research BC supports a health research system that improves health and health care and strengthens the economy. We fund people and research, and we partner on shared opportunities. Our programs build research careers, our investments advance priority research, and our expertise accelerates the use of research evidence.

EXHIBITORS

The **Canadian Association on Gerontology** is Canada's premier multidisciplinary association in the field of aging. Members benefit from discounted conference fees, a free subscription to the Canadian Journal on Aging, eligibility for awards and prizes, and much more. We have an active Student Connection and special rates for students and those 65+! Learn about membership and our CAG2026 conference: **https://cagacg.ca/**

It is a pleasure to invite you to attend the **23rd IAGG World Congress of Gerontology and Geriatrics** in Amsterdam, July 5-8, 2026 on behalf of the International Association of Gerontology and Geriatrics (IAGG), the Dutch Society for Gerontology (NVG-KNOWS), the Netherlands Clinical Geriatrics Society (NVKG), and the Dutch professional organisation of Nurse Practitioners in Geriatrics and Gerontology (V&VN-GG). Visit **www.iagg2026.org**

The Research Institute for Smart Ageing (RISA) at PolyU (www.polyu.edu.hk/risa/) was established in 2021 with over 30 founding members from 15 departments. Led by Professor Yongping Zheng, RISA promotes interdisciplinary research in smart health, intelligence, environment, society, and gerontechnology. Its initiatives include community-based research and the RISA Ageing Data Registry System (ADRES). Together with the Jockey Club Smart Ageing Hub, RISA addresses Hong Kong's ageing population challenges through innovation and collaboration.

The **SFU-BCIT Dr. Tong Louie Living Lab** was opened in 1995 thanks to the generous support of an endowment from Dr. Tong Louie. SFU (Gerontology) and BCIT (Applied Research) have worked in collaboration with a mission to enhance independent living and the quality of life among older adults through person-environment fit and the development and evaluation of environmental and technological innovations.

EXHIBITORS CONT'D

Niagara College's Healthy Aging and Wellness Innovation Centre (HAWIC) (www.ncinnovation.ca/innovation-centres/healthy-aging-and-wellness) aims to improve the quality of life of older adults by conducting applied research, shifting perspectives, and sharing knowledge related to 5 pillars: Technology, Aging-in-Place, Care and Services, Community, and Education and Knowledge Mobilization. The research team at HAWIC investigates and explores innovative solutions for tackling the challenges faced by our aging population, while working alongside our students and academic programs, industry partners, and community organizations.

We're a global pioneer in gerontology education and research. The **USC Leonard Davis (www.gero.usc.edu/)** is the first and most comprehensive professional school of gerontology in the United States, with a long history of innovation in the field. Since 1975, students, faculty and colleagues from around the globe have come here to explore and shape the future of aging. Our alumni make scientific breakthroughs, advocate for those who often go unheard, and lead dynamic companies, among other exciting careers.

The **Special Resident Retiree's Visa (SRRV)** is a highly competitive, non-immigrant, multiple-entry visa designed to offer permanent residency to eligible foreign nationals. Known for its flexibility, the SRRV allows holders to reside in the Philippines indefinitely with multiple-entry privileges, exempting them from the annual reports and exit clearances typically required of other foreign residents. One of its most attractive features is the "Classic" scheme, which allows the required visa deposit to be converted into active investments, such as the purchase of a condominium unit or long-term property leases. This makes the SRRV not just a residency permit, but a strategic tool for foreigners looking to invest in the country's growing real estate market.

The 16th ISG World Conference

Gerontechnology in Real-World Action



October 2-4, 2028
TAIPEI, TAIWAN

TAIPEI
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ISG Taiwan Chapter, Taiwan Society for Gerontechnology

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30 years of ISG - Welcome to the Jubilee Conference

Future Aging – The Art of Gerontechnology

13.-14.5.2027 Metropolia UAS, Myllypuro Campus
Helsinki, Finland

Save the date and follow updates:
www.metropolia.fi/isgjubilee2027

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Program at a Glance

Thursday, March 26		Friday, March 27			Saturday, March 28		Sunday, March 29	
8:30-17:00 Network Meetings	8:30-17:00 Master Class Part 1	7:30-18:00	Registration		7:30-18:00	Registration	7:30-18:00	Registration
8:30-12:30 Site Visit #1		8:30-10:00	Keynote Address		8:30-10:00	Keynote Address	8:30-10:00	Parallel Sessions
		10:00-10:30	Coffee Break		10:00-10:30	Coffee Break	10:00-10:30	Coffee Break
		10:30-12:00	Parallel Sessions		10:30-12:00	Parallel Sessions	10:30-12:00	Parallel Sessions
13:30-17:00 Site Visit #2		12:00-13:00	Lunch (Editorial Board Meeting)		12:00-13:00	Lunch	12:00-13:00	Closing Ceremony
		13:00-14:30	Parallel Sessions		13:00-14:30	Parallel Sessions	9:00-16:30 Master Class Part 2	
		14:30-15:00	Coffee Break		14:30-15:00	Coffee Break		
16:00-19:00 Registration		15:00-16:30	Keynote Address		15:00-16:30	Keynote Address	8:30-12:30 Site Visit #3	
		16:30-17:30	Parallel Sessions	Parallel Sessions	16:30-17:30	General Assembly		
18:00-19:00 ISG Chapter Meetings		17:30-18:30	Parallel Sessions		17:30-18:30	Parallel Sessions	Sightseeing Tours	
19:00-22:00 Opening Ceremony, Keynote Address, & Cocktail Reception		19:00-22:00			19:00-22:00	Gala Dinner	Cities Victoria Whistler Rocky Mountains Alaska	

Blue Boxes show optional events