

**Invited Speaker 1: Professor Young Im Cho (Gachon University, Korea)**

**Title: IS-1 Artificial Intelligence for Sustainability in Smart City and life**



Professor Young Im Cho is Chairman of AI & Smart City Laboratory at Gachon University since 2016-. She is Chairman of Korea Intelligent System Society (Since 2018/1), Member of the Smart City Special Committee of KOREA PRESIDENT (since 2017/11), Member of e-Government Driving Forum (since 2015.3), Board Member of National Information Society (public)

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Board Member of Korea Local Information Research and Development Institute (public), Committee member of Public Open Data Committee at Ministry of Interior in Korea, e-Government Committee Member at Ministry of Interior in Korea, Committee member of Intelligent Society at Ministry of Science, ICT and Future Planning ('16.5~), Committee, member of e-Government at Ministry of Interior ('16.4~) since 2014/1. She was Visiting Professor at Purdue University (USA) (2013.8~2014.2). She is A Committee Member of National ICT Strategies in Korea Government 3.0 Committee Member at Ministry of Interior (Korea) & Chairman of Smart City Forum in Korea since 2011.

2010~2012	Chairman of University Industry Technology Force Team (UNITEF)
2010~2012	President Council of National Information Strategy Committee in Korea
2010~Current	Committee Member of Ministry of Science and Future Planning Ministry of Education Ministry of the Interior Ministry of Land and Transportation Incheon City, Smart City Committee Board member Gyeonggi province, Smart City Committee Board member

2000~2017	Vice President of Korea Intelligent System Society Korea Engineering Education Society Director of Korea Information System Society Institute of Control Automation System Society
2005~2015	Professor at Suwon University (Head of Information Center, Chairman of Smart City Center)
2004~2010	Chairman of Ubiquitous Informatization Driving Force Team at Pyeongtaek City in Korea
2006~2008	ICT Consultant Member of Korea Consumer Protection Board
1996~2005	Professor at University of Pyeongtaek
1999~2000	Post-doc. at University of Massachusetts at Amherst, USA
1995~1996	Senior Researcher of Samsung Electronics

Research Filed:

Artificial Intelligence, Smart City, Big data, Agent system, Intelligent Robots etc.

## Invited Speaker 2: Professor Kaoru Sumi (Future University Hakodate, Japan)

**Title:** IS-2 will be appeared soon.



Prof. Kaoru Sumi

Kaoru Sumi is a professor in the Department of Media Architecture, Future University Hakodate, Japan. Prof. Sumi received her Ph.D. in engineering from the University of Tokyo.

She is currently working on the following research.

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- Affective Computing
- Digital storytelling
- Evaluation and control of video / animation / game effect
- Persuasion technology using character agents
- Serious games

She previously worked at ATR MI&C Research Laboratories, Communications Research Laboratory, and Osaka University, where she researched human-computer interaction, knowledge engineering, and the application of artificial intelligence. After Prof. Sumi worked on media informatics and human-agent interaction at the National Institute of Information and Communications Technology (NICT), she was an associate professor at Hitotsubashi University.

### Abstract

In this talk, I will present the effect of using emotions in humans and artifacts (computer systems, virtual agents, robots, etc.) interaction. As known as Media Equation, the relationship between humans and artifacts is similar to the social relationship between humans and humans. For example, when a human is helped by an artifact a human want to thank artifacts and return something. Like humans, it is

important for artifacts to recognize emotions and express emotions in relation between humans and artifacts. In this talk, I introduce a technique to recognize and express emotions in human interaction with artifacts and show examples of how effective artifacts are when using emotions.