# e-VITA

EU-JAPAN VIRTUAL COACH FOR SMART AGEING

## EU-Japan Hybrid Conference on Virtual Coaches for Smart Aging

### 14th - 15th July 2022

**AIRC Tokyo Waterfront (Annex) IIF, JAPAN**

# MIDTERM CONFERENCE PROGRAM

According to the WHO, populations around the world are ageing at a faster pace than in the past and this demographic transition will have an impact on almost all aspects of society. If we want older people to remain independent, able to do what they value the most and continue to be part of society, **this historically significant change in the global population requires adaptations to the way societies are structured across all sectors.**

**This conference provides new concepts of prevention, care and smart living solutions to support human-based care and wellbeing in later life by means of smart technology for community-dwelling older adults in Europe and Japan.**

A solution is presented here by the e-VITA project and its research on smart living solutions for care for older people and active ageing. **The proposed project builds on socio-technology excellence of "Made in Europe" and the excellence of technology "Made in Japan", by combining the most advanced partners and expertise from both areas, and by following the concepts from Society 5.0 (Japan) and Digital Europe (EU).**

**As a consequence, the conference will set the pace for international cooperation between Europe and Japan, and following a strong business case for such services in Europe, Japan, and worldwide.** Of course, this case will encourage the emergence of a whole value chain starting from smart living vendors, via SMEs and R&D centres for trustworthy AI, to industrial operators and communities and care stakeholders.

## DAY 1 - 14 JULY 2022

**SESSION 1 - Knowledge-aware Conversational AI for Virtual Coaching of community-dwelling older adults - 14 July 2022 (9.00 – 11.00 CET / 16.00 – 18.00 JST)**

The technical part of the e-VITA project focuses on key-technologies related to Conversational AI, knowledge graphs, and sensor technology, and on the implementation of the models so they can be used by various interface agents. Moreover, the integration of the technologies and devices for the e-VITA coach concerns standardization and ethical issues in order to address important issues of data sharing, infrastructure, and seamless operation of the modules.

This section of the e-VITA seminar will explore the technologies in more detail and especially focus on their application to the e-VITA domain specific use cases and to relevant other AI applications. The talks will be given by renowned keynote speakers and the e-VITA project partners.

| | |
|---|---|
| 09:00 – 16:00 | **WELCOME AND INTRODUCTORY REMARKS**<br>Junichi Tsujii, *Director of AIRC*, Volker Wulf, *University of Siegen* and Yasuyuki Taki *University of Tohoku*. Chair : Kristiina Jokinen, *AIRC* |
| 09:15 – 16:15 | **SESSION 1 - KNOWLEDGE-AWARE CONVERSATIONAL AI FOR VIRTUAL COACHING OF COMMUNITY-DWELLING OLDER ADULTS**<br>Chair: Kristiina Jokinen, *AIRC*<br><br>**LANGUAGE-BASED HUMAN-AI COOPERATION IN SPECIALIZED DOMAINS**<br>Irina Gurewych, *UKP Lab, Technical University of DarmstadtUniversity of Darmstadt* |
| 09:45 – 16:45 | DISCUSSION |
| 09:55 – 16:55 | COFFEE BREAK |
| 10:00 – 17:00 | **CONVERSATIONAL COACHING TO IMPROVE THE WELL-BEING OF THE OLDER ADULTS**<br>Maria Ines Torres, *University of Basque Country* |
| 10:15 – 17:15 | **SERVICE ROBOTS AND STANDARDISATION**<br>Takashi Yoshimi, *Shibaura Institute of Technology* |
| 10:30 – 17:30 | **INTEGRATING HUMAN ACTIVITY KNOWLEDGE INTO AI TECHNOLOGY FOR OLDER ADULTS SUPPORT**<br>Ken Fukuda, *DKIRT, AIRC, AIST* |
| 10:45 – 17:45 | DISCUSSION |
| 11:00 – 18:00 | COFFEE BREAK |

**DAY 1 - 14 JULY 2022**

**SESSION 2: ICT support for Aging well and good Health  - 14 July 2022 (11.10 – 13.00 CET / 18.10 – 20.00 JST)**

In the area of health and soon also in the ageing sector, digitalization is starting. The goal will be personalized medicine and personalized care. Our project e-VITA is developing a virtual coach for people and laying a foundation for future personalized care. This fits very well with the concept of an AI-ready society, the Society 5.0. It is based on the collection of data from sensors in the physical world which is then analyzed by AI and which results in advice given back to the real world. This will help to optimize and personalize the medical care and enable a personalized advice or personalized care strategy for ageing.

| Time | |
|---|---|
| 11:00 — 18:00 | **SESSION 2 -  ICT SUPPORT FOR AGING WELL AND GOOD HEALTH**<br>Chair : Asako Ohara, *MISAWA HOMES* |
| 11:15 — 18:15 | **JAPAN'S GOAL OF WELL-BEING AS AN AGING DEVELOPED COUNTRY?**<br>Shino Sawaoka, *The Dia Foundation for Research on Ageing Societies* |
| 10:45 — 18:45 | DISCUSSION |
| 11:55 — 18:55 | COFFEE BREAK |
| 12:00 — 19:00 | **MEASUREMENT OF WELL-BEING IN THE LIVING ENVIRONMENT**<br>Gian Marco Revel, *Universita Politechnica della Marche* |
| 12:15 — 19:15 | **VIRTUAL COACH APPLICATIONS IN MCI OLDER PEOPLE, THE H2020 VALUECARE EXPERIENCE**<br>Oscar Zanutto, *UNIVPM* |
| 12:30 — 19:30 | **PERSON-CENTRED, ROBOTICS-AIDED CARE SYSTEM: WHY A SOCIO-ECOLOGICAL APPROACH MATTERS ?**<br>Naonori Kodate, *University College Dublin* |
| 12:45 — 19:45 | DISCUSSION |
| 13:05 — 20:05 | **DEMONSTRATION OF E-VITA COACH PROTOTYPE**<br>*AIST, ENG, InfAI* |
| 13:20 — 20:20 | **CLOSING**<br>Rainer Wieching, *University of Siegen* and Toshimi Ogawa, *University of Tohoku* |

EU-JAPAN VIRTUAL COACH FOR SMART AGEING

## DAY 2 - 15 JULY 2022

**SESSION 3 :** Policy perspectives to support ageing well in Europe and Japan -
15 July 2022 (9.00 – 11.00 CET / 16.00 – 18.00 JST)

In a rapidly digitalizing society, equal opportunities to access and use digital technology are essential for social inclusion and participation. However, older people are often highly stereotyped regarding their abilities to use - and learn how to use - digital technology. The session will address the different barriers to the adoption of technology and come up with recommendations to address this burning issue.

| | |
|---|---|
| 09:00 – 16:00 | **WELCOME AND INTRODUCTORY REMARKS**<br>Keiko Homma, *HARC*, Masaaki Mochimaru, Director of *HARC,* Toshimi Ogawa, *University of Tohoku* |
| 09:15 – 16:15 | **SESSION 3 - POLICY PERSPECTIVES TO SUPPORT AGEING WELL IN EUROPE AND JAPAN**<br>Chair: Keiko Homma, *HARC*<br>**POLICY MEASURES TO ADDRESS AGEISM AS A BARRIER TO ADOPTION AND USE OF DIGITAL TECHNOLOGY**<br>Hanna Köttl, *AGE Platform Europe* |
| 09:45 – 16:45 | DISCUSSION |
| 09:55 – 16:55 | COFFEE BREAK |
| 10:00 – 17:00 | **INCLUSIVE CO-CREATION WITH OLDER ADULTS**<br>Ruben Albers, *University of Siegen* |
| 10:15 – 17:15 | **LIVING LAB IMPRESSION FROM JAPANESE END USERS**<br>Ryan Browne, *University of Tohoku* |
| 10:30 – 17:30 | **AGEING, DIGITAL INCLUSION AND THE DIGITAL DIVIDE'**<br>Malcolm Fisk, *De Montfort University* |
| 10:45 – 17:45 | DISCUSSION |
| 11:00 – 18:00 | COFFEE BREAK |

**EU-Japan Virtual coach for smart ageing**

## DAY 2 - 15 JULY 2022

**SESSION 4: Exploitation – silver economy and market - 15 July 2022 (11.10 – 13.00 CET / 18.10 – 20.00 JST)**

In order for e-VITA coach to become a familiar part of the daily lives of older adults in Japan and Europe in the near future, it is important to analyze the lifestyles and markets of the older potential consumers and explore how it can be delivered to them. In fact, it is said that businesses targeting the older adults are unlikely to succeed that they start with a mass of market, such as by dividing them into generations. So how exactly should you go with this.
In this session, we will unravel the answers from the market and business perspectives.

| | |
|---|---|
| 11:00 — 18:00 | **SESSION 4 - EXPLOITATION - SILVER ECONOMY AND MARKET**<br>Chair : Toshimi Ogawa, *University of Tohoku* |
| 11:15 — 18:15 | **JAPANESE SENIOR MARKET**<br>Shinji Tomita, *The Japan Genki Senior Research Institute* |
| 10:45 — 18:45 | DISCUSSION |
| 11:55 — 18:55 | COFFEE BREAK |
| 12:00 — 19:00 | **SILVER MARKETING**<br>Shuji Nishizaki, *Gatebox* |
| 12:15 — 19:15 | **DIGITAL HEALTH LITERACY IN EUROPE - INTRODUCTION OF A NEW TOOLSET FOR THE WORK OF A GERMAN HEALTH INSURANCE**<br>Kai Kolpatzik, *AOK-Bundesverband* |
| 12:30 — 19:30 | **DEVELOPMENT OF INTERGENERATIONAL, ITERATIVE AND REWARDING APPS AND VIDEOGAMES FOR EARLY PREVENTION AT OLDER AGES**<br>Gerard Cornet, *Institut Universitaire de Gerontologie YM* |
| 12:45 — 19:45 | DISCUSSION |
| 13:05 — 20:05 | **EXPERIMENTAL RESULTS OF THE EVITA LIVING LAB**<br>*INCRA, University of Tohoku* |
| 13:20 — 20:20 | **CLOSING**<br>Toshimi Ogawa, *University of Tohoku,* Rainer Wiehing, *University of Siegen* Kristiina Jokinen, *AIRC* and Keiko Homma, *HARC* |