Keiko Sato, ph.D.

Position:

Assistant Professor.

Department of Intelligent Mechanical Systems Engineering,

Faculty of Engineering, Kagawa University

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Research Interests:

- Color sensation and perception of color vision deficient individuals
- Emotion and impression in multimedia such as visual, audio, and their combinations
- Multimodal interaction
- Color universal design

Education

- PhD in Engineering, Department of BASE (Bio-Applications and Systems Engineering), Tokyo University of Agriculture and Technology, Japan (March 2011)
- BA in Education, Faculty of Education, Okayama University, Japan (March 2005)
- MA in Education, Graduate School of Education, Okayama University, Japan (March 2007)

Job Experience

- Assistant Professor, Department of Intelligent Mechanical Systems Engineering, Faculty of Engineering,
 Kagawa University, Japan, 2013-present
- Research Associate, Department of Psychology, Faculty of Letters, Ritsumeikan University, Japan, 2008-2012

Teaching Experience

- 2013-present: Information Literacy
- 2013-present: Programing Exercise

• 2013-present: Mechatronics Exercise I and II

Grants, Funds and Awards

- 2015-2016: Grant-in-Aid for Young Scientists (B) from Japan society for the Promotion Science,
 Principal Investigator
- 2016: Research Grant from Japan Foundation for Aging and Health, Principal Investigator
- 2015: Best Presentation in Session Award, IEEE-IECON2015
- 2015: Grant Aid for Travel from the Telecommunications Advancement Foundation, Principal Investigator
- 2015: Research Grant from JKA Promotion Foundation, Principal Investigator
- 2014: Research Grant from CASIO Science Promotion Foundation, Principal Investigator
- 2014: Grant-in-Aid for SCOPE (Strategic Information and Communications R&D Promotion Programme) from MIC (Ministry of internal Affairs and Communications), Principal Investigator

Memberships, Academic and Department Service

- Member, JPA (The Japanese Psychological Association)
- Member, IEEJ (The Institute of Electrical Engineering of Japan)
- Member, IEICE (The Institute of Electronics, Information and Communication Engineers of Japan)
- Member, ICVS (The International Colour Vision Society)
- Member, IEEE (The Institute of Electrical and Electronics Engineers)

Publications

Journal Articles

- K. Sato and T. Inoue, "Perception of color emotions for single colors in red-green defective observers", PeerJ 4:e2751, 2016 [DOI: https://doi.org/10.7717/peerj.2751]
- 2. <u>K. Sato</u> and Y. Mitsukura, "Effects of Music on Image Impression and Relationship between Impression and Physical Properties", Electronics and Communications in Japan, Vol. 96, No. 9, pp.53-61, 2013

International Conferences

- 1. <u>K. Sato</u>, "Warmth and Coolness of Colors in Color-Vision Deficient Observers", In Program and Proc. of the International Congress of Psychology, p.114, 2016
- 2. <u>K. Sato</u>, H. Takimoto, and Y. Mitsukura, "Analysis of color categorization for color vision deficient subjects at different luminance levels", In Proc. of the Annual Conference of the

- IEEE Industrial Electronics Society, pp.2065-2069, 2015
- 3. <u>K. Sato</u>, H. Takimoto, and Y. Mitsukura, "Color categorization properties and color sensation on monitor for color-vision deficient subjects and normal trichromat subjects", Proceedings of the IEEE International Conference on Systems, Man, and Cybernetics, pp.2424-2428, 2015
- 4. <u>K. Sato</u>, H. Takimoto, and Y. Mitsukura, "Color naming properties and color impression of subjects with deficient color-vision at different brightness levels", In Abstract book of the 23rd Symposium of the International Colour Vision Society, p.110, July, Sendai, Japan, 2015
- 5. <u>K. Sato</u>, M. Oda, `The Effect of Color and Shape on Aesthetic Evaluation of Colored Shape", In Proc. of 2013 IEEE RO-MAN: The 22nd International Symposium on Robot and Human Interactive Communication, pp.478-483, August, Gyeongiu, Korea, 2013
- 6. <u>K. Sato</u>, Y. Mitsukura, "Analysis of Interaction between Image and Music focused on Physical features", In Proc. of SICE Annual Conference 2012, pp.2179-2184, August, Akita, Japan, 2012
- 7. <u>K. Sato</u>, Y. Mitsukura, `Effects of Music on Image Impression: Analysis based on Physical Features of Image and Music'', In Proc. of 18th Korea-Japan Joint Workshop on Frontiers of Computer Vision, pp.24-28, February, Kawasaki, Japan, 2012
- 8. <u>K. Sato</u>, Y. Mitsukura, ``Analysis of the Subjective Impression on Combinations of Image and Music", In Proc. of 2011 International Symposium Nonlinear Theory and its Applications, pp.294-297, September, Kobe, Japan, 2011
- 9. <u>K. Sato</u>, Y. Mitsukura, `Effects of Music on Image Impression and Relationship between Impression and Physical Feature', In Proc. of The 4th International Conference on Human System Interaction, pp.369-373, May, Yokohama, Japan, 2011
- 10. <u>K. Sato</u>, Y. Mitsukura, "Music Effects Analysis for Image Impression: The Relation between Physical Feature and Kansei Information", In Proc. of The 8th edition of France-Japan and 6th Europe-Asia Congress on Mechatronics, pp.492-496, November, Yokohama, Japan, 2010
- 11. <u>K. Sato</u>, Y. Mitsukura, "The Analysis of Individual Differences in Impression of 2 Color Combinations", In Proc. of 2010 RISP International Workshop on NCSP, pp.285-288, March, Hawai, 2010
- 12. <u>K. Sato</u>, Y. Mitsukura, "Classification and Analysis of 2-Color Impression Focusing Individual Differences", In Proc. of The 11th International Workshop on Advanced Motion Control, pp.246-251, March, Nagaoka, Japan, 2010
- 13. Y. Fukada, <u>K. Sato</u>, Y. Mitsukura, and M. Fukumi, ``A Design of the Mapping Method of Color and Kansei'', In Proc. of ICCAS'2007, pp.2158-p.2161, October, Seoul, Korea, 2007
- 14. <u>K. Sato</u>, Y. Mitsukura, and M. Fukumi, "Judgment of Human Characteristics based on Color Impression", In Proc. of MJISAT 2007, November, Kuala Lumpur, Malaysia, 2007
- 15. Y. Fukada, <u>K. Sato</u>, Y. Mitsukura, and M. Fukumi, `The Extraction of the Coloration Pattern for Personal Room Design'', In Proc. of MJISAT 2007, November, Kuala Lumpur, Malaysia, 2007
- 16. Y. Fukada, K. Sato, Y. Mitsukura, and M. Fukumi, "A Design of the Mapping Method of Color

- and Kansei", In Proc. of 2007 RISP International Workshop on Nonlinear Circuits and Signal Processing, pp.73-76, Shanghai, China, March, 2007
- 17. <u>K. Sato</u>, Y. Mitsukura, and M. Fukumi, "Designing of the Color KANSEI Information Map Considering the Individual Characteristic by Using Multivariable Analysis", In Proc. of SICE ICASE International Joint Conference, pp.3706-3710, October, Busan, Korea, 2006
- 18. <u>K. Sato</u>, Y. Mitsukura, and M. Fukumi, ``A Kansei Extraction Method from the Individual Characteristics by Using the Color Chart'', In Proc. of 2006 RISP International Workshop on NCSP, pp.142-145, March, Hawai, 2006
- 19. <u>K. Sato</u>, Y. Mitsukura, and M. Fukumi, `Emotional Extraction System by Using the Color Combination', In Proc. of 9th International Conference on KES, Part II, pp.258-262, September, Melbourne, Australia, 2005
- 20. <u>K. Sato</u>, Y. Mitsukura, and M. Fukumi, `Designing the KANSEI information System Using the Color Coordination'', In Proc. of SICE Annual Conference, pp.141-144, August, Okayama, Japan, 2005
- 21. <u>K. Sato</u>, M. Kimura, Y. Mitsukura, and M. Fukumi, `The Feeling Classification by the Color based on KANSEI Information Processing', In Proc. of 2005 RISP International Workshop on NCSP, pp.860-863, March, Hawai, 2005