

Special Session on Human-Centric Computing

Organisers:

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Aim and scope:

Today, we are witnessing the advent of ubiquitous computing. Computers are not special machines, they are common apparatus. We are using computers without any special attention. For example, telephones, watches and even thermometers have some kind of computational abilities. Therefore computational technologies should become human centric. Human centric computing should be one of the mainstreams of computational technologies.

In this session, we would like to meet with various background research scientists as well as industry specialists to discuss how we can make various computational technologies, typically soft-computing technologies, support the welfare of humanity. Through this session, we would like to foster any inspirations for designing and developing novel computational applications based on soft-computing technologies to support human beings.

Areas of interest include, but are not limited to:

- Design, implementation and evaluation of human computer interactions
- Bio-inspired algorithms and applications
- Agent and multi-agent systems
- Robotics and multi-robot systems
- Software visualization
- Crowd-sourcing and sensor networks
- Artificial intelligence for supporting humans
- Intelligent apparatus for disabled people
- Computer aided learning systems and intelligent education systems
- Virtual reality and augmented reality systems for self development and distance training
- Any other kinds of human supportive technologies

Yasushi Kambayashi is Associate Professor of the Department of Computer and Information Engineering, at Nippon Institute of Technology, Japan. He worked at Mitsubishi Research Institute as a staff researcher before joining the Institute. His research interests include theory of computation, theory and practice of programming languages, multi-agent systems, as well as political science. He received his PhD in Engineering from the University of Toledo in 2002, his MS in Computer Science from the University of Washington in 1986, and his BA in Law from Keio University in 1980. He has recently conducted several research projects on multiple mobile software agents that involve in peer-to-peer networks and cooperative multiple robots as well as intelligent human computer interfaces. He served as an editorial board member of IARIA International Journal on Advances in Internet Technology, and as a committee member of the Japan Information-Technology Engineers Examination. He is also member of member of ACM, IEEE Computer Society, Tau Beta Pi, IPSJ, JSSST, IEICE System Society, IADIS, and Japan Flutist Association.