

Taro Sugihara

Address: School of Knowledge Science,
Japan Advanced Institute of Science and
Technology (JAIST), 1-1 Asahidai, Nomi,
Ishikawa 923-1292, Japan

Telephone: +81-761-51-1723
E-mail: sugihara@jaist.ac.jp
Nationality: Japanese

Education

- 2005 PhD (Engineering), Kyoto Institute of Technology, Japan, 2002-2005
Major: Information engineering
Dissertation: Development of personalized music information retrieval system
with sensitivity and analysis of users' behaviour for the system
- 2002 MA (Engineering), Kyoto Institute of Technology, Japan
Major: Information engineering
Dissertation: An analysis of sensitivity for personalized music information
retrieval system.
- 2000 BA (Engineering), Advanced course, Tokuyama College of Technology
Major: Mechanics and electronics
Dissertation Topic: Chord generation system with chaos neural network.

Work experience

- 2005-present **Assistant professor** at School of Knowledge Science in Japan Advanced
Institute of Science and Technology (JAIST)
- 2010-2011 **Visiting scholar** at Institute for Manufacturing in University of Cambridge, UK
- 2007-2008 **Visiting lecturer** at Kanazawa Technical College

Teaching experience

- 2007-present Introduction to Social Research at JAIST
- 2007-2008 Multimedia, consisted of JAVA programming and introduction to multimedia
technologies, at Kanazawa Technical College

Grants

- 2011-13 Grant-in-Aid for Scientific Research (23500646) of JSPS (as a partaker.
Representative for this project is Tsutomu Fujinami)
- 2010-12 the Service Science, Solutions and Foundation Integrated Research Program
(S³FIRE) from JST. (as a partaker. Representative for this project is Naoshi
Uchihira)
- 2010-12 Grant-in-Aid for Scientific Research (22615017) of JSPS (as a partaker.
Representative for this project is Yasuo Ikawa)
- 2009-11 Grant-in-Aid for Scientific Research (21330089) of JSPS (as a partaker.
Representative for this project is Katsuhiko Umemoto)
- 2006 Grant for Industrial Technology Research (05B54502) of NEDO (representative
for this project)

Research interests

Analysis of users' behaviour for computer-human interaction (caregiving for persons with dementia, academic medical centre, elementary school and high school), effects on adult education

Publications

Journal papers

- Miura, M., Sugihara, T. and Kunifuji, S.: GKJ: Group KJ Method Support System Utilizing Digital Pens, The IEICE Transactions on Information and Systems, Vol. E94-D, No. 3, pp. 456-464, 2011.
- Miura, M., Ito, S., Takatsuka, R., Sugihara, T., Kunifuji S.: An Empirical Study of an RFID Mat Sensor System in a Group Home, Journal of Networks (JNW), Academy Publisher, Volume 4, Issue 2, pp. 133-139, 2009.
- Nine journal papers wrote in Japanese journals.

Conference papers (refereed)

- Miura, M., Sugihara, T.: Effect of Students' Seat Location on Programming Course Achievement, Proc. of 15th International Conference on Knowledge-Based Intelligent Information and Engineering Systems (KES2011), LNCS 6883, pp. 539-547 (2011)
- Sugihara, T., Fujinami, T.: Emerging Triage Support Environment of Care with Camera System for Persons with Dementia, The HCI International 2011 Conference Proceedings, LNCS 6779, 149-158, (2011)
- Fujinami, T., Miura, M., Takatsuka, R. and Sugihara, T.: A Study of Long Term Tendencies in Residents' Activities of Daily Living at a Group Home for People with Dementia using RFID Slippers, Proc. of the 9th International Conference on Smart Homes and Health Telematics (ICOST 2011), 303-307, (2011).
- Sugihara, T., Miura, M., Kunifuji, S.: Practicing on Stage: Increasing Transparency and Interaction in Class Activity with Digital Pen system, Proc. of 14th International Conference on Knowledge-Based Intelligent Information and Engineering Systems (KES2010), LNCS 6279, pp. 457-464, Cardiff, Wales, UK 2010.
- Aosaki, Y., Sugihara, T., Umemoto, K.: Examining the Trend toward a Service Economy in Information Media through Changes to Technology: Influence of Twitter on Media Companies, Proc. of Portland International Conference on Management Engineering and Technology 2010 (PICMET2010), pp. 2910-2914, Phuket, Thailand, 2010.
- Sugihara, T., Miura, M., Kunifuji, S.: Examining the Effects of the Simultaneous Display of Students' Responses using a Digital Pen System on Class Activity: A Case Study of an Early Elementary School in Japan, Proc. of the 10th IEEE International Conference on Advanced Learning Technologies (ICALT2010), pp. 294-296, Sousse, Tunisia, 2010.

- Miura, M., Sugihara, T., Kunifuji, S.: Instant Seat Mapping for Student Note Sharing Process, Proc. of the 10th IEEE International Conference on Advanced Learning Technologies (ICALT2010), pp. 382-383, Sousse, Tunisia, 2010.
- Sugihara, T., Kobayashi, Y. and Ikawa, Y.: Risk Factors of the Long Tail in Mobile Manga Sales, Proc. of Portland International Conference on Management Engineering and Technology 2009 (PICMET'09), pp. 1807-1811, Portland, Oregon, USA, 2009.
- Sugihara, T., Nakagawa, K., Liu, X. and Fujinami, T.: The Effects of Camera System on Caregivers' Behaviors to Persons with Dementia, The HCI International 2009 Conference Proceedings, Lecture Notes in Computer Science, Vol. 5614, pp. 297-303, San Diego, CA, (2009).
- Miura, M., Sugihara, T., Kunifuji, S.: Augmented Collaborative Card-based Creative Activity with Digital Pens, The HCI International 2009 Conference Proceedings, Lecture Notes in Computer Science, Vol. 5610, pp. 644-651, San Diego, CA, (2009).
- Miura, M., Sugihara, T., Kunifuji, S.: Anchor Garden: An Interactive Workbench for Basic Data Concept Learning in Object Oriented Programming Language, Proc. of 14th ACM--SIGCSE Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE2009), Paris, pp. 141-145, (2009).
- Ishimatsu, H., Sugihara, T., and Ikawa, Y., "DID THE DIFFUSION OF THE INTERNET IN JAPAN TAKE OFF BY MOBILE INTERNET?", Proceedings of the 1st ISPIM Innovation Symposium, (2008).
- Sugihara, T., Nakagawa, K., Fujinami, T. and Takatsuka, R., Evaluation of a Prototype of the Mimamori-care System for Persons with Dementia, Proc. of 12th International Conference on Knowledge-Based Intelligent Information and Engineering Systems (KES2008), LNAI 5178, pp. 839-846 (2008).
- Nakagawa, K., Sugihara, T., Koshiba, H., Takatsuka, R., Kato, N. and Kunifuji, S.: Development of a Mimamori-Care System for Persons with Dementia Based on the Real World-Oriented Approach, Proc. of 11th International Conference on Knowledge-Based Intelligent Information and Engineering Systems (KES2007), Part II, LNAI 4693, Vol. II, pp. 1261-1268, Vietri sul Mare, Italy (2007).
- Sugihara, T., Morimoto, K. Kurokawa, T.: An Improved Kansei-Based Music Retrieval System with a New Distance in a Kansei Space, Proc. of 13th IEEE International Workshop on Robot and Human Interactive Communication, pp. 141-146, Kurashiki, Okayama (2004).