



International

Innovation in Knowledge Based and Intelligent Engineering Systems



INVITED SESSION SUMMARY

Title of Session:

Skill Acquisition and Ubiquitous Human Computer Interaction

Name, Title and Affiliation of Chair:

Masato Soga, Associate Professor, Wakayama University
Hirokazu Miura, Assistant Professor, Wakayama University
Hirokazu Taki, Honorable Professor, Wakayama University

Details of Session (including aim and scope):

This session will focus on the intelligence in skills and novel human computer interactions in the coming ubiquitous era. Knowledge and/or intelligence can be found not only in the form of language but also they appear in behaviors and skills of living creatures. With a motion capture system, ubiquitous sensors, and other electronics devices, we can electronically observe and record people motions and human computer interactions. The knowledge and skills elicited from these should be useful especially when you learn skills of playing sports, musical instruments and crafting things. The topics of interest include but are not limited to:

1. Method of observing behaviors and motions of human being and other living creatures. This includes sensor devices/systems and algorithms.
2. Intelligence model in behaviors and motions.
3. Ubiquitous system that can provide novel human computer interaction, e.g. Q & A system.
4. Analysis of brain activities during human computer/machine interactions.
5. Brain Computer/Machine Interfaces (BCI/BMI).
6. Skill learning support systems/environments.
7. Active learning or Project based learning methods applying human computer interactions.
8. Application with AI methods/Neural networks regarding human computer interactions.

Main Contributing Researchers / Research Centres (tentative, if known at this stage):**Website URL of Call for Papers (if any):**

<http://www.wakayama-u.ac.jp/~soga/sogalabhp/KES2021/kes2021soga.html>

Email & Contact Details:

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