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RESEARCH INTEREST

Human-Computer Interaction (HCI), User Interface, Urban Informatics,
Embodied-Cognitive Science and Skill Acquisition.

EDUCATION

Ph.D., Knowledge Science **2007-2010**

School of Knowledge Science, Japan Advanced Institute of Science and Technology, Japan.
Advised by Prof. Tsutomu Fujinami.

Master of Knowledge Science **2005-2007**

School of Knowledge Science, Japan Advanced Institute of Science and Technology, Japan.
Advised by Prof. Tsutomu Fujinami.

Bachelor of Media Architecture **2001-2005**

Department of System Information Science, Future University Hakodate, Japan.
Advised by Prof. Toshio Kawashima.

PROFESSIONAL EXPERIENCE

Ritsumeikan University **2014-current**

Shiga, Japan.
as an Assistant professor

Future University Hakodate **2012-2014**

Hokkaido, Japan.
as a Postdoctoral Researcher

Japan Advanced Institute of Science and Technology **2005-2012**

Ishikawa, Japan.
as a Postdoctoral Researcher, Research Assistant and Teaching Assistant (Embodied Cognitive Science).

JST ERATO IGARASHI Design UI Project **2008**

Tokyo, Japan.
as an Intern.

Webcore Corp. **2007**

Tokyo, Japan.
as a Python/Plone Programmer.

Larvasoft Inc. **2003-2005**

Hokkaido, Japan.
as a Manager/Developer. A foundational member.

LANGUAGE SKILL

Japanese

Native.

English

Intermediate.

COMPUTER LANGUAGE SKILL

Assembler [x86, Z80, 8051 and PIC 10x], C, Objective-C, Java, C#, Javascript, Python, Perl, Verilog-HDL, VHDL, R, MATLAB (Octave), LabVIEW, etc.

PUBLICATIONS (SELECTED)

Journal papers

Ryuji Yamazaki, Shuji Nishio, Kohei Ogawa, Kohei Matsumura, Takashi Minato, Hiroshi Ishiguro, Tsutomu Fujinami, and Masaru Nishikawa. 2013. Promoting Socialization of Schoolchildren Using a Tele-operated Android: An Interaction Study. *International Journal of Humanoid Robotics*, vol. 10, no. 01.

Kohei Matsumura and Yoji Kohda. 2012. Development of Video Fieldwork Method for Office Work. *Journal of Japan Industrial Management Association*, 196-199, Japan Industrial Management Association, 63(4). (in Japanese)

Kohei Matsumura, Tomoyuki Yamamoto, and Tsutomu Fujinami. "The role of body movement in learning to play the shaker to a samba rhythm: An exploratory study." *Research Studies in Music Education* 33, no. 1 (2011): 31-45.

Kohei Matsumura, and Tomoyuki Yamamoto. "A Wearable Accelerometer Array for Human Movement Analysis Based on rBSN Approach." *SICE Journal of Control, Measurement, and System Integration* 4, no. 3 (2011): 206-213.

International conference and workshop papers | Refereed

Kohei Matsumura and Yasuyuki Sumi. 2013. CameraMatch: automatic recognition of subjects using smartphones-toward entertaining photo sessions. In *CHI '13 Extended Abstracts on Human Factors in Computing Systems (CHI EA '13)*. ACM, New York, NY, USA, 1365-1370. DOI=10.1145/2468356.2468600

Kohei Matsumura and Yasuyuki Sumi. 2013. Puppetooner: A puppet-based system to interconnect real and virtual spaces for 3D animations. *IEEE Symposium on 3D User Interfaces (3DUI)*, 159-160. doi: 10.1109/3DUI.2013.6550227

Kohei Matsumura and Yasuyuki Sumi. 2012. Blockon: a block based buildable remote controller. In *Proceedings of the 11th International Conference on Mobile and Ubiquitous Multimedia (MUM '12)*.

Kohei Matsumura, Daisuke Sakamoto, Masahiko Inami and Takeo Igarashi. Universal Earphones: Earphones with Automatic Side and Shared Use Detection. In *ACM IUI'12*. 2012.

Ryuji Yamazaki, Shuichi Nishio, Kohei Ogawa, Hiroshi Ishiguro, Kohei Matsumura, Kensuke Koda and Tsutomu Fujinami. How Does Telenoid Affect the Communication between Children in Classroom Setting? In *ACM CHI'12*. 2012.

Kohei Matsumura and Tsutomu Fujinami. Prediction of timing while hitting drum with drumstick. In *proceedings of the 10th Motor Control and Human Skill Conference*. Mandurah, Australia. 2011.

Kohei Matsumura and Tsutomu Fujinami (2010). "Interaction Between The Body and The Environment While Expressing Samba Rhythm". In *ICMPC11: 11th International Conference on Music Perception and Cognition*.

Youji Kohda and Kohei Matsumura. 2012. Development of a Video Field-work Tool for Analyzing Office Work. In *International Workshop on Service Sciences (ACIS-SS 2012)*, 343-347. Siem Reap, Cambodia.

Kohei Matsumura and Tomoyuki Yamamoto (2010). "A Method for Analyzing Fast Rotational Movement using Multiple 6-axial Accelerometers". In *IEEE INSS2010: Seventh International Conference on Networked Sensing Systems*.

Kohei Matsumura and Tomoyuki Yamamoto (2009). "A Wearable Accelerometer Array for Analysis of Human Movements". In *SKILLS2009: International Conference on Multimodal Interfaces for Skills Transfer*.

Tomoyuki Yamamoto, Taku Okawa, Kohei Matsumura and Tsutomu Fujinami (2009). "Analysis of Arm Oscillation of Drumming using Accelerometer Array". In *7th Progress in Motor Control in Marseille*.

Kohei Matsumura, Tomoyuki Yamamoto and Tsutomu Fujinami (2009). "An Analysis of Accent in Shaker Performance Using Accelerometers". In *The 9th Motor Control and Human Skill Conference*.

Kohei Matsumura, Tomoyuki Yamamoto and Tsutomu Fujinami (2007). "A Study of samba dance using acceleration sensors". In *The 8th Motor Control and Human Skill Conference*.

Domestic conference and workshop papers

abbr.

Invited Talks

Kohei Matsumura "Skill Science: where Science, Art, and Ethics meet.(Day 1) -Measuring Rhythms-". University of Malta. March 15, 2010.

Kohei Matsumura. In "East-West Knowledge Leaders Program (EWKLP)". 6 Jun. 2007.

ACADEMIC SERVICES

Special Session Co-Chair

IEEE Global Conference on Consumer Electronics (GCCE) **2014**

Organizing committee

ACM Asia Pacific Conference on Computer Human Interaction (Website chair) **2012**

Program committee

ACM International Conference on Advances in Computer Entertainment Technology **2011—**

Reviewer

IEEE GCCE **2013—**

International Conference on Advances in Computer Entertainment Technology **2010—**

ACM CHI **2014**

IEEE VR **2012**

IEEE 3DUI **2012**

ACM Multimedia **2012**

Information Processing Society of Japan **2008,2010,2013, 2014**

Human Interface Society, Japan **2008**

Human Movement Science **2012**

REFERENCE

Prof. Haruo Noma

College of Information Science and Engineering, Ritsumeikan University.
noma@media.ritsumeai.ac.jp

Prof. Yasuyuki Sumi

School of Systems Information Science, Future University-Hakodate.
sumi@acm.org

Prof. Yoji Kohda

School of Knowledge Science, Japan Advanced Institute of Science and Technology.
kohda@jaist.ac.jp

Prof. Tsutomu Fujinami

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fuji@jaist.ac.jp