



## The 6th International Conference on Ageless Aging (ICAA'18) — AI for All Ages

# CALL FOR PAPERS

**Conference Venue:** Nanyang Technological University, Singapore

**Conference Date:** July 28-31, 2018

**Conference Website:** <http://icaa2018.crowdsience.org/>

**Submission Website:** <https://easychair.org/conferences/?conf=icaa2018>

In conjunction with [IEEE ICA'18](#) and [ICCSE'18](#)

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### IMPORTANT DATES

- **May 18, 2018** : Deadline for paper submission
- **June 15, 2018**: Notification of acceptance and early-bird registration starts
- **June 29, 2018**: Deadline for early-bird registration
- **July 7, 2018**: Submission deadline for camera-ready version of papers
- **July 28-31, 2018**: ICAA'18 conference

The rapid aging of population worldwide has brought unprecedented social economic challenges to the society. Apart from physical, cognitive and emotional difficulties faced by senior citizens, two new types of challenges – social challenges and sustainable economic development challenges – are becoming more prominent. Research and technology that will enable the elderly to lead an active, independent and dignified lifestyle are urgently needed.

The 6th International Conference on Ageless Aging (ICAA'18) will act as a forum to discuss advances in the state-of-the-art in research and practice to help the elderly enjoy an active and independent lifestyle. Authors from both academia and industry are invited to share their experience, vision, ideas and research about ageless aging. Both theoretical and practical contributions are welcome.

The theme of ICAA'18 is AI for All Ages. We welcome submissions reporting research that advances ageless aging through AI technologies. The conference scope includes (but not limited to) topics such as AI, data analytics, Internet of things (IoT), human-computer interaction (HCI), and their applications or deployments in cognition and person-centric care, future nursing home, life-long learning, aging-in-place, serious games, productive aging, aging studies and test-bedding.

The ICAA'18 organizing committee shall put up the request to ACM for the inclusion of the ICAA'18 Proceedings in ACM Digital Library. If such request is approved by ACM, all papers included in the ICAA'18 Proceedings will be EI Indexed.

The topics of interest of ICAA'18 include but are not limited to the following:

### **AI and Data Analytics**

- Virtual Companions
- Agent Emotion Modeling
- Human-agent Interaction Design
- Persuasion Technology
- Elderly User Behavior Analysis and Modeling
- Human Factors
- Agent-based Personalized Rehabilitation
- Intention Based Recommendation
- Context Aware Optimization
- Personalized Service Discovery and Matching

### **Cognition and Person-Centric Care**

- Cognitive Functioning
- Models of Care
- Preventive Intervention
- Rehabilitation
- Cognitive Decline Prevention
- Dementia
- Parkinson
- Stroke

### **Aging Study and Test-bedding**

- Crowdsourcing
- Human computer interaction
- Phenomenography
- Participatory design and co-design approaches
- Culture awareness
- Innovative technologies for test-bedding
- Sustainability

### **Future Nursing Home**

- Assistive technologies to reduce manpower
- Data analytics for nursing home studies
- Provision of companion and support to the residents
- Innovations to improve the well-being of the staff
- Sustainable and affordable care models
- Designs to improve the living environment
- Other factors involved in future-ready nursing homes

### **Life-long Learning**

- Measuring learning success
- Motivational and affective aspects
- Learning analytics
- Educational datamining
- Human computer interaction
- Adaptation and personalization

### **Aging-in-Place**

- Unobtrusive sensing
- Data-driven storytelling
- Cognitive analytics
- Fall detection and prevention
- Location tracking
- Social signal processing
- Auto indoor navigation
- Explained computing
- Internet-of-things

### **Serious Games**

- Motor and cognitive function analysis
- Predictive analytics
- Game data analytics
- Cognitive training and exercise
- Personalized rehabilitation
- Gerontology disease prevention

### **Productive Aging**

- Intergenerational communication
- Incentive mechanisms
- Recommendation systems
- Crowdsourcing
- Behavior analytics
- Productivity

### **Industry Application**

The emphasis of this track is on technical advances that address aging relevant problems and applications that stretch or present challenges to existing aging technologies.

### **Blue-sky**

The emphasis of this track is on visionary ideas, long-term challenges, and new research opportunities. This track will serve as an incubator for innovative approaches, provocative ideas, and to propose challenges and opportunities for the field in the near future.

ICAA'18 solicits original work submitted as a regular paper of up to 8 pages (inclusive of references) in ACM format (URL: <http://www.acm.org/publications/proceedings-template>). Accepted papers will appear in the ICAA'18 proceedings. The authors of a selected number of top quality papers will be invited to extend their papers for further review and possible publication in special issues of reputable journals. Papers have to be submitted via the EasyChair submission page: <https://easychair.org/conferences/?conf=icaa2018>.

## **AWARDS**

Awards will be conferred at the conference banquet to the authors of the Best Paper and the Best Student paper.

## **CONTACT**

If you have any inquiry regarding author instructions, conference registration, suggestions for the program and other inquiries, please write to the ICAA'18 Organizing Committee at [icaa2018@easychair.org](mailto:icaa2018@easychair.org).