

齋木 潤 (京都大学人間・環境学研究科教授)

(a) 国際誌論文

(注) 各論文の掲載年のインパクトファクターを $IF=x.x$ というように記載した。掲載年のインパクトファクターが不明のものは適切な年度の値を記した(カッコ内に引用年度を記載)。

- * (19) Takahama, S., Miyauchi, S., & Saiki, J. (2010). Neural basis for dynamic updating of object representation in visual working memory. *NeuroImage*, 49, 3394–3403. $IF=5.694$ (2008)
- (18) Saiki, J. (2009). Functional roles of memory for feature–location binding in event perception: Investigation with spatiotemporal visual search. *Visual Cognition*, 17, 212–231. $IF=2.095$ (2008)
- (17) Saiki, J., & Miyatsuji, H. (2009). Estimated capacity of object files in visual short-term memory is not improved by retrieval cueing. *Journal of Vision*, 9(3):16, 1–15. $IF=2.950$ (2008)
- * (16) Saiki, J. (2008). Stimulus-driven mechanisms underlying visual search asymmetry revealed by classification image analyses. *Journal of Vision*, 8(4):30, 1–19. $IF=2.950$
- (15) Takahashi, K., Saiki, J., & Watanabe, K. (2008). Realignment of temporal simultaneity between vision and touch. *NeuroReport*, 19, 319–322. $IF=1.904$
- (14) Saiki, J., & Miyatsuji, H. (2007). Feature binding in visual working memory evaluated by type–identification paradigm. *Cognition*, 102, 49–83. $IF=3.831$
- * (13) DeBrecht, M., & Saiki, J. (2006). Neural network implementation of saliency map. *Neural Networks*, 19, 1467–1474. $IF=2.000$
- (12) Koike, T., & Saiki, J. (2006). Stochastic saliency-based search model for search asymmetry with uncertain targets. *Neurocomputing*, 69, 2112–2126. $IF=0.860$
- (11) Saiki, J., Koike, T., Takahashi, K., & Inoue, T. (2005). Visual search asymmetry with uncertain targets. *Journal of Experimental Psychology: Human Perception and Performance*, 31, 1274–1287. $IF=2.883$
- (10) Imaruoka, T., Saiki, J., & Miyauchi, S. (2005). Maintaining coherence of dynamic objects requires coordination of neural systems extended from anterior frontal to posterior parietal brain cortices. *NeuroImage*, 26, 277–284. $IF=5.288$
- (9) Nagai, M., & Saiki, J. (2005). Illusory motion and representational momentum. *Perception & Psychophysics*, 67, 855–866. $IF=1.726$
- (8) Saiki, J. (2003). Effects of modally completed surfaces on change detection.

Visual Cognition, 10, 651–681. IF=1.5

(7) Saiki, J. (2003). Spatiotemporal characteristics of dynamic feature binding in visual working memory. *Vision Research*, 43, 2107–2123. IF=1.958

* (6) Saiki, J. (2003). Feature binding in object-file representations of multiple moving items. *Journal of Vision*, 3, 6–21. IF=3.469 (2005, それ以前は報告無し)

(5) Saiki, J. (2000). Occlusion, symmetry, and object-based attention: Comment on Behrmann, Zemel, and Mozer (1998). *Journal of Experimental Psychology: Human Perception and Performance*, 26, 424–433. IF=2.247

(4) Saiki, J., & Hummel, J. E. (1998). Connectedness and part-relation integration in shape category learning. *Memory and Cognition*, 26, 1138–1156. IF=1.937

(3) Saiki, J. (1998). The role of structural consistency between categories and attributes in hierarchical category learning. *Japanese Psychological Research*, 40, 144–155. IF=0.250

* (2) Saiki, J., & Hummel, J. E. (1998). Connectedness and the integration of parts with relations in shape perception. *Journal of Experimental Psychology: Human Perception and Performance*, 24, 227–251. IF=2.406

(1) Saiki, J., & Hummel, J. E. (1996). Attribute conjunctions and the part configuration advantage in object category learning. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 22, 1002–1019. IF=2.564

(b) 外国語による著書

(6) Saiki, J., Koike, T., & DeBrecht, M. (2008). Saliency map models for stimulus-driven mechanisms in visual search: Neural and functional accounts. (pp. 527–530) In R. Wang, F. Gu, & E. Shen (Eds.) *Advances in Cognitive Neurodynamics*. Springer-Verlag.

(5) Saiki, J. (2008). Multiple object permanence tracking: Maintenance, retrieval, and transformation of dynamic object representations. (pp. 243–264) In C. Rossi (Ed.) *Brain, Vision, and AI*. In-Teh.

(4) Saiki, J. (2007). Representation of objects and scenes in visual working memory in human brain. (pp. 103–119) In S. Funahashi (Ed.) *Representation and Brain*. Springer-Verlag.

(3) Saiki, J. (2007). Feature binding in visual working memory. (pp. 173–185) In N. Osaka, I. Rentschler, & I. Biederman (Eds.) *Object Recognition, Attention & Action*. Springer-Verlag.

(2) Saiki, J. & Miyatsuji, H. (2005). Limitation of maintenance of feature-bound objects in visual working memory. *Lecture Notes in Computer Sciences*, 3704, 215–224.

(1) Saiki, J. (2002). Multiple-object permanence tracking: Limitation in maintenance and transformation of perceptual objects. In J. Hyun, D. Munoz, W. Heide & R. Radach (Eds.). *The Brain's Eye: Neurobiological and Clinical Aspects of Oculomotor Research* (Progress in Brain Research, Vol. 140) (pp.133–148). Elsevier Science.

(c) 国際学会・海外学会での発表・講演等

(86) Kanazu, M., Yamamoto, H., Sawamoto, N., Fukuyama, H., & Saiki, J. (2009). Individual-based fMRI analysis of visual short-term memory mechanism in human intraparietal sulcus. Paper presented at the 39th Annual Meeting of the Society for Neuroscience, October, Chicago, IL.

(85) Kanazu, M., Yamamoto, H., Sawamoto, N., Fukuyama, H., & Saiki, J. (2009). fMRI analysis of retinotopy and visual short-term memory function in human intraparietal sulcus. Paper presented at the 32nd Annual Meeting of the Japan Neuroscience Society, September, Nagoya, Japan.

(84) Yamashiro, H., Yamamoto, H., Saiki, J., Mano, H., Umeda, M., & Tanaka, C. (2009). Neural correlates of intersubject variability of continuous flash suppression. Paper presented at the 32nd Annual Meeting of the Japan Neuroscience Society, September, Nagoya, Japan.

(83) Banno, H., & Saiki, J. (2009). Different learning strategies in intra- and inter-modal 3-D object recognition tasks revealed by eye movements. Paper Presented at Vision Sciences Society Meeting, May, Naples, FL.

(82) Ueda, Y., & Saiki, J. (2009). Different learning strategies in intra- and inter-modal 3-D object recognition tasks revealed by eye movements. Paper Presented at Vision Sciences Society Meeting, May, Naples, FL.

(81) Saiki, J., & Holcombe, A. O. (2009). Surface-based, unpaired feature representations mediate detection of change to feature pairings. Paper Presented at Vision Sciences Society Meeting, May, Naples, FL.

(80) Ban, H., Yamamoto, H., & Saiki, J. (2008). Inverse-retinotopic Morphing and Analyzing Method of fMRI Activity in Human V1: an fMRI study. 2nd Brain & Mind Research in the Asia/Pacific Symposium. Cereation Theatre, Biopolis, Singapore (abstract available in the Conference Proceedings).

(79) Ueda, Y., & Saiki, J. (2008). Different fixation distribution associated with

strategies for intra- and inter-modal 3-D object recognition. Poster presented at 49th Annual Meeting of Psychonomic Society, November, Chicago.

(78) Ueda, Y., & Saiki, J. (2008). Different learning strategies in intra- and inter-modal 3-D object recognition tasks revealed by eye movements. Poster presented at 9th of International Multisensory Research Forum, Hamburg.

(77) Saiki, J., & Holcombe, A. O. (2008). Surface-based, unpaired feature representations mediate detection of change to feature pairings. Paper Presented at Vision Sciences Society Meeting, May, Naples, FL.

(76) Saiki, J., Koike, T., & DeBrecht, M. (2007). Saliency map models for stimulus-driven mechanism in visual search: Neural and functional accounts. Invited Symposium at International Conference on Cognitive Neurodynamics 2007, November, Shanghai, China.

(75) Yamashiro, H., Yamamoto, H., Saiki, J., Mano, H., Umeda, M., & Tanaka, C. (2007). Retinotopic responses to visible and invisible stimulus in human early visual areas during continuous flash suppression. Society for Neuroscience 37th Annual Meeting, San Diego, Program No. 201.20. 2007 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2007. Online.

(74) Saiki, J. (2007). Visual cognition in multiple object environments. Invited talk at School of Psychology, University of Sydney, August, Sydney, Australia.

(73) Saiki, J. (2007). Visual cognition in multiple object environments. Invited talk at Department of Psychology, University of New South Wales, August, Sydney, Australia.

(72) Kondo, A., & Saiki, J. (2007). Single-probe advantage in standard change detection task does not reflect memory for feature binding. Poster Presented at Vision Sciences Society Meeting, May, Sarasota, FL.

(71) Saiki, J., & Miyatsuji, H. (2007). Binding deficit in visual short-term memory reflects maintenance, not retrieval Poster Presented at Vision Sciences Society Meeting, May, Sarasota, FL.

(70) Ueda, Y., & Saiki, J. (2006) Can human transfer an object's representation across modalities? Poster presented at 47th Annual Meeting of the Psychonomic Society, November, Houston, TX.

(69) Saiki, J. (2006). What are tracked with dynamic multiple objects? Paper presented at European Conference on Visual Perception, August, St. Petersburg, Russia.

(68) Saiki, J. (2006). Stimulus-driven mechanism of search asymmetry revealed by classification image analysis of singleton search. Paper presented at 4th Asian Conference on Vision, July, Matue, Japan.

- (67) Hidaka, S., Saiki, J., & Smith, L. B. (2006). Semantic packing as a core mechanism of category coherence, fast Mapping and basic level category. Proceedings of The Twenty-eighth Annual Conference of the Cognitive Science Society, 1500–1505, July, Vancouver, Canada.
- (66) Saiki, J., & Miyatsuji, H. (2006). Task dependent effects of retrieval on capacity estimation in object visual working memory. Poster presented at International Conference on Memory 4, July, Sydney, Australia.
- (65) Hidaka, S., & Saiki, J. (2006). Feature discovery in object individuation. Poster presented at The Fifth International Conference on Development and Learning, June, Bloomington, IN.
- (64) Takahashi, K., & Saiki, J. (2006). Illusory spatial perception induced by the temporal discrepancy between modalities in dynamic vision-haptics integration. Poster presented at The 7th International Multisensory Research Forum, June, Dublin, Ireland.
- (63) Takahama, S., Misaki, M., Miyauchi, S., & Saiki, J. (2006). Functional connectivity within the neural system during maintenance period in visual working memory task. Poster presented at Vision Sciences Society, May, Sarasota, FL.
- (62) Saiki, J. (2006). Stimulus-driven mechanism of search asymmetry revealed by classification image analysis of singleton search. Poster presented at Vision Sciences Society, May, Sarasota, FL.
- (61) Hidaka, S., Saiki, J., & Smith, L. B. (2006). Semantic packing: an account for category coherence. The Seventh International Conference on Cognitive Modelling, 130–135, April, Trieste Italy.
- (60) Takahama, S., Saiki, J., Misaki, M., & Miyauchi, S (2005). The necessity of feature–location binding activates specific brain regions in visual working memory task: an event-related fMRI study. Poster presented at Society for Neuroscience 35th Annual Meeting, November, Washington, DC.
- (59) Washino, H., & Saiki, J. (2005). Correlating Adjacent Local Texture Elements to Recognize Natural Scenes. Poster Presented at Psychonomic Society Annual Meeting, November, Toronto, Canada.
- (58) Saiki, J., & Miyatsuji, H. (2005). Limitation of maintenance of feature-bound objects in visual working memory. Paper presented at BVAI 2005, October, Naples, Italy.
- (57) Saiki, J. (2005). Selective and distributed attention and memory in visual cognition. Invited talk at Department of Psychology, University of Illinois, Urbana-Champaign, September, Urbana-Champaign, IL.

- (56) Hidaka, S., & Saiki, J. (2005). Prototype-specific learning for children's vocabulary. Proceedings of The Fourth IEEE International Conference on Development and Learning, ICDL05-05, 201, July, Osaka, Japan.
- (55) Saiki, J. (2005). Perception and memory in visual cognition. Invited talk at Department of Psychology, Yale University, May, New Haven, CT.
- (54) Takahashi, K., & Saiki, J. (2005). Combining multi-modal information of a deformation of an object. Poster presented at Vision Sciences Society, May, Sarasota, FL.
- (53) Takahama, S., Kumada, T., & Saiki, J. (2005). Perception of other's action influences performance in Simon task. Poster presented at Vision Sciences Society, May, Sarasota, FL.
- (52) Koike, T., & Saiki, J. (2005). Multiplicative visual attention model can account for attentional modulation on STA power spectrum. Poster presented at Vision Sciences Society, May, Sarasota, FL.
- (51) Saiki, J. (2005). Feature underlying visual search asymmetry revealed by classification images. Paper presented at Vision Sciences Society, May, Sarasota, FL.
- (50) Hidaka, S., & Saiki, J. (2004). A connectionist account of ontological boundary shifting. Proceedings of the 11th International Conference on Neural Information Processing, (pp. 282-287), November, Calcutta, India.
- (49) Hidaka, S., & Saiki, J. (2004). A mechanism of ontological boundary shifting. Proceedings of The Twenty Sixth Annual Meeting of the Cognitive Science Society, (pp. 565-570), August, Chicago, USA.
- (48) Saiki, J., & Miyatsuji, H., (2004). Limitation in maintenance of multiple object representations revealed by cuing effects. Poster Presented at European Conference on Visual Perception, August, Budapest, Hungary.
- (47) Saiki, J. (2004). Feature binding in visual working memory. Invited Talk presented at International Symposium on Object Recognition, August, Kyoto, Japan.
- (46) Imaruoka, T., Saiki, J., & Miyauchi, S. (2004) Prefrontal and frontoparietal systems contribute to object representation on visual working memory. Poster presented at 10th Annual Meeting of the Organization for Human Brain Mapping, June, Budapest, Hungary.
- (45) Saiki, J., & Miyatsuji, H., (2004). The role of attention in maintenance of feature binding in visual working memory. Paper Presented at Vision Sciences Society Meeting, May, Sarasota, FL.
- (44) Imaruoka, T., Saiki, J., & Miyauchi, S. (2004) The maintenance of a coherent

object activates the right anterior prefrontal area. Poster presented at Cognitive Neuroscience Society Annual Meeting. April, San Francisco, USA.

(43) Saiki, J. (2004). Interaction of perception and memory in understanding dynamic visual events. Invited talk at Department of Psychology, March, Indiana University.

(42) Koike, T., & Saiki, J. (2004). Biased competition model can account for both rate-based and time-based attentional modulation. Poster presented at International Symposium on Emergent Mechanisms of Communication in the Brain, March, Awaji, JAPAN.

(41) Imaruoka, T., Saiki, J., & Miyauchi, S. (2003) Neural correlates of the maintenance of the integrated representation of an object. Poster presented at Self, Cognition, and Emotion, Kyoto University International Symposium. December, Ann Arbor, USA.

(40) Saiki, J. (2003). Memory and attention in perception of dynamic visual events. Invited Talk presented at Self, Cognition, and Emotion, Kyoto University International Symposium. December, Ann Arbor, MI.

(39) Saiki, J., Takahashi, K., & Koike, T. (2003). Search asymmetry in singleton search tasks. Abstracts for the Psychonomic Society, 8, 119. November, Vancouver, Canada.

(38) Saiki, J. (2003). Memory for feature binding in understanding dynamic visual events. Invited Talk presented at International Symposium on Change Blindness, October, Wako, Japan.

(37) Koike, T., & Saiki, J. (2003). Bottom-up mechanism for spatial visual attention can explain search asymmetries and triple conjunction search. Proceedings of the 3rd International Conference on Cognitive Science, (pp. 93-98), July, Sydney, Australia.

(36) Saiki, J. (2003). Interaction of visual memory and visual attention in maintaining feature bindings of multiple objects. Proceedings of the 3rd International Conference on Cognitive Science, (pp. 158-163), July, Sydney, Australia.

(35) Saiki, J. (2003). Perception and memory in a spatiotemporal visual search. Poster Presented at Vision Sciences Society Meeting, May, Sarasota, FL.

(34) Koike, T., & Saiki, J. (2002). Stochastic guided search model for search asymmetries in visual search tasks. Proceedings of the 2nd Workshop on Biologically Motivated Computer Vision (pp. 408-417). November, Tubingen, Germany.

(33) Nagai, M., & Saiki, J. (2002). Representational momentum for a target not pursued by eye movements. Abstracts for the Psychonomic Society, 7, 51.

(32) Saiki, J. (2002). Formation of subjective surfaces facilitates change detection in a flicker paradigm. Abstracts for the Psychonomic Society, 7, 67.

- (31) Saiki, J. (2002). Coordination of perception and memory in visual cognition. Invited Talk presented at 2nd International Symposium on Integrative Use of Internal Knowledge and External Information in Human Cognition, Kyoto, Japan.
- (30) Nagai, M., & Saiki, J. (2002). Representational momentum is not affected by induced motion. Paper presented at International Workshop on Attention and Cognition, October, Kyoto, Japan.
- (29) Nagai, M., & Saiki, J. (2002). Representational momentum was not affected by induced motion of a target. Poster presented at Conference on Visual Localization in Space-Time, August, Brighton, UK.
- (28) Nagai, M., & Saiki, J. (2002). Representational momentum with and without a non-target context. Poster presented at European Conference on Visual Perception (ECVP2002), August, Glasgow, UK.
- (27) Saiki, J. (2002). Motion severely reduces capacity and life of object visual working memory. Poster Presented at Vision Sciences Society Meeting, May, Sarasota, FL.
- (26) Koike, T., & Saiki, J. (2001). A pulsed neural network model for attentional shifts without external inhibition. Proceedings of the 8th International Conference on Neural Information Processing, (pp. 227-231). November, Shanghai, China.
- (25) Nagai, M., & Saiki, J. (2001). Direction of forward memory displacement is different from perceived motion direction. Abstracts for the Psychonomic Society, 6, 65. November, Orlando, FL.
- (24) Saiki, J. (2001). Episodic representations of multiple objects in a predictable dynamic situation. Proceedings of the 3rd International Conference on Cognitive Science, (pp. 260-264), August, Beijing, China.
- (23) Saiki, J. (2001). Change blindness with only three colored disks: Severe limitation of maintenance of perceptual objects in a dynamic situation. Paper presented at the 11th European Conference on Movements, August, Turku, Finland.
- (22) Saiki, J. (2001). Maintenance and transformation of feature conjunctions in visual working memory in a dynamic situation. Poster Presented at Vision Sciences Society Meeting, May, Sarasota, FL.
- (21) Saiki, J. (2000). Visual short-term memory of color-location conjunction in a dynamic situation. Abstracts for the Psychonomic Society, 5, 62. November, New Orleans, LA.
- (20) Saiki, J. (2000). Episodic representations as binding of internal and external information. Proceedings of the First International Symposium on Integrative Use Internal Knowledge and External Information in Human Cognition, (pp. 83-91),

September, Kyoto, Japan.

(19) Saiki, J. (2000). Visual short-term memory of color-location conjunction in a dynamic situation. International Congress of Psychology, July, Stockholm, Sweden.

(18) Saiki, J. (2000). Three smoothly moving object files cannot survive a 120 ms occlusion. *Investigative Ophthalmology & Visual Science*, 41(4), S796. Fort Lauderdale, FL.

(17) Saiki, J. (1999). Feature integration in a dynamic multidimensional situation. *Abstracts for the Psychonomic Society*, 4, 62. November, Los Angeles, CA.

(16) Endo, N., Saiki, J., & Saito, H. (1999). Size Invariance in Implicit Coding of Novel Shapes without Focused Attention. *Proceedings of the 2nd International Conference on Cognitive Science and the 16th Annual Meeting of the Japanese Cognitive Science Society Joint Conference*, (pp. 1072-1075), July, Tokyo, Japan.

(15) Saiki, J. (1999). Dynamic linking in visual working memory: psychological data and a computational model. *Proceedings of the 2nd International Conference on Cognitive Science and the 16th Annual Meeting of the Japanese Cognitive Science Society Joint Conference*, (pp. 125-130), July, Tokyo, Japan.

(14) Saiki, J. (1999). Relation blindness? Difficulty in detecting violation of spatial relations in regular rotations of a triangular pattern. *Investigative Ophthalmology & Visual Science*, 41(4), S796. Fort Lauderdale, FL.

(13) Saiki, J. (1998). Uniform connectedness, simple topological structure, and object-based attention. *Selection and Integration of visual Cognition: Proceeding of the International Workshop on Visual Cognition*, (pp. 73-85), Tukuba, Japan.

(12) Saiki, J. (1998). Binding with and without attention: A neural network model for computation of spatial relations in object perception. *Proceedings of the 5th international conference on neural information processing* (pp. 379-382), October, Kitakyushu, Japan.

(11) Saiki, J. (1998). Object-based change detection in multi-element flicker displays. *Abstracts for the Psychonomic Society*, 3, 47. November, Dallas, TX.

(10) Saiki, J. (1998). Uniform connectedness and topological structure in object-based attentional selection. *Perception*, 27, supplement, 67, poster presented at ECVF 98, Oxford, England.

(9) Saiki, J. (1998). A neural network model for computation of object-based spatial relations. Poster presented at 2nd International Conference on Cognitive and Neural Systems, Boston, MA.

(8) Saiki, J., & Endo, N. (1998). Size invariance in implicit coding of ignored novel objects: Evidence from negative priming paradigm. Poster presented at Tukuba

International Conference on Memory. Tukuba, Japan.

(7) Saiki, J. (1997). Object-based detour of visual attention. Abstracts for the Psychonomic Society, 2, 26. November, Philadelphia, PA.

(6) Saiki, J., & Hummel, J. E. (1996). Spatial relations are less orientation sensitive in connected parts than separated parts. Paper presented at 8th annual convention of American Psychological Society. San Francisco, CA.

(5) Saiki, J., & Hummel, J. E. (1995). Connectedness and integration of parts with spatial relations. Paper presented at 2nd conference on object perception and memory. Los Angeles, CA.

(4) Cheng, P. W., & Saiki, J. (1994). Basic-level categories are created by causal theories. Paper presented at 35th Annual meeting of the Psychonomic Society. St. Louis, MO.

(3) Saiki, J., & Hummel, J. E. (1994). Connectedness facilitates the use of shape/relation conjunctions in object categorization. Poster presented at 6th Annual convention of American Psychological Society. Washington, DC.

(2) Saiki, J., & Hummel, J. E. (1993). Selective processing of feature conjunctions in classification learning. Poster presented at 34th Annual meeting of the Psychonomic Society. Washington, DC.

(1) Hummel, J. E., & Saiki, J. (1993). Rapid unsupervised learning of object structural descriptions. Proceeding of the 15th Annual conference of the Cognitive Science Society. Boulder, CO.