



ISG's 12th World Conference of Gerontechnology

October 6-9, 2020

Hosted in Trondheim, Norway





International Society for Gerontechnology

Designing technology and environment for independent living and social participation of older persons in good health, comfort and safety

ISG2020 is an extraordinary conference at an extraordinary time in our history. Never in our modern era has humanity faced a pandemic lethal to older adults around the world. Yet also never at the same time has there been so many well-developed ICT technologies which could be brought to the fore to meet the challenges of delivering healthcare, emotional and mental support and basic services including transportation to our elder citizens. These ICT technologies, developed by the world's leading Gerontechnology researchers, many of whom are our members, have matured over the past 25 years into products and services designed to address the specific needs of the most vulnerable of our planet's citizens.

The opposing force of Gerontechnology has surely saved many lives during this dreadful scourge. In a very real sense, the pandemic has done more to accelerate the acceptance of Gerontechnology than all of the well-reasoned arguments made by policymakers, politicians and researchers. Nowadays families think nothing about using products such as Zoom and Skype and FaceTime to communicate with their isolated elderly family members and regularly use these tools to hold face-to-face family meetings. AI companions such as Alexa and Google Home allow simplified access to ordering groceries and products for delivery safely to our elder citizens' doorsteps. It is truly an age of marvels in an age of great challenges.

ISG 2020's transition to a virtual conference, accomplished in just five months, is nothing short of remarkable. It represents an immense amount of work by Espen Aspnes and members of his Organizing Committee, the fine staff at SINTEF, NTNU and Atlantic MICE TIBE, the conference's PCO. As a virtual conference it offers its own opportunities and challenges, allowing worldwide access to a world that cries out for our wisdom and knowledge. It's appearance at this point in history is extremely timely and Gerontechnology is urgently needed.

On a personal note, I deeply regret being unable to meet you in person in Trondheim, a city of great beauty and potential, to walk its beautiful streets and sample its restaurants' exquisite fare. I can but hold its fair visage in mind as I dream of better days ahead as the pandemic is conquered and once again, we can meet and heartily greet each other face to face as colleagues.

My very best wishes for your enjoyment of ISG 2020 and for your continued good health!

A handwritten signature in dark ink, appearing to read 'William D. Kearns', is written in a cursive style.

William D. Kearns, PhD

President, International Society for Gerontechnology

Trondheim, Norway



Tuesday, October 6, 2020

15:00 - 16:45 Opening of ISG 2020

15:00 - 15:30 Opening ceremony

15:45 - 16:15 Keynote Presentation

Chapal Khasnabis, World Health Organization
*Technological and social innovations in products
and services for older people*



16:15 - 16:45 Keynote Presentation

Aad Koster, The European Ageing Network (EAN)
EAN and the EAN report "Long-Term Care 2030"



16:45 - 17:00 Break

17:00 - 18:00 ISG General assembly

Wednesday, October 7, 2020

11:45 - 12:00 Introduction of day

12:00 - 13:00 Oral sessions 1-6

O.1 Technology for health

O.1.1 *Supporting caring activities among older people to decrease loneliness: a closer look at the Give&Take peer-to-peer platform*, Elin Siira, Gothenburg University, Sweden

O.1.2 *An Intersectional Place Perspective for AgingTech Research, Policy and Practice*, Mei Fang, University of Dundee, United Kingdom



- O.1.3 ***An Evidence-Based and Culturally Tailored Online Video Course for Chinese Dementia Caregivers***, Hongtu Chen, Environmental and Health Group, United States of America
- O.1.4 ***Digital technology for personalized multisensory stimulation to promote communication and engagement and support implementation of person centered in dementia care***, Nick Hird, Aikomi, Japan
- O.1.5 ***Multisensory stimulation in treatment of older people living with dementia***, Carla Castro, University of Sao Paulo, Brazil
- O.1.6 ***Detecting Apnea in Community Dwelling Older Adults***, Frank Knoefel, Elisabeth-Bruyère Hospital, Canada

O.2 Housing and Daily Activities

- O.2.1 ***Charting the Innovation landscape for Age-friendly housing in Europe***, Frans Sengers, Utrecht University, The Netherlands
- O.2.2 ***Sharing Neighbourhoods –Barriers and drivers to share spaces and the role of technology***, Karin Høyland, SINTEF, Norway
- O.2.3 ***“Smart furniture ‘listening’ to your body!” – Designing an assistive ‘hub’ to support aging independence and mobility***, Danying Yang, Coventry University, United Kingdom
- O.2.4 ***An internet of things patient care system on inpatient fall prevention and the care quality***, Dorothy Bai, Yuan Ze University, Taiwan
- O.2.5 ***Practicing care through social alarm systems***, Randi Stokke, NTNU in Gjøvik. Centre For Care Research, Norway

O.3 Personal Mobility

- O.3.1 ***Co-creating a mobility app with and for older adults to go out***, Fan Li, Eindhoven University of Technology, the Netherlands
- O.3.2 ***A mobile app for unlicensed support personnel who care for older adults with dementia***, Lili Liu, University of Alberta, Canada
- O.3.3 ***User Experiences Following 30 Days of Self-Administered Fall Risk Assessment via a Mobile Application***, Shannon Mejia, University of Illinois, United States of America
- O.3.4 ***SmartDrive: A self-assessment app to steer the conversation about safe driving for older adults***, Surya Neti, University of Waterloo, Canada
- O.3.5 ***Implementing Mind Monitoring Service for Elderly People at Home Using LINE Chatbot***, Chisaki Miura, Kobe University, Japan
- O.3.6 ***Value-Based eHealth: Lifestyle Monitoring***, Henk Herman Nap, Vilans, The Netherlands



O.4 Communication and Governance

- O.4.1 ***User expectations and experiences during implementation of new technology in healthcare services***, Dag Waaler, Norwegian University of Science and Technology, Norway
- O.4.2 ***Four Year Trends in IT Sophistication and Quality in United States Nursing Homes***, Gregory Alexander, University of Missouri, United States of America
- O.4.3 ***Designing Video Chat for Social Engagement in Older Adults With, and Without Mild Cognitive Impairment***, Qiong Nie, University of Illinois Urbana Champaign, United States of America
- O.4.4 ***Leveraging Over-the-Counter Hearing Technology & Older Adult Peers Educators to Increase Access: Lessons from HEARS***, Carrie Nieman, Johns Hopkins University School of Medicine, United States of America

O.5 Robotics

- O.5.1 ***Care robots in society: Knowledge and orientation needs***, Satu Pekkarinen, Lappeenranta-Lahti University of Technology, Finland
- O.5.2 ***The need for care robot orientation in elder care services***, Rose-Marie Johansson Pajala, Mälardalen University, Sweden
- O.5.3 ***Older people's acceptance of robot-assisted Activities of daily living***, Tianyang Huang, National Taipei University of Technology, Taiwan
- O.5.4 ***One-year experience on care robot development for people with significant disabilities and elderly in Korea***, Won-Kyung Song, National Rehabilitation Center, Republic of Korea
- O.5.5 ***A context-aware social robot to improve the quality of life of people with dementia***, Sara Casaccia, Università politecnica delle Marche, Italy
- O.5.6 ***Experiences from implementation and long-term use of 'Zora' robot in elderly care services***, Satu Pekkarinen, Lappeenranta-Lahti University of Technology, Finland

O.6 Technology & health

- O.6.1 ***A theoretical grounding for AgingTech research: the inclusion of older adults as experiential stakeholders***, Judith Sixsmith, AGE-WELL, Canada
- O.6.2 ***Digital inclusion of unpaid carers of older people: a research agenda***, Jacqueline Damant, London School of Economics and Political Science, United Kingdom
- O.6.3 ***Enabling factors for facilitating co-creation with older adults: A literature review***, Joakim Klemets, SINTEF, Norway
- O.6.4 ***Use intention of digital technology in older adults by age and gender***, Alicia Murciano, University of Salamanca, Spain



- O.6.5 **Managing decisions within health technology organizations - Descriptive qualitative study**, Katarina Baudin, Mälardalen University, Sweden
- O.6.6 **How do Socio-Economic Factors Influence the Intention to Use Eldercare-Technology in South Korea**, Jeungkun Kim, Kangnam University, Republic of Korea
- O.6.7 **The study on the usage of on-line matching of care service and the users' attitude on digital recruitment process**, Dongseon Kim, Joicare LTD., Republic of Korea

13:00 – 14:10 Exhibition

Visit our exhibitors using the OnAIR platform

13:00 – 13:05 Break

13:05 – 13:50 Poster session 1

P.1.1 **A systematic review of e-Health solutions for aging in place with MCI or dementia**

Samantha Dequanter¹, Ronald Buyl², Maaïke Fobelets², Marie-Pierre Gagnon³, Ellen Gorus⁴, Mame-Awa Ndiaye⁵

¹Vrije Universiteit Brussel (VUB), ²BISI Research Group, ³Université Laval, ⁴FRIA Research Group, ⁵CERSSPL-UL

P.1.2 **What is self-sovereign identity, and can it be applied to persons living with dementia at risk for going missing?**

Noelannah Neubauer¹, Lili Liu²

¹University of Alberta, ²University of Waterloo

P.1.3 **Cognitive aging level influencing purchasing of Gerontechnology**

WooJoung Shim

Wheel Line Co., Ltd.

P.1.4 **Development of a Group Conversation Support Robot Bono-05 for Cognitive Health of Older Adults**

Mihoko Otake-Matsuura¹, Seiki Tokunaga¹

¹RIKEN

P.1.5 **Developing a Smart System Encouraging Self-Aid and Mutual Voluntary Aid for Elderly People at Home**

Masahide Nakamura

Kobe University

P.1.6 **Developing a Caregiver Feedback Response System using a Home-based Sensor Platform**

Laura Ault¹, Allison Kachala¹, Frank Knoefel¹, Andrew Frank¹, Bruce Wallace, Rafik Goubran², Jeffrey Kaye³, Chantal Trudel², Neil Thomas^{1,4}

¹Bruyere Research Institute, ²Carleton University
³Oregon Health and Science University, ⁴University of Ottawa

P.1.7 **Prioritization of novel technologies by people with disabilities and their caregivers**

Ben Mortenson¹, Oladele Atoyebi¹, Claudine Auger², Maude Beaudoin³, Louise Demers², Emilie Lacroix³, Michelle Plante⁴, Francois Routhier³

¹University of British Columbia, ²Université de Montréal, ³University of Laval, ⁴CRIUGM

P.1.8 **Technology support for enhancing daily resilience and safe ambulation of very old people**

Claudia Giacomozzi

Italian National Institute of Health



P.1.9 Implementing gerontechnology in Norwegian municipalities

Roger Søråa¹, Erlend Kleiven-Jørgensen¹

¹Norwegian university of science and technology

P.1.10 The Value of Linguistic Redundancy in Human-Robot Communication: A Comparison of Younger and Older Adults

Saryazdi Raheleh¹, Craig Chambers¹, Raheleh Saryazdi¹

¹University of Toronto

P.1.11 Voice Assistant for ageing people: reminding drugs prescriptions without Internet connection

Jose Garcia-Alonso¹, Javier Berrocal¹, Jose Garcia-Alonso¹, Manuel Jesús-Azabal¹, Juan M. Murillo¹

¹University of Extremadura

P.1.12 Matters of care when introducing technology: the case of remote monitoring at night by camera

Lucia Crevani¹, Silvia Bruzzone¹, Michela Cozza¹

¹Mälardalen University

P.1.13 Vital Sign and Well-being Assessment Using Bed Based Sensing

Bruce Wallace¹, Laura Ault², J. Larivière-Chartier, Rafik Goubran¹, Frank Knoefel²

¹Carleton University, ²Bruyere Research Institute

P.1.14 Can MaaS change elder persons' lifestyle, behavior and consciousness?

Yusuke Kanda

National Institute of Technology, Kure College

P.1.15 Alberta Rating Index for Apps (ARIA): Helping older adults find acceptable mobile health apps

Peyman Azad Khaneghah¹, Martin Ferguson-Pell¹, Lili Liu², Mary Roduta Roberts¹, Eleni Stroulia¹

¹University of Alberta, ²University of Waterloo

P.1.16 Methods to assess needs for welfare technology among older persons. A survey of welfare technology providers in Sweden

Viktoria Zander

Mälardalen University

13:50 - 14:10 Break

14:10 - 15:15 Symposia 1-4

S.1 Robotizing care for older people what should be automatized when robots enter home care?

Convener: **Britt Östlund**, Royal Institute of Technology, Sweden

Participants

Moon Choi, Korea Advanced Institute of Science and Technology, South Korea

Anna Spånt Enbuske, Kommunal, Sweden

Sanna Kuoppamäki, Royal Institute of Technology, Sweden

Björn Fischer, Royal Institute of Technology, Sweden

S.2 The technology acceptance model in older age: new directions and perspectives

Convener: **Mario Jokisch**, Heidelberg University, Germany

Participants

Louisa Scheling, Heidelberg University, Germany

Friedrich Wolf, Goethe University, Germany

Anna Schlomann, Heidelberg University, Germany

Thorsten Kolling, discussant, Goethe University, Germany

S.3 *Appropriate Level Technologies in Aging: Economic, Public Policy, Human Factors, and Psycho-Social Perspectives*

Convener: **Sunkyo Kwon**, Hanyang University, South Korea

Participants

James L. Fozard, University of South Florida, United States

Gloria M. Gutman, Simon Fraser University, Canada

William D. Kearns, University of South Florida, United States

Christophe Kunze, Furtwangen University, Germany

Yeong-Ran Park, Kangnam University, South Korea

S.4 *Sociological perspectives on Gerontechnology. Theoretical and empirical reflections on current technology development processes*

Convener: **Harald Künemund**, University of Vechta, Germany

Cordula Endter, German Centre of Gerontology, Germany

Participants

Sebastian Merkel, Institute for Work and Technology, Germany

Sibylle Meyer, discussant, SIBIS institute, Germany

15:15 - 15:30 Break

15:30 - 16:15 Keynote Presentation

Jennifer Boger, Intelligent Technologies for Wellness and Independent Living lab. and University of Waterloo

I am more than my vital signs! - Leveraging technology to support meaningful aging



16:15 - 16:20 Break

16:20 - 17:20 Symposia 5-8

S.5 *The Center for Research and Education on Aging and Technology Enhancement (CREATE): Twenty Years of Advancing Technology to Support Older Adults*

Convener: **Wendy Rogers**, University of Illinois Urbana-Champaign, United States

Participants

Neil Charness, Florida State University, United States



Sara J. Czaja, Weill Cornell Medicine, United States

Walter R. Boot, Florida State University, United States

Helianthe Kort, University of Applied Sciences Utrecht and Eindhoven University of Technology, The Netherlands

S.6 *Robots influencing emotional wellbeing*

Convener: **Barbara Klein**, Frankfurt University of Applied Sciences, Germany

Participants

Yayoi Saito, NiCT and Osaka University, JAPAN

Keiko Ishihara, Hiroshima International University, Japan

Ryuji Yamazaki, Osaka University, Japan

S.7 *The voice of the user revisited*

Convener: **Evelin Wouters**, Tilburg University and Fontys University of Applied Sciences, The Netherlands

Participants

Ittay Mannheim, Fontys University of Applied Sciences, The Netherlands

Yvonne Schikhof, Rotterdam University of Applied Sciences, The Netherlands

Manon Peeters-Schaap, Fontys University of Applied Sciences, The Netherlands

Rens Brankaert, University of Technology Eindhoven and Fontys University of Applied Sciences, The Netherlands

S.8 *Aged Care Information Technology Roadmaps and Research*

Convener: **Gregory Alexander**, University of Missouri Sinclair School of Nursing, United States

Participants

Anne Moen, University of Oslo, Norway

Thursday, October 8, 2020

11:45 - 12:00 Introduction of day

12:00 - 12:45 Oral session 7-12

O.7 Technological needs and barriers

O.7.1 *Understanding Healthcare Challenges and Needs for Older Adults with and without Mobility and Sensory Disabilities*, Qiong Nie, University of Illinois Urbana Champaign, United States of America

O.7.2 *Unmet needs and barriers to use of technology and potential novel solutions for family caregivers*, Ben Mortenson, University of British Columbia, Canada

O.7.3 *Adopting an ethical mindset while developing and using 'smart' gerontechnology in long-term care*, Henk Herman Nap, Vilans, Netherlands

O.7.4 *Life under COVID-19 – Opportunities and challenges for AgeTech*, Andrew Sixsmith, Simon Fraser University, Canada



O.8 Experienced Health and (Self) Respect

- O.8.1 ***Older people seeking health information before seeing a doctor***, Anthea Tinker, King's College London, United Kingdom
- O.8.2 ***How do people living with subjective cognitive impairments want to get support in resilience?*** Henk Herman Nap, Vilans, The Netherlands
- O.8.3 ***Digital Health Screening Tool for Identification of Elder Mistreatment***, Fuad Abujarad, Yale University School of Medicine, United States of America
- O.8.4 ***Examining Quality of Life Enhancing Affordances of Information and Communication Technology Use Among Older Adults in the United States***, Travis Kadylak, Michigan State University, United States of America
- O.8.5 ***Psychological outcomes of telecare use in informal care - a qualitative intervention study in Slovenia***, Simona Hvalič-Touzery, University of Ljubljana, Faculty of Social Sciences, Slovenia

O.9 Sensors and Monitoring

- O.9.1 ***Using machine learning for in-bed posture classification, sleep and daily pattern recognition on a motion-sensing mattress***, Yeh-Liang Hsu, Yuan Ze University, Taiwan
- O.9.2 ***Re-thinking community mobility for older adults amid a revolution in automotive technology***, Tara Kajaks, McMaster University, Canada
- O.9.3 ***Locomotion analysis in ecological contexts by an automatically guided vehicle for clinical and rehabilitation evaluation: preliminary results***, William Bégin, Université du Québec à Chicoutimi, Canada
- O.9.4 ***Proof of concept: The use of time resolved bioimpedance to measure hydration state***, Ellen Jaatun, Mode sensors, Norway

O.10 Gait and falls

- O.10.1 ***The diffusion of gerontechnology for fall prevention, fall detection, and fall monitoring model testing***, Gabriela Pereira, Oklahoma State University, United States of America
- O.10.2 ***Who will fall in the next three months? Screening fall risk in healthy older persons***, Paula Castro, Federal University of Sao Carlos, Brazil
- O.10.3 ***Moving safely, living independently: The co-creation of FreeWalker***, Henk Herman Nap, Vilans, The Netherlands
- O.10.4 ***A framework to describe the levels of risk associated with dementia-related wandering***, Noelannah Neubauer, University of Alberta, Canada



O.11 Methods and Models

- O.11.1 ***A participatory spiral model for gerontechnology development***, Coco Chen, HKU, Hong Kong
- O.11.2 ***User Acceptance and Evaluation of Ambient Assisted Living Systems***, Jelena Bleja, Dortmund University of Applied Sciences and Arts, Germany
- O.11.3 ***Analyzing the barriers of technology acceptance model of older adults during the COVID-19 Pandemic***, Yasemin Afacan, Bilkent University, Turkey
- O.11.4 ***The i-evAALution RCT: rationale, methods and first results of the pre-tests***, Ines Simbrig, Eurac Research, Italy
- O.11.5 ***Acceptability and usability of the ICT and AI-based care services for older people living alone in Korea***, Yeong Ran Park, Kangnam University, Republic of Korea

O.12 Innovation

- O.12.1 ***Quantifying movement variability with fractals: From fall prediction to pharmaceutical evaluations***, James Fozard & William Kearns, University of South Florida, United States of America
- O.12.2 ***Feasibility study of a digital screen-based calming device on disruptive BPSD in shared areas of a LTC facility***, Gloria Gutman, Simon Fraser U Gerontology Research Centre, Canada
- O.12.3 ***Technology usage among elderly with self-reported hearing disability: results from In-veCe.Ab.***, Mauro Colombo, ASP Golgi Redaelli, Italy
- O.12.4 ***MCI@Work: Developing a customizable digital tool to support people with MCI and early-onset dementia with task-management in the workplace***, Arlene Astell, University of Toronto, Canada
- O.12.5 ***Development of a Dialogue Robot Bono-06 for Cognitive Training of Older Adults***, Seiki Tokunaga, RIKEN, Japan

12:45 - 14:00 Exhibition

12:45 - 12:50 Break

12:50 - 13:35 Poster Group 2

P.2.1 ***Considerations for Designing Domestic Robots for Older Adults***
Travis Kadylak¹, Megan Bayles¹, Dann Rhee¹,
Wendy Rogers¹

¹University of Illinois Urbana-Champaign

P.2.2 ***Giving voice to human-robot intersubjectivity in loneliness contexts***

Fernando Montalvo¹, Giovanna Alves², Sean Hinkle¹, Daniel McConnell¹, Eva Parkhurst¹,
Janan Smither¹, Gabrielle Vasquez¹

¹University of Central Florida, ²John Jay College of Criminal Justice

P.2.3 ***Digital training as medicine***
Mariann Sandsund¹, Even Andre Fiskvik², Jan Helgerud², Jan Hoff², Knut Løkke²



¹SINTEF Norway, ²Myworkout

P.2.4 Ager Nation Proposed App

Michael Pessman

P.2.5 A rehabilitation program with patient-personalized exergames to address fear and risks of falling in vulnerable older adults of a geriatric hospital: A feasibility study

Nolwenn Lapierre¹, Joël Belmin¹, Joël Chevrier², Manuella Igout¹, Nathavy Um Din¹

¹Hôpital Charles Foix, ²Centre de Recherche Interdisciplinaire

P.2.6 Can a Group Exergaming Intervention Impact Balance, Movement Confidence, and Cognitive Function Among People with Cognitive Impairment?

Erica Dove¹, Arlene Astell², Rosalie Wang¹, Karl Zabjek²

¹Toronto Rehab, ²University of Toronto

P.2.7 Aging in place: Perspectives across time and disciplines

Widya A. Ramadhani¹, Maurita Harris¹, Wendy Rogers¹

¹University of Illinois at Urbana Champaign

P.2.8 Advancing Reminiscence Therapy through Virtual Reality Application to Promote Social Connectedness of Persons with Dementia

Winnie Sun¹, Sheri Hornsburgh², Manon Lemonde¹, Julie Earle², Alvaro Quevedo¹, Ramiro Liscano¹, Bill Kapralos¹, Akira Tokuhiro¹, Emma Bartfay¹, Rabia Akhter¹, D. Wilson

¹Ontario Tech University, ²Ontario Shores Centre for Mental Health Sciences

P.2.9 Interactive Doll Training System for Elderlies with Dementia

Cheung James¹, Mak Alex¹, Tam Eric¹, Law Tess¹, Chan Tim¹, Zheng Yongping¹

¹The Hong Kong Polytechnic University

P.2.10 Strategies for persons living with dementia at risk of going missing: Applying the Goldilocks Principle

Noelannah Neubauer¹, Christine Daum¹, Lili Liu²

¹University of Alberta, ²University of Waterloo

P.2.11 MCI@work: The role of technology in work and everyday life as experienced by people with MCI or early stage dementia

Arlene Astell¹, Jen Boger², Mervi Issakeinen³, Anna Mäki-Petäjä-Leinonen³, Ann-Charlotte Nedlund⁴, Louise Nygård⁵, Charlotta Ryd⁵, Karan Shastri²

¹University of Toronto, ²University of Waterloo,

³University of Eastern Finland, ⁴Linköping University, ⁵Karolinska Institute

P.2.12 Contextualizing smart home technologies with augmented reality tools to facilitate aging in place

Laura Levy¹, Ben Thompson¹, Maribeth Gandy¹

¹Georgia Institute of Technology

P.2.13 Assessment of Time in Bed and Overnight Bed Exits using and Bed Based Sensing

Bruce Wallace¹, Laura Ault², J. Larivière-Chartier, Rafik Goubran¹, Frank Knoefel²

¹Carleton University, ²Bruyere Research Institute

P.2.14 Enhancement of the mobility and social connectedness in older people with a chronic disorder by using an activity tracker and social interactions gatherings

Chantal Huisman¹, Helianthe Kort¹, Sigrid Vorrink²



¹University of Applied Sciences Utrecht, ²OLVG

P.2.15 *The probe on the Intention of Use for elders of Health Improvement System*

Kenneth Wang¹, Houn-Gee Chen²

¹Lunghwa University of Science and Technology,

²National Taiwan University

P.2.16 *The influence of the affective dimension on the digital literacy of older adults*

Lilian Bernardo¹, Sabrina Alvaro¹, Caroline Pizzetti², Taiuani Raymundo²

¹Federal Institute of Rio de Janeiro,

²Universidade Federal do Paraná

13:35 - 14:00 Break

14:00 - 15:00 Roundtable

ISG chapters: challenges and opportunities to raise the global profile of gerontechnology

Convener: **Gloria Gutman**, Simon Fraser U Gerontology Research Centre, Canada

Participants:

Yeh-Liang Hsu, Yuan Ze University, Taiwan

Ishihara Shigekazu, Hiroshima International University, Japan

Barbara Klein, Frankfurt University of Applied Sciences, Germany

Helianthe Kort, University of Applied Sciences Utrecht and Eindhoven University of Technology, The Netherlands

Yeong-Ran Park, Kangnam University, Republic of Korea

Carla da Silva Santana, University of Sao Paulo, Brazil

Yong-Ping Zheng, The Hong Kong Polytechnic University, Hong Kong

15:00 - 15:05 Break

15:05 - 15:35 Keynote Presentation

Jan Helgerud, Norwegian University of Science and Technology, Norway

The fountain of youth goes digital. Exercise capacity, health and longevity - digitally assisted



P.2.17 *Age-related manual dexterity declines associated with reduced white matter integrity in baseline and follow-up sessions*

Shulan Hsieh¹, Meng-Heng Yang¹, Zai-Fu Yao²

¹National Cheng Kung University, ²University of Amsterdam

P.2.18 *PROTECT Norge*

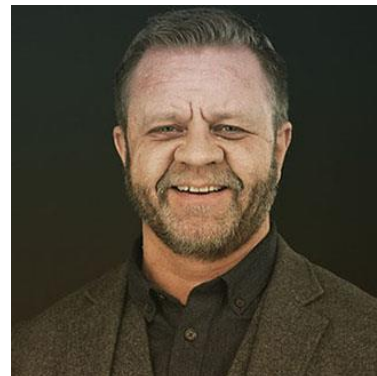
Jon Arild Aakre¹, Martha Therese Gjesten¹, Ingelin Testad¹, Dag Aarsland¹

¹SESAM - Centre for Age-Related Medicine

15:35 - 16:05 Keynote Presentation

Roald Kvam, Motitech AS, Norway

Motiview - turns older people and people with dementia into dedicated athletes



Friday, October 9, 2020

11:45 – 12:00 Introduction of day

12:00 – 13:00 Symposia 9-13

S.9 ***Use of Real-World Data for advancing clinical practice***

Convener: **Sabato Mellone**, University of Bologna, Italy

Kristin Taraldsen, Norwegian University of Science and Technology, Norway

Participants

Ronny Bergquist, Norwegian University of Science and Technology, Norway

Carl-Philipp Jansen, Heidelberg University, Germany

Anisoara Paraschiv-Ionescu, Ecole Polytechnique Federale de Lausanne, Switzerland

S.10 ***Involving older people in the development of technological innovations; an interactive session about co-creation and co-design with older people***

Convener: **Helianthe Kort**, University of Applied Sciences Utrecht and Eindhoven University of Technology, The Netherlands

Participants

Bas Steunenbergh, Utrecht University of Applied Sciences, The Netherlands

Paula Castro, Universidade Federal de Sao Carlos, Brazil

Rens Brankaert, University of Technology Eindhoven and Fontys University of Applied Sciences, Germany

Maribel Pino, Broca Living Lab, France

S.11 ***Current trends in Gerontechnology. Recent findings from the German speaking chapter***

Convener: **Barbara Klein**



Participants

Vera Maria Gallistl, University of Vienna, Austria

Sebastian Merkel, Ruhr-University Bochum, Germany

Jana Tessmer, University of Applied Sciences, Germany

Claudia Oppenauer, Medical University Vienna, Austria

S.12 *Conceptualizing trust and AAL-technology: steps towards a comparative framework*

Convener: **Mads Solberg**, Norwegian University of Science and Technology

Participants

Sigrid Nakrem, Norwegian University of Science and Technology, Norway

Agneta Malmgren Fänge, Lund University, Sweden

Kirsten Thommes, University of Paderborn, Germany

Pernille Nyvoll, Norwegian University of Science and Technology, Norway

Ralf Kirchhoff, Norwegian University of Science and Technology, Norway

S.13 *International perspectives on technology use: Adoption, proficiency, and relationships with health and well-being*

Convener: **Walter Boot**, Florida State University, United States

Participants

Anna Schlomann, University of Cologne, Germany

Sakari Taipale, University of Jyväskylä, Finland

Simona Hvalič-Touzery, University of Ljubljana, Slovenia

13:00 - 13:05 Break

13:00 - 14:15 Exhibition

13:05 - 13:50 Poster Group 3

P.3.1 *Community-dwelling elderly's experience with an educative nutritional intervention*

Jon Arild Aakre¹, Lise Birgitte Holteng¹, Ingelin Testad¹

¹SESAM - Centre for Age-Related Medicine

P.3.2 *Shared Dining as a powerful tool to promote independent life in nursing homes*

Ryoko Fukuda

Benesse Style Care Co., Ltd.

P.3.3 *Co-creating an application for daily use from scratch: the Novel Assessment of Nutrition and Ageing (NANA)*

Arlene Astell¹, Tim Adlam², Faustina Hwang³, Elizabeth Williams⁴

¹University of Toronto, ²Designability, ³University of Reading, ⁴University of Sheffield

P.3.4 *An Older Adult's Perspective on Social Networking Sites Impact on Loneliness*

Nicole O'Brien¹, Yufei Yuan²

¹Suffolk University, ²McMaster University

P.3.5 *Tackling Stigma and Social Isolation Through Touchscreen Games: Let's Connect*

Erica Dove¹, Arlene Astell², Elicia Chamoun¹, Karen Cotnam³, Paul Gural³, Teresa Shearer³



¹Toronto Rehab Canada, ²University of Toronto,
³Oshawa Senior Community Centres

P.3.6 Social presence in embodied virtual agents among lonely older adults

Jordan Sasser¹, Daniel McConnell¹, Fernando Montalvo¹, Eva Parkhurst¹, Janan Smither¹, Gabrielle Vasquez¹

¹University of Central Florida

P.3.7 Computer-based cognitive stimulation and the effects on the Quality of Life in older population

Ana Bonilha¹, Solange Andreoni¹, Luiz Roberto Ramos¹, Ana Paula Vicentin¹

¹Unifesp

P.3.8 The assisted living technology for the older adult users- Current application, challenges, and future development

Sui-Hua Ho¹, Chih-Jen Lin¹

¹National Taiwan University of Science & Technology

P.3.9 Towards a Viability Assessment of Smart-Ready and Life-Long Homes for Ambient Assisted Living

Sumi Hela¹, Smith Andrea², Andrew Ascroft², Christopher Bull¹

¹Lancaster University, ²Lancashire County Council

P.3.10 Policy support tool for mobility of older people

Shahram Chuahdary¹, Davy Janssens¹, An Neven¹, Emily Verte², Geert Wets¹

¹IMOB - University of Hasselt, ²Vrije Universiteit Brussel

P.3.11 Use of a non-invasive device to relieve urinary incontinence in vulnerable elders of a geriatric hospital ward: a feasibility study

Nathavy Um Din¹, Joël Belmin¹, Valérie Gillet¹, Duy Nghiem¹, Yuhei Urabe²

¹Hôpital Charles Foix, ²Triple W

P.3.12 Searching for the success criteria's and challenges with the new concept "Kampen omsorg +"

Karin Høyland¹, Lisbet Grut¹, Hilde Thygesen²

¹SINTEF Community, ²VID vitenskapelige høyskole

P.3.13 Understanding Why Older Adults Use Mobility Devices: Review of the Literature

Tai-Te Su¹, Shannon Mejia¹

¹University of Illinois at Urbana-Champaign

P.3.14 Give the People What they Want, Feedback: Older adult perceptions about cognitive training features that might increase engagement

Nelson Roque¹, Erin Harrell²

¹Pennsylvania State University, ²Florida State University

P.3.15 Nocturnal Wandering Diversion: Preliminary Results from 8 Homes

Laura Ault¹, Rafik Goubran², Frank Knoefel¹, Tarek Nasser El Harake², Heidi Sveistrup¹, Brenda Toonders³, Bruce Wallace²

¹Bruyere Research Institute, ²Carleton University, ³Champlain LHIN

P.3.16 Measuring user-defined facial features for supporting scientific long-term care

Kosuke Hirayama¹, Masahide Nakamura¹, Sachio Saiki¹

¹Kobe University



13:50 - 14:15 Break

14:15 - 15:00 Keynote Presentation

Yeh-Liang Hsu, Yuan-Ze University, Taiwan

A design approach to gerontechnology - From research to daily applications



15:00 - 15:15 Break

15:15 - 16:15 Roundtable

Innovations in Gerontechnology and the 'Human Element.'

Convener: **Sunkyo Kwon**, Hanyang University, South Korea

Participants:

Gloria Gutman, Simon Fraser U Gerontology Research Centre, Canada

Neil Charness, Florida State University, United States

James L. Fozard, University of South Florida, United States

Song K. Choi, University of Hawaii, United States

William Kearns, University of South Florida, United States of America

Yeong-Ran Park, Kangnam University, Republic of Korea

16:15 - 16:20 Break

16:20 - 17:00 Closing ceremony

Preview ISG 2022