

Program

Saturday, July 19 (Day 1)

9 : 35 – 9 : 45 **Opening remarks**

Kagawa International Conference Hall
Satoshi Shioiri
(Tohoku University, Japan)

9 : 45 – 10 : 45 **Keynote Lecture 1**

Artificial retina and visual rehabilitation

Takashi Fujikado
(Osaka University, Japan)
Moderator: Keiji Uchikawa
(Tokyo Institute of Technology, Japan)

10 : 45 – 12 : 15 **Poster 1A** (Odd Numbers)

Small Hall 2

12 : 15 – 13 : 15 **Lunch time seminar 1**

Conference Room 61

13 : 30 – 15 : 30 **Talk 1A Visual Cognition**

Kagawa International Conference Hall
Moderators: Chien-Chung Chen¹, Makoto Ichikawa²
(¹National Taiwan University, Taiwan, ²Chiba University, Japan)

13 : 30 O1A-1 Two distinct mechanisms underlying facial expression perception

Chien-Chung Chen, Shin-Yin Sheu
(National Taiwan University, Taiwan)

13 : 45 O1A-2 Seeing objects as face enhances object detection

Kohske Takahashi, Katsumi Watanabe
(The University of Tokyo, Japan)

14 : 00 O1A-3 Holistic processing in visual expertise acquisition: An inverted U-shape function in the development of chinese character recognition

Ricky Van Yip Tso, Terry Kit-fong Au, Janet Hui-wen Hsiao
(The University of Hong Kong, Hong Kong)

14 : 15 O1A-4 Gaze constancy in adults and infants

Yumiko Otsuka¹, Isabelle Mareschal², Hiroko Ichikawa³, So Kanazawa⁴,
Masami K Yamaguchi³, Colin W G Clifford¹
(¹UNSW Australia, Australia, ²Queen Mary University of London, UK,
³Chuo University, Japan, ⁴Japan Women's University, Japan)

14 : 30 O1A-5 The composite effect in static and dynamic familiar face perception

Simone Favelle¹, Alanna Tobin¹, Daniel Piepers², Rachel Robbins², Darren Burke³
(¹University of Wollongong, Australia, ²University of Western Sydney, Australia,
³University of Newcastle, Australia)

14 : 45 O1A-6 Human variation in autistic traits predicts the perception of direct gaze for males, but not for females

Daisuke Matsuyoshi¹, Kana Kuraguchi², Yumiko Tanaka¹, Seina Uchida¹,
Hiroshi Ashida², Katsumi Watanabe¹
(¹The University of Tokyo, Japan, ²Kyoto University, Japan)

15 : 00 O1A-7 Accurate computation of average attractiveness of faces

Anna Xiao Luo¹, Guomei Zhou²
(¹The University of Hong Kong, Hong Kong, ²Sun Yat-sen University, China)

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- 15 : 15 O1A-8 Effects of viewing time on rightward bias in aesthetic impression formation in viewing pictures
Makoto Ichikawa, Airi Motoki
(Chiba University, Japan)

13 : 30 – 15 : 30 **Talk 1B *Color and Light*** *Conference Room 61*
Moderators: Sophie Wuerger¹, Keizo Shinomori²
(¹University of Liverpool, UK, ²Kochi University of Technology, Japan)

- 13 : 30 O1B-1 Aging effects on chromatic discrimination measured by the Cambridge Colour Test
Keizo Shinomori¹, Athanasios Panorgias², John S Werner²
(¹Kochi University of Technology, Japan, ²University of California Davis, USA)

- 13 : 45 O1B-2 Color terms and basic color categories in Mandarin Chinese characters
Vincent C Sun¹, Chien-Chung Chen²
(¹Chinese Culture University, Taiwan, ²National Taiwan University, Taiwan)

- 14 : 00 O1B-3 Effects of luminance contrast on the color selective responses in macaque V4 and inferior temporal cortex
Tomoyuki Namima^{1,2}, Masaharu Yasuda³, Taku Banno⁴, Gouki Okazawa¹, Hidehiko Komatsu¹
(¹National Institute for Physiological Sciences, Japan,
²The Graduate University for Advanced Studies (SOKENDAI), Japan,
³National Eye Institute, NIH, USA, ⁴National Institute of Neuroscience, Japan)

- 14 : 15 O1B-4 Color constancy of color deficient observers under illuminant changes on confusion lines and off confusion lines
Ruiqing Ma, Keizo Shinomori
(Kochi University of Technology, Japan)

- 14 : 30 O1B-5 Hue selectivity in human visual cortex studied by fMRI with a novel stimulation paradigm
Ichiro Kuriki¹, Pei Sun², Kenichi Ueno², Keiji Tanaka², Kang Cheng²
(¹Tohoku University, Japan, ²RIKEN Brain Science Institute, Japan)

- 14 : 45 O1B-6 Various double-pulse resolutions of color opponent channels
Lin Shi
(Kunming University of Science and Technology, China,
Yunnan Provincial Computer Application Key Laboratory, China)

- 15 : 00 O1B-7 Influence of glossiness and shape of surface on color constancy
Yoko Mizokami, Asuka Akahori, Hirohisa Yaguchi
(Chiba University, Japan)

- 15 : 15 O1B-8 Comparison of fMRI measurements in lateral geniculate nucleus (LGN) and primary visual cortex (V1) with visual deficits in glaucoma
Sophie Wuerger¹, Joanne Powell¹, Anshoo Choudhary¹, Laura Parkes²
(¹University of Liverpool, UK, ²University of Manchester, UK)

15 : 30 – 17 : 00 **Poster 1B** (Even Numbers) *Small Hall 2*

17 : 00 – 19 : 00 **Symposium 1A *Multi-modal Measurement of the Visual Cortex***
Kagawa International Conference Hall
Organizers: Kaoru Amano^{1,2}, Hiromasa Takemura^{3,4}
(¹National Institute of Information and Communications Technology (NICT), Japan,
²Osaka University, Japan, ³Stanford University, USA,
⁴Japan Society for the Promotion of Science (JSPS), Japan)

S1A-1 Human visual white matter pathway studied by diffusion MRI

Hiromasa Takemura^{1,2}

(¹Stanford University, USA,

² Japan Society for the Promotion of Science (JSPS), Japan)

S1A-2 Computational modeling of responses in human visual cortex

Jonathan Winawer

(New York University, USA)

S1A-3 Phenomenal consciousness created by decoded neurofeedback

Kaoru Amano^{1,2}

(¹National Institute of Information and Communications Technology (NICT), Japan,

²Osaka University, Japan)

S1A-4 The geometry of high-level visual representations

Nikolaus Kriegeskorte

(Medical Research Council, UK)

S1A-5 Relating neural representation and perception in primate V2

Corey Ziemba

(New York University, USA)

17 : 00 – 19 : 00 **Symposium 1B** *Model of Visual Attention and its Application*

Conference Room 61

Organizer: Satoshi Shioiri (Tohoku University, Japan)

S1B-1 Computational modeling of bottom-up and top-down visual attention

Laurent Itti

(University of Southern California, USA)

S1B-2 Head direction information improves the accuracy of gaze estimation

Ryoichi Nakashima, Yu Fang, Akinori Hiratani, Kazumichi Matsumiya,

Ichiro Kuriki, Satoshi Shioiri

(Tohoku University, Japan)

S1B-3 Learning to predict gaze with the characteristics of visual fields and reaction gaps

Ryo Yonetani

(The University of Tokyo, Japan)

S1B-4 Activity recognition for the mind: Tracking reading habits

Kai Kunze

(Osaka Prefecture University, Japan)

S1B-5 Driver gaze behavior analysis focused on relationships with driving contexts

Takatsugu Hirayama

(Nagoya University, Japan)

Posters (July 19)

Color and Light

P1-1 A case of impaired color knowledge but spared color perception

Yuka Ohishi¹, Hikaru Nagasawa², Kazuyo Tanji¹, Naohiro Saito¹, Kyoko Suzuki¹

(¹Yamagata University Graduate School of Medicine, Japan,

²Yamagata Prefectural Central Hospital, Japan)

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- P1-2 Population responses in the macaque inferior temporal cortex encode perceptual gloss parameters
Akiko Nishio¹, Takeaki Shimokawa², Naokazu Goda^{1,3}, Hidehiko Komatsu^{1,3}
(¹National Institute for Physiological Sciences, Japan,
²ATR Neural Information Analysis Laboratories, Japan,
³The Graduate University for Advanced Studies (SOKENDAI), Japan)
- P1-3 Color discrimination of color vision defectives for monochromatic stimuli and natural image
Mitsuru Suzuki, Hirohisa Yaguchi, Yoko Mizokami
(Chiba University, Japan)
- P1-4 Are cast-shadows coarsely processed? Using cue-conflict stimuli to explore perceptual weightings
P George Lovell, Ken Scott-Brown
(Abertay University, UK)
- P1-5 Effect of object motion on perceiving a thick transparent object
Shohei Ueda¹, Yusuke Tani¹, Takehiro Nagai², Kowa Koida¹,
Shigeki Nakauchi¹, Michiteru Kitazaki¹
(¹Toyohashi University of Technology, Japan, ²Yamagata University, Japan)
- P1-6 Binocular color perception based on integration of unbalanced monocular color information
Takashi Mitsunaga, Yoko Mizokami, Hirohisa Yaguchi
(Chiba University, Japan)
- P1-7 A local display characterization method to improve calibration accuracies and to achieve quick chromaticity reproductions
Hiroshi Ban¹, Hiroyuki Yamashiro², Hiroki Yamamoto³
(¹Center for Information and Neural Networks (CiNet), Japan,
²Aino University, Japan, ³Kyoto University, Japan)
- P1-8 Conditions of a multi-view autostereoscopic 3D display for high-quality glossiness reproduction
Yuichi Sakano, Hiroshi Ando
(National Institute of Information and Communications Technology (NICT), Japan;
Center for Information and Neural Networks (CiNet), Japan)
- P1-9 Practical color visibility evaluated by response time of search and selection rate in paired comparison
Toshihiro Toyota¹, Keizo Shinomori², Taka-aki Suzuki¹, Shigeki Nakauchi³
(¹Industrial Research Institute of Shizuoka Prefecture, Japan,
²Kochi University of Technology, Japan,
³Toyohashi University of Technology, Japan)
- P1-10 A colour vision test optimised for the clinical population
Caterina Ripamonti, Sarah Kalwarowsky, Marko Nardini
(UCL Institute of Ophthalmology, UK)
- P1-11 Local regions with normal brightness contribute more to color constancy
Yongjie Li¹, Shaobing Gao¹, Wangwang Han¹, Ruoxuan Li¹, Chaoyi Li^{1,2}
(¹University of Electronic Science and Technology of China, China,
²Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, China)

Spatio-temporal Vision

- P1-12 Contrast-dependent variations in the excitatory classical receptive field and suppressive non-classical receptive field of cat primary visual cortex
Ke Chen, Jiaojiao Yin, Chaoyi Li
(University of Electronic Sciences and Technology, China)
- P1-13 Crowding effect and reading performance among children with dyslexia in Klang Valley area
Indira Madhavan
(Universiti Kebangsaan Malaysia, Malaysia)
- P1-14 Binocular contrast interactions in iso-oriented surround suppression
Pi-Chun Huang¹, Chien-Chung Chen²
(¹National Cheng Kung University, Taiwan, ²National Taiwan University, Taiwan)
- P1-15 Directional perception of briefly presented motion-defined motion
Junji Yanagi, Makoto Ichikawa
(Chiba University, Japan)
- P1-16 Fluttering-heart illusion caused by coexistence of first- and second-order edges
Masahiro Suzuki, Kazuhisa Yanaka
(Kanagawa Institute of Technology, Japan)
- P1-17 A directional bias of apparent position shift of a moving element with a hard edge
Rumi Hisakata^{1,2}, Shin'ya Nishida²
(¹Japan Society for the Promotion of Science (JSPS), Japan,
²NTT Communication Science Laboratories, Japan)
- P1-18 Effect of display inclination on the vertical-horizontal illusion
Akiko Yasuoka, Masahiro Ishii
(Sapporo City University, Japan)
- P1-19 Illusory movement in depth-inverted, but otherwise photorealistic, Bas Relief art
Norman D Cook¹, Gianluca Sanvido², Ryu Satoh³, Takefumi Hayashi¹
(¹Kansai University, Japan, ²Japan Mechial Plannning, Co., Japan,
³Green Art Gallery, Japan)
- P1-20 Random-sampling leads to multiplicative noise in crowded displays
Carl Michael Gaspar, Wei Chen
(Hangzhou Normal University, China)
- P1-21 New simple geometrical illusion figure — Slightly bent thick line looks straight when thin straight line is added to it
Teluhiko Hilano
(Kanagawa Institute of Technology, Japan)
- P1-22 Functional architecture for “far” and “near” judgment in cat’s V1
Ling Wang¹, Zhengqiang Dai¹, Jiaojiao Yin¹, Chaoyi Li^{1,2}
(¹University of Electronic Science and Technology of China, China,
²Shanghai Institutes for Biological Sciences, China, Chinese Academy of Sciences, China)
- P1-23 Spatial summation organization of visual cortical neurons embedded in the pinwheel-like-orientation map
Xuemei Song¹, Chaoyi Li¹, Ming Li², Tao Xu³, Dewen Hu², Kaifu Yang³, Yongjie Li³
(¹ Shanghai Institutes for Biological Sciences, China, Chinese Academy of Sciences, China,
²National University of Defense Technology, China,
³University of Electronic Science and Technology of China, China)

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- P1-24 Effect of analytic observation on line length judgments of geometrical optical illusion stimulus
Ayane Murai, Ryuichi Yokota, Masahiro Ishii
(Sapporo City University, Japan)
- P1-25 Stereo-curvature aftereffects from multi-level adaptation
Pengfei Yan, Hiroaki Shigemasu
(Kochi University of Technology, Japan)
- P1-26 Improvement of sharpness by the addition of graininess
Xiazi Wan, Yuya Nakao, Naokazu Aoki, Hiroyuki Kobayashi
(Chiba University, Japan)
- P1-27 Accuracy and resolution differences in time perception between the central and peripheral visual field
Riku Asaoka, Jiro Gyoba
(Tohoku University, Japan)

Visual Recognition

- P1-28 Perception of shape from shadows in infancy
Kazuki Sato^{1,2}, So Kanazawa³, Masami K Yamaguchi¹
(¹Chuo University, Japan, ²Japan Society for the Promotion of Science (JSPS), Japan, ³Japan Women's University, Japan)
- P1-29 Reduced perceptual error in action observation induced by body ownership illusion
Shigeaki Nishina
(Honda Research Institute, Japan)
- P1-30 Perceptual narrowing toward adult faces in Japanese infants: a behavioral and a near-infrared spectroscopic study
Megumi Kobayashi^{1,2}, Viola Macchi Cassia³, So Kanazawa⁴,
Masami K Yamaguchi⁵, Ryusuke Kakigi¹
(¹National Institute for Physiological Sciences, Japan,
²Japan Society for the Promotion of Science (JSPS), Japan,
³University of Milano-Bicocca, Italy, ⁴Japan Women's University, Japan,
⁵Chuo University, Japan)
- P1-31 Relationship between timing of object category representation and the level of category abstraction in the human visual cortex
Masashi Sato, Yoichi Miyawaki
(The University of Electro-Communications, Japan)
- P1-32 Asymmetrical effects of smile and sad expressions on attractiveness
Ryuhei Ueda, Hiroshi Ashida, Kana Kuraguchi
(Kyoto University, Japan)
- P1-33 Reliability and interpretation of visually evoked single-trial peaks
Wei Chen, Carl Michael Gaspar
(Hangzhou Normal University, China)
- P1-34 The aftereffect of different mouth shapes in Korean language system
Chunmae Lee, Dayi Jung, Kyongmee Chung
(Yonsei University, Korea)

- P1-35 Degraded recognition of facial expressions in patients with Parkinson's Disease
Li-Chuan Hsu¹, Chia-Yao Lin¹, Chon-Haw Tsai², Yi-Min Tien³
(¹China Medical University, Taiwan, ²China Medical College Hospital, Taiwan,
³Chung Shan Medical University, Taiwan)

Visual Attention, Awareness and Cognition

- P1-36 The difference of visual ability between experts and novices in visual art
Yusuke Tani¹, Ryo Nishijima¹, Takehiro Nagai², Kowa Koida¹,
Michiteru Kitazaki¹, Shigeki Nakauchi¹
(¹Toyohashi University of Technology, Japan, ²Yamagata University, Japan)
- P1-37 The effects of a first person shooter game on cognitive task performance
Yasuhiro Seya, Hiroyuki Shinoda
(Ritsumeikan University, Japan)
- P1-38 Visual statistical learning of temporal structure in different hierarchical levels
Jihyang Jun, Sang Chul Chong
(Yonsei University, Korea)
- P1-39 Responsive extrastriate maps despite a V1 lesion and quarterfield blindness
Hiroshi Horiguchi¹, Brian A Wandell², Yaping Joyce Liao², Jonathan Winawer³
(¹Jikei University School of Medicine, Japan, ²Stanford University, USA,
³New York University, USA)
- P1-40 The effect of depth information on visual attention under monocular and stereopsis viewing:
An object substitution masking study
Kana Miyaji¹, Ken Kihara¹, Jun Shimamura², Yukinobu Taniguchi², Sakuichi Ohtsuka¹
(¹Kagoshima University, Japan, ²NTT Media Intelligence Laboratories, Japan)
- P1-41 The level of categorical knowledge affects visual search efficiency
Kanji Tanaka, Na Chen, Katsumi Watanabe
(The University of Tokyo, Japan)
- P1-42 Time course of interference by task-irrelevant distractors in the Stroop and Simon effects
Satoko Ohtuka, Reishi Kogure
(Saitama Institute of Technology, Japan)
- P1-43 Vection inhibition by adding semantic meanings to optic-flow stimuli
Masaki Ogawa, Takeharu Seno
(Kyushu University, Japan)
- P1-44 Cognitive processing of gaze and arrow in a flanker task
Huan Yu, Xueming Zhang
(Beijing Normal University, China)
- P1-45 Contrast effect on legibility of Thai letters presented on LED display
Kitirochana Rattanakasamsuk
(Rajamangala University of Technology, Thailand)
- P1-46 The effects of attentional concentration on dynamic characteristics of drift eye movements
Takeshi Kohama, Daisuke Noguchi, Sho Kikkawa, Hisashi Yoshida
(Kinki University, Japan)

Interactive Vision

P1-47 Measuring attention around the hand by using flash lag effect

Ryota Nishikawa, Kazumichi Matsumiya, Ichiro Kuriki, Satoshi Shioiri
(Tohoku University, Japan)

P1-48 Visual crowding distorts oculomotor space

Masahiko Terao, Ikuya Murakami
(The University of Tokyo, Japan)

P1-49 Effects of harmony between color and fragrance on work efficiency

Mei Yoneda, Kana Kuraguchi, Hiroshi Ashida
(Kyoto University, Japan)

P1-50 Guidance or interference? Augmented feedback benefits bimanual coordination even after removal

Shiau-Chuen Chiou, Erik Chihhung Chang
(National Central University, Taiwan)

P1-51 Orientation of the palms alters bistable visual motion perception

Godai Saito, Jiro Gyoba
(Tohoku University, Japan)

Sunday, July 20 (Day 2)

8 : 30 – 10 : 45 **Talk 2A** *Interactive Vision*

Kagawa International Conference Hall

Moderators: David P Crewther¹, Kazumichi Matsumiya²

(¹Swinburne University of Technology, Australia, ²Tohoku University, Japan)

8 : 30 O2A-1 The visuotopy of autistic tendency

David P Crewther

(Swinburne University of Technology, Australia)

8 : 45 O2A-2 Motor intention on a complex airplane piloting task is predicted by attentional modulation of visual brain areas

Daniel E Callan^{1,2,3}, Daniel Cassel^{3,4}, Cengiz Terzibas^{1,2}, Mario Gamez³, Hiroshi Ando^{1,2}

(¹Center for Information and Neural Networks (CiNet), Japan,

²National Institute of Information and Communications Technology (NICT), Japan,

³ATR Neural Information Analysis Laboratories, Japan, ⁴The Hospital for Sick Children, Canada)

9 : 00 O2A-3 Biased competition between vision and biomechanics in human walking

Ute Leonards, John Fennell, Charlotte Goodwin, Jeremy Burn

(University of Bristol, UK)

9 : 15 O2A-4 The critical delay for changing self-body sensations and self-view sensations

Seiya Kamiya, Takako Yoshida

(Tokyo Institute of Technology, Japan)

9 : 30 O2A-5 Attentive tracking of switching-in-depth moving objects in 3D space

Anis Ur Rehman, Akiko Matsumoto, Ken Kihara, Sakuichi Ohtsuka

(Kagoshima University, Japan)

9 : 45 O2A-6 The mirror illusion: Does proprioceptive drift go hand in hand with the sense of agency?

Daisuke Tajima¹, Tota Mizuno², Yuichiro Kume³, Takako Yoshida¹

(¹Tokyo Institute of Technology, Japan, ²The University of Electro-Communications, Japan,

³Tokyo Polytechnic University, Japan)

10 : 00 O2A-7 Multiple gaze saccades during unrestrained eye-head movement in visual search

Yu Fang¹, Ryoichi Nakashima^{1,2}, Kazumichi Matsumiya¹, Ichiro Kuriki¹, Satoshi Shioiri¹

(¹Tohoku University, Japan, ²Japan Science and Technology Agency (JST), Japan)

10 : 15 O2A-8 Motion aftereffect induced by actively moving one's own hand

Kazumichi Matsumiya, Satoshi Shioiri

(Tohoku University, Japan)

10 : 30 O2A-9 Visual search for self-controlled vs. non-controlled object

Hideyuki Kobayashi, Takako Yoshida

(Tokyo Institute of Technology, Japan)

8 : 30 – 10 : 45 **Talk 2B** *Mid-level Vision*

Conference Room 61

Moderators: Cees van Leeuwen¹, Takahiro Kawabe²

(¹Katholieke Universiteit Leuven, Belgium,

²NTT Communication Science Laboratories, Japan)

8 : 30 O2B-1 Electrophysiological responses to visual symmetry

Marco Bertamini, Alexis D J Makin

(University of Liverpool, UK)

Program July 20 (Day 2)

- 8 : 45 O2B-2 The law of proximity in new light
Cees van Leeuwen^{1,2,3}, Sergei Gepshtein^{3,4}, Aleksandra Zharikova¹, Ekaterina Levichkina^{3,5}
(¹Katholieke Universiteit Leuven, Belgium, ²Technische Universität Kaiserslautern, Germany,
³RIKEN Brain Science Institute, Japan, ⁴SALK Institute, USA,
⁵University of Melbourne, Australia)

- 9 : 00 O2B-3 Perceptual constancy and subjective/objective modes of perception
John O'Dea
(The University of Tokyo, Japan)

- 9 : 15 O2B-4 Relationship between brightness enhancement and self-luminosity of the glare illusion
Hideki Tamura, Shigeki Nakauchi, Kowa Koida
(Toyohashi University of Technology, Japan)

- 9 : 30 O2B-5 Shape and material from intensity gradient: A hypothesis
Masataka Sawayama, Shin'ya Nishida
(NTT Communication Science Laboratories, Japan)

- 9 : 45 O2B-6 The development of contrast sensitivity for gratings and natural images: revisiting the gold standard
Dave Ellemberg
(University of Montreal, Canada)

- 10 : 00 O2B-7 Image deformation as a perceptual cue to a transparent layer
Takahiro Kawabe, Kazushi Maruya, Shin'ya Nishida
(NTT Communication Science Laboratories, Japan)

- 10 : 15 O2B-8 A number of experiments on number
Nicholas E Scott-Samuel, Natasha Davies, Caitlin Molloy, Alan To
(University of Bristol, UK)

- 10 : 30 O2B-9 Optimal audiovisual integration of object appearance and impact sounds in human perception of materials
Waka Fujisaki¹, Naokazu Goda², Isamu Motoyoshi³, Hidehiko Komatsu², Shin'ya Nishida⁴
(¹National Institute of Advanced Industrial Science and Technology (AIST), Japan,
²National Institute for Physiological Sciences, Japan, ³The University of Tokyo, Japan,
⁴NTT Communication Science Laboratories, Japan)

- 10 : 45 – 12 : 15 **Poster 2A** (Odd Numbers) *Small Hall 2*

- 12 : 15 – 13 : 15 **Lunch time seminar 2** *Conference Room 61*

- 13 : 30 – 15 : 30 **Symposium 2A *Higher-order Mechanisms of Color Vision***
Kagawa International Conference Hall
Organizers: Yoko Mizokami¹, Takehiro Nakagai²
(¹Chiba University, Japan, ²Yamagata University, Japan)

- S2A-1 The enigma of unique hues
¹Qasim Zaidi, ¹Robert Ennis, ¹Lauren Wool, ¹Stanley Kombar, ¹Jose-Manuel Alonso,
²Bevil Conway, ²Galina Gagin, ²Kaitlin Bohon
(¹State University of New York, USA, ²Wellesley College, USA)

- S2A-2 Cortical processing of surface colour and translucency
Erin Goddard¹, Colin W G Clifford²
(¹Macquarie University, Australia, ²UNSW Australia, Australia)

S2A-3 Construction of a space perception needed for the color constancy
Chanprapha Phuangsuan
(Rajamangala University of Technology Thanyaburi, Thailand)

S2A-4 Impact of covariant luminance-color gradation on brightness perceptions
Kowa Koida
(Toyohashi University of Technology, Japan)

13 : 30 – 15 : 30 **Symposium 2B** *Advances in Neural Coding in Visual Cortex*

Conference Room 61

Organizer: Takanori Uka
(Juntendo University, Japan)

S2B-1 Adaptation maintains population homeostasis in primary visual cortex
Andrea Benucci
(RIKEN Brain Science Institute, Japan)

S2B-2 Neural mechanisms underlying motion-in-depth selectivity in macaque area MT
Takahisa M Sanada¹ and Gregory C DeAngelis²
(¹National Institute for Physiological Sciences, Japan,
²University of Rochester, USA)

S2B-3 Neural correlates of 3D spatial perception in parietal cortex
Ari Rosenberg
(Baylor College of Medicine, USA)

S2B-4 Spatial arrangement of neurons in monkey V1 and V4 according to their orientation selectivity:
A 2-photon calcium imaging study
Koji Ikezoe
(Osaka University, Japan)

S2B-5 Intensive and extensive recording of visual cortical activity by electrocorticography
Isao Hasegawa
(Niigata University, Japan)

15 : 30 – 17 : 00 **Poster 2B** (Even Numbers) *Small Hall 2*

17 : 00 – 19 : 00 **Symposium 2C** *Visual Perception of Object Qualities and Materials*

Kagawa International Conference Hall

Organizer: Shin'ya Nishida
(NTT Communication Science Laboratories, Japan)

S2C-1 Distinguishing shading and albedo when the two are correlated
Roland W Fleming
(University of Giessen, Germany)

S2C-2 Perception on time-dependent changes of materials: Freshness and aging estimations
Katsunori Okajima
(Yokohama National University, Japan)

S2C-3 Neural representation of materials of objects in human and monkey visual cortex
Naokazu Goda^{1,2}
(¹National Institute for Physiological Sciences, Japan,
²The Graduate University for Advanced Studies (SOKENDAI), Japan)

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S2C-4 Coupled computations of 3D shape, material properties, and the illumination field

Barton L Anderson
(The University of Sydney, Australia)

17 : 00 – 19 : 00 **Symposium 2D *Illusory Perceptions of Body Orientation and Self-motion in Real and Virtual Environments***

Conference Room 61

Organizer: Kenzo Sakurai
(Tohoku Gakuin University, Japan)

S2D-1 Illusory scene shearing during real and illusory self-rotations in roll

Stephen Palmisano¹, Robert S Allison², Ian P Howard²
(¹University of Wollongong, Australia, ²York University, Canada)

S2D-2 Various factors can modulate vection strength

Takeharu Seno
(Kyushu University, Japan)

S2D-3 Factors of inverted vection in depth

Kenzo Sakurai, Yasuhiko Saito
(Tohoku Gakuin University, Japan)

S2D-4 Tilted body or tilted world? A field study of verticality misperception on a moving mountain tram

Chia-huei Tseng¹, Hiu Mei Chow^{1,2}, Matt Oxner¹, Lothar Spillmann³
(¹University of Hong Kong, Hong Kong, ²University of Massachusetts Boston, USA, ³University of Freiburg, Germany)

S2D-5 Vestibular and neck proprioceptive contributions to the perceived vertical

Laurence Harris, Lindsey Fraser
(York University, Canada)

Posters (July 20)

Color and Light

P2-1 Recognition of illumination and object color changes on an object with specular reflection components

Takehiro Nagai, Shigeyuki Kaneko, Yuki Kawashima, Yasuki Yamauchi
(Yamagata University, Japan)

P2-2 Brightness induction similar to the surround modulation

Makiko Miyasaka, Katsuaki Sakata
(Joshi University of Art and Design, Japan)

P2-3 Colorimetry-free color management system for displays

Naoki Kurita, Hiroyuki Shinoda, Yasuhiro Seya
(Ritsumeikan University, Japan)

P2-4 Perceptual rivalry in afterimages

Hiroyuki Ito, Erika Tomimatsu
(Kyushu University, Japan)

P2-5 Spatial layout of a natural scene with no luminance information influences lightness perception

Kei Kanari, Hirohiko Kaneko
(Tokyo Institute of Technology, Japan)

- P2-6 Development of contrast dependent pattern discrimination in the macula during childhood
Li-Ting Tsai¹, Chien-Chung Chen¹, Yu-Chin Su², Chien-Te Wu¹, Kuo-Meng Liao³
(¹National Taiwan University, Taiwan, ²Taipei Tzu Chi Hospital, Taiwan, ³Taipei City Hospital, Taiwan)
- P2-7 Highly saturated color evoked human dorsal pathway: fMRI studies
Ippei Negishi, Keizo Shinomori
(Kochi University of Technology, Japan)
- P2-8 Adding blue or yellow sector onto Benham's top
Chiemi Miyata¹, Ken Kihara¹, Sakuichi Ohtsuka¹, Hiroshi Ono²
(¹Kagoshima University, Japan, ²York University, Canada)
- P2-9 Time course of color appearance change on mobile display under illuminance change
Hidenori Tanaka, Hirohisa Yaguchi, Yoko Mizokami
(Chiba University, Japan)
- P2-10 Measurement of color appearance with color category rating method
Yasuki Yamauchi¹, Yuhei Shoji¹, Tatsuya Tajima², Takehiro Nagai¹, Taiichiro Ishida²
(¹Yamagata University, Japan, ²Kyoto University, Japan)

Spatio-temporal Vision

- P2-11 Your eyes want to see the illusion: Directional asymmetry of eye movements increases illusory motion
Soyogu Matsushita^{1,2}, Shigeru Muramatsu¹, Akiyoshi Kitaoka¹
(¹Ritsumeikan University, Japan, ²Osaka University, Japan)
- P2-12 Effect of distribution of elements between front and back surfaces on perceived numerosity for a stereo-transparency stimulus
Saori Aida^{1,2}, Tsutomu Kusano¹, Koichi Shimono¹
(¹ Tokyo University of Marine Science and Technology, Japan, ²Japan Society for the Promotion of Science (JSPS), Japan)
- P2-13 Two distinct patterns of activity in early visual areas during binocular rivalry
Hiroyuki Yamashiro¹, Hiroki Yamamoto², Hiroaki Mano³, Masahiro Umeda³,
Toshihiro Higuchi³, Jun Saiki²
(¹Aino University, Japan, ²Kyoto University, Japan, ³Meiji University of Integrative Medicine, Japan)
- P2-14 Perceived speed of apparent motion in high-speed conditions
Yutaka Nakajima, Yutaka Sakaguchi
(The University of Electro-Communications, Japan)
- P2-15 Impaired speed estimation of overlapping moving objects
Kentaro Yamamoto, Katsumi Watanabe
(The University of Tokyo, Japan)
- P2-16 Motion illusion induced by color changes
Akiyoshi Kitaoka
(Ritsumeikan University, Japan)
- P2-17 The effect of color onvection
Megumi Yamaguchi, Yasuhiro Seya, Hiroyuki Shinoda
(Ritsumeikan University, Japan)

P2-18 What makes space-time interactions in human cognition asymmetrical?

Chizuru Take Homma, Hiroshi Ashida
(Kyoto University, Japan)

P2-19 Anisotropies in apparent displacements of a visual target during large-field visual motion stimulation

Wataru Teramoto, Hiromu Hoshiga
(Muroran Institute of Technology, Japan)

P2-20 A model of depth perception using relative motion velocity in motion parallax

Aya Shiraiwa¹, Takefumi Hayashi²
(¹Kwansei Gakuin University, Japan, ²Kansai University, Japan)

P2-21 Measurements of subjective length of filled duration determined by dynamic random dots

Erika Tomimatsu, Yoshitaka Nakajima, Hiroyuki Ito
(Kyushu University, Japan)

P2-22 Motion processing in retinotopic and spatiotopic coordinates at low light levels

Sanae Yoshimoto^{1,2}, Mariko Uchida-Ota¹, Tatsuto Takeuchi¹
(¹Japan Women's University, Japan, ²Japan Society for Promotion of Sciences (JSPS), Japan)

P2-23 The optimal density ratio for aesthetic judgment in symmetric patterns

Chia-Ching Wu¹, Chien-Chung Chen²
(¹Fo Guang University, Taiwan, ²National Taiwan University, Taiwan)

P2-24 Effects of horizontal vs. vertical presentations of two successive flashes on duration categorization

Tsuyoshi Kuroda¹, Simon Grondin², Shozo Tobimatsu¹
(¹Kyushu University, Japan, ²Université Laval, Canada)

Visual Recognition

P2-25 Spatial frequency in paintings by artists with/without migraine: A pilot study

Shu Imaizumi^{1,2}, Akira Iwaya¹, Haruo Hibino¹, Shinichi Koyama^{1,3}
(¹Chiba University, Japan, ²Japan Society for the Promotion of Sciences (JSPS), Japan, ³Nanyang Technological University, Singapore)

P2-26 The role of upper and lower faces in discriminating happy and sad facial expressions

Pei-Yin Chen, Yi-Cheng Pan, Chien-Chung Chen
(National Taiwan University, Taiwan)

P2-27 Experience-driven perceptual bias in face processing for 8–11 month-old infants

Nga Ki Kong, Cynthia Yui Hang Chan, Kevin Ho Man Cheng, Chia-huei Tseng
(The University of Hong Kong, Hong Kong)

P2-28 The novel facial identity aftereffect elicited by simple curve

Miao Song
(Shanghai Maritime University, China)

P2-29 Race-specific aftereffect using anti-face: A pilot study

Euihyun Kwak, Chunmae Lee, Kyongmee Chung
(Yonsei University, Korea)

P2-30 Infants' visual discrimination of mirror letter images

Wakayo Yamashita¹, Yumiko Otsuka², Ayanori Tanaka⁴, Kazuki Sato⁴,
So Kanazawa³, Masami K Yamaguchi⁴
(¹Kagoshima University, Japan, ²UNSW Australia, Australia, ³Japan Women's University, Japan, ⁴Chuo University, Japan)

- P2-31 The BOLD and the beautiful: Neural responses to natural scene statistics in early visual cortex
Zoey Jeanne Isherwood¹, Mark M Schira², Branka Spehar³
(¹UNSW Australia, Australia, ²The University of Wollongong, Australia, ³Neuroscience Research Australia, Australia)

- P2-32 Does cuteness differ from beauty in peripheral vision?
Kana Kuraguchi, Hiroshi Ashida
(Kyoto University, Japan)

Visual Attention, Awareness and Cognition

- P2-33 Unconscious contour integration based on biocular rivalry
Hongmei Yan, Huiyun Du, Cheng Chen
(University of Electronic Science and Technology of China, China)

- P2-34 Comparison of effectiveness of different types of misdirection: Using card magic illusions
Ryo Tachibana, Jiro Gyoba
(Tohoku University, Japan)

- P2-35 Attention-dependent modulation of spike synchrony and firing rates for border-ownership selective neurons in a network model
Nobuhiko Wagatsuma¹, Rudiger von der Heydt², Ernst Niebur²
(¹Tokyo Denki University, Japan, ²Johns Hopkins University, USA)

- P2-36 Face in the crowd effect: An angry face advantage is found using ensemble search paradigm
Jingchao Liu¹, William Hayward², Matt Oxner²
(¹University of Hong Kong, Hong Kong, ²University of Auckland, New Zealand)

- P2-37 Can unaware emotional information activate space-valence association?
Kyoshiro Sasaki, Yuki Yamada, Kayo Miura
(Kyushu University, Japan)

- P2-38 Focus size of attention: Exploring the focus hypothesis on the collinear masking effect in visual search
Ching-Wen Chiu, Li Jingling
(China Medical University, Taiwan)

- P2-39 Contextual cueing effect for unseen targets
Masayuki Kobayashi¹, York Fang¹, Ryoichi Nakashima^{1,2},
Kazumichi Matsumiya¹, Ichiro Kuriki¹, Satoshi Shioiri¹
(¹Tohoku University, Japan, ²Japan Science and Technology Agency (JST), Japan)

- P2-40 Seeing the word I and my face activates my name: Close link between self-awareness and one's own name
Kuei-An Li, Jen-Hao Li, Su-Ling Yeh
(National Taiwan University, Taiwan)

- P2-41 Pre-cueing of correct response enhances the Simon Effect
Fei Tian, Kazumitsu Shinohara
(Osaka University, Japan)

- P2-42 Does ocular origin of stimuli always help you find a target? It depends!
Yuk Sheung Yeung¹, Meougsun Lee¹, Hiu Mei Chow^{1,2}, Chia-huei Tseng¹
(¹The University of Hong Kong, Hong Kong, ²University of Massachusetts Boston, USA)

- P2-43 Global versus local saliency: Determinants of access to visual awareness
Yung-Hao Yang^{1,2}, Su-Ling Yeh², Andreas Bartels¹
(¹University of Tübingen, Germany, ²National Taiwan University, Taiwan)

P2-44 Effect of optical flow in the entire visual field on attentional blink

Shinya Takagawa, Ken Kihara, Sakuichi Ohtsuka
(Kagoshima University, Japan)

P2-45 Visual search for a walker and a box: Search asymmetry in approaching and deviating walkers

Rie Ishimoto, Michiteru Kitazaki
(Toyohashi University of Technology, Japan)

Interactive Vision

P2-46 Impaired biological motion perception and action recognition in children with autism spectrum disorder

Liang Hui Wang^{1,2}, Tzu-Yun Chen², Hsin-Shui Chen^{2,1}, Sarina Hui-Lin Chien¹
(¹China Medical University, Taiwan, ²China Medical University Bei-Gang Hospital, Taiwan)

P2-47 The intention of an action distorts the timing of a Go/No-go signal of the action

Yoshiko Yabe^{1,2}, Melvyn Goodale¹
(¹University of Western Ontario, Canada, ²Kochi University of Technology, Japan)

P2-48 Visual field asymmetry in auditory facilitation effects for visual identification and localization performance

Yasuhiro Takeshima, Jiro Gyoba
(Tohoku University, Japan)

P2-49 The influence of gravity on length perception: The vestibular system delays eye movements that affects on length judgement

Shuilan He, Katsuaki Sakata
(Joshi University of Art and Design, Japan)

P2-50 The visual processing facilitation by the head direction

Ryoichi Nakashima, Satoshi Shioiri
(Tohoku University, Japan)

Monday, July 21 (Day 3)

8 : 30 – 10 : 30 **Talk 3A** *Spatio-temporal Vision*

Kagawa International Conference Hall

Moderator: Philip M Grove¹, Kazushi Maruya²

(¹The University of Queensland, Australia, ²NTT Communication Science Laboratories, Japan)

8 : 30 O3A-1 Effect of changing vertical disparity on perceived trajectory of moving object

Hirohiko Kaneko, Takashi Adachi, Toru Maekawa
(Tokyo Institute of Technology, Japan)

8 : 45 O3A-2 Sensory and decisional factors involved in resolving audio-visual motion sequences

Philip M Grove
(The University of Queensland, Australia)

9 : 00 O3A-3 When a Mackintosh chair looks like a young woman: A study on visual object personification

Ryosuke Niimi
(The University of Tokyo, Japan)

9 : 15 O3A-4 Integration of multiple spatial frequency channels in V1 disparity detectors

Mika Baba, Kota S Sasaki, Izumi Ohzawa
(Osaka University, Japan)

9 : 30 O3A-5 V1 mechanisms related to encoding global visual motion

Choongkil Lee, Kayeon Kim, Eunyoung Kim, Taehwan Yoon
(Seoul National University, Korea)

9 : 45 O3A-6 Non-uniform flow aftereffect produced by adaptation to sparse uni-directional motion flows

Kazushi Maruya, Shin'ya Nishida
(NTT Communication Science Laboratories, Japan)

10 : 00 O3A-7 Perception of global image contrast is predicted by the same spatial integration model of gain control as detection and discrimination

Tim Simon Meese, Daniel H Baker, Robert J Summers
(Aston University, UK)

10 : 15 O3A-8 Modelling the human visual cortex, a complete model from visual stimulus to BOLD measurement

Mark M Schira^{1,2}, Peter Robinson³, Michael J Breakspear⁴, Kevin M Aquino^{2,3}
(¹University of Wollongong, Australia, ²Neuroscience Research Australia, Australia,
³University of Sydney, Australia, ⁴QIMR Berghofer Medical Research Institute, Australia)

10 : 30 O3A-9 The effect of flicker on apparent spatial frequency

Sae Kaneko^{1,2}, Deborah Giaschi³, Stuart Anstis¹
(¹University of California, San Diego, USA,
²Japan Society for the Promotion of Science (JSPS), Japan,
³University of British Columbia, Canada)

8 : 30 – 10 : 30 **Talk 3B** *Visual Search*

Conference Room 61

Moderators: Erik Van der Burg¹, Michael D Patterson²

(¹University of Sydney, Australia, ²Nanyang Technological University, Singapore)

Program July 21 (Day 3)

- 8 : 00 O3B-1 Evolving the stimulus to fit the brain: A genetic algorithm reveals the brain's feature priorities in visual search
Erik Van der Burg¹, John Cass², Jan Theeuwes³, David Alais¹
(¹University of Sydney, Australia, ²University of Western Sydney, Australia, ³VU University Amsterdam, The Netherlands)
- 8 : 45 O3B-2 Visual search in heterogeneous displays is not a categorical process: Evidence from genetic algorithms
Garry Kong, David Alais, Erik van der Burg
(University of Sydney, Australia)
- 9 : 00 O3B-3 Human visual search performance for military issued camouflaged targets
Olivia Emily Matthews, Tim Volonakis, Innes C Cuthill, Nicholas E Scott-Samuel, Roland Baddeley
(University of Bristol, UK)
- 9 : 15 O3B-4 The many ways to hide: a computer vision-based model of visual similarity between camouflage patterns
László Tálas, Roland Baddeley, Innes C Cuthill
(University of Bristol, UK)
- 9 : 30 O3B-5 The collinear masking effect can emerge as fast as 40ms
Li Jingling, Ching-Wen Chiu
(China Medical University, Taiwan)
- 9 : 45 O3B-6 Habitual video gamers can still learn from new games
Michael D Patterson, Han Jing Yang, Qinyuen Wong
(Nanyang Technological University, Singapore)
- 10 : 00 O3B-7 Eye of origin information does not always facilitate target search
Sunny Lee¹, May Yuk Sheung Yeung¹, Hui Mei Chow^{1,2}, Chia-huei Tseng¹
(¹University of Hong Kong, Hong Kong, ²University of Massachusetts Boston, USA)
- 10 : 15 O3B-8 Correlation between amplitude and phase of SSVEP as an attention measure
Satoshi Shioiri, Yoshiyuki Kashiwase, Kazumichi Matsumiya, Ichiro Kuriki
(Tohoku University, Japan)

10 : 45 – 12 : 15 **Poster 3A** (Odd Numbers)

Small Hall 2

13 : 30 – 15 : 30 **Symposium 3A** *Functional and Structural MRI of Visual Brain Networks*

Kagawa International Conference Hall

Organizer: Mark W Greenlee
(University of Regensburg, Germany)

- S3A-1 Studying physiological properties in human visual cortex using a high-resolution single-voxel fMRI approach
Kang Cheng
(RIKEN Brain Science Institute, Japan)
- S3A-2 The phase of ongoing EEG brain oscillations modulates perceptual performance and functional connectivity in the visual brain
Gregor Volberg, Simon Hanslmayr, Mark W Greenlee
(University of Regensburg, Germany)
- S3A-3 Cortical network underlying perception of real and illusory motions
Hiroshi Ashida
(Kyoto University, Japan)

S3A-4 The functions and connections of the Cingulate Sulcus Visual Area (CSv)
Andrew T Smith
(Royal Holloway, University of London, UK)

S3A-5 Multisensory brain networks as revealed by functional MRI and fiber tracking based on diffusion-weighted MRI
Anton L Beer
(University of Regensburg, Germany)

13 : 30 – 15 : 30 **Symposium 3B** *Statistical Visual Cognition* *Conference Room 61*
Organizer: Jun Saiki
(Kyoto University, Japan)

S3B-1 Representations of total area, numerosity, and mean size of elements in a visual display
Sang-Chul Chong
(Yonsei University, Korea)

S3B-2 The eccentricity effect in statistically-based scene understanding
Hayaki Banno
(Kwansei-Gakuin University, Japan)

S3B-3 Memory is enhanced and inhibited by statistical regularities
Sachio Otsuka
(Kyoto University, Japan)

S3B-4 Interactions of statistical learning with perception and attention
Nick Turk-Browne
(Princeton University, USA)

17 : 00 – 18 : 00 **Talk 3C** *Depth Perception* *Kagawa International Conference Hall*
Moderator: Haruki Mizushina
(National Institute of Information and Communications Technology (NICT), Japan)

17 : 00 O3C-1 Neural correlates of vection under wide-view stereoscopic visual display
Atsushi Wada, Yuichi Sakano, Hiroshi Ando
(National Institute of Information and Communications Technology (NICT), Japan;
Center for Information and Neural Networks (CiNet), Japan)

17 : 15 O3C-2 Far from the skies, close to the ground — why do we misperceive distances
Oliver M Toskovic
(University of Belgrade, Serbia)

17 : 30 O3C-3 Relationship between maximum screen disparity for viewing stereoscopic images without discomfort and individual variation in visual function
Haruki Mizushina, Hiroshi Ando
(National Institute of Information and Communications Technology (NICT), Japan)

17 : 45 O3C-4 Effect of number of surfaces on perceived depth between two outermost surfaces of a stereo-transparency stimulus
Koichi Shimono¹, Saori Aida¹, Wa James Tam²
(¹Tokyo University of Marine Science and Technology, Japan, ²University of Ottawa, Canada)

17 : 00 – 18 : 00 **Talk 3D** *Visual Awareness* *Conference Room 61*
Moderator: Su-Ling Yeh
(National Taiwan University, Taiwan)

Program July 21 (Day 3)

- 17 : 00 O3D-1 Semantic processing of invisible words under interocular suppression: Evidence from evoked-related potentials
Su-Ling Yeh¹, Jifan Zhou¹, Kuei-An Li¹, Yung-Hsuan Tien¹, Yi-Huan Chen¹,
Yih-Shiuan Lin¹, Alan Pegna^{2,3}
(¹National Taiwan University, Taiwan, ²Geneva University Hospitals, Switzerland,
³University of Geneva, Switzerland)
- 17 : 15 O3D-2 Aesthetic influences on visual awareness?: An ‘inward bias’ in inattention blindness
Yi-Chia Chen, Brian J Scholl
(Yale University, USA)
- 17 : 30 O3D-3 Perceptual learning weakens crowding by reducing identity but not position errors
JunYun Zhang, YingZi Xiong, Cong Yu
(Peking University, China)
- 17 : 45 O3D-4 Filling in the blanks in cortical blindness
Juno Kim¹, Stuart Anstis²
(¹UNSW Australia, Australia, ²University of California, San Diego, USA)
- 19 : 00 – **Demo night & Banquet** *HITEN room JR Hotel Clement Takamatsu (3F)*

Posters (July 21)

Color and Light

- P3-1 Egg camouflage is maximised by matching chromatic but not textural cues in the Japanese quail
Karen Anne Spencer¹, Camille Duval¹, P George Lovell^{1,2}
(¹University of St Andrews, UK, ²Abertay University, UK)
- P3-2 Chromatic aberration of the human eye and corneal and crystalline lens powers
Masashi Nakajima^{1,2}, Takahiro Hiraoka³, Tetsuro Oshika³, Yoko Hirohara², Toshifumi Mihashi¹
(¹Tokyo Institute of Technology, Japan, ²TOPCON Co., Japan,
³University of Tsukuba, Japan)
- P3-3 Color constancy effect measured by color naming method with functional filters for optical simulations of aged ocular lens and dichromats
Mio Hashida, Ippei Negishi, Keizo Shinomori
(Kochi University of Technology, Japan)
- P3-4 Evaluation of the relationship between color discriminability, color categorization, and glare perception while wearing colored lenses in young adults
Kenichiro Kawamoto^{1,2}, Keiko Yamamoto¹, Natsumi Noguchi¹,
Hidetsugu Kawashima³, Akio Tabuchi¹, Tenji Wake²
(¹Kawasaki University of Medical Welfare, Japan, ²Kanagawa University, Japan,
³Aichi Shukutoku University, Japan)
- P3-5 Recognition of sunlight-related illumination environment influences color constancy effect on three dimensional room images of computer graphics
Kouki Ueta, Ippei Negishi, Keizo Shinomori
(Kochi University of Technology, Japan)
- P3-6 Contrast sensitivity function measured by a four-primary illumination system
Naoshi Hamazono¹, Katsunori Okajima², Sei-ichi Tsujimura¹
(¹Kagoshima University, Japan, ²Yokohama National University, Japan)
- P3-7 Measurements of daylight during a day and at various locations
Cong Zhang, Tomohisa Matsumoto, Kazuho Fukuda, Toshifumi Mihashi, Keiji Uchikawa
(Tokyo Institute of Technology, Japan)

Spatio-temporal Vision

- P3-8 Connectivity between brain regions associated with optic flow processing
Maiko Uesaki, Hiroshi Ashida
(Kyoto University, Japan)
- P3-9 Individual differences in stereopsis and affecting factors
Masayuki Sato
(University of Kitakyushu, Japan)
- P3-10 A new bistable percept: the bistable fan illusion
Yung-Hsuan Tien, Su-Ling Yeh
(National Taiwan University, Taiwan)
- P3-11 Binocular directional capture of monocular stimuli without allotopia
Tsutomu Kusano, Saori Aida, Koichi Shimono
(Tokyo University of Marine Science and Technology, Japan)
- P3-12 Temporal relationship between the flash-drag effect and the flash-lag effect: Psychophysics and modeling
Yuki Murai, Ikuya Murakami
(The University of Tokyo, Japan)
- P3-13 Afterimage duration reflects orientation-selectivity of interocular suppression
Motomi Shimizu, Eiji Kimura
(Chiba University, Japan)
- P3-14 Illusory contours on random dot images
Masahiro Ishii
(Sapporo City University, Japan)
- P3-15 Active task measurements of tolerance to stereoscopic 3D image distortion
Robert Scott Allison, Karim Benzeroual, Laurie M Wilcox
(York University, Canada)
- P3-16 Effect of the target object visibility on velocity perception during smooth pursuit eye movement
Minhyeok Kim, Keita Ishibashi, Koichi Iwanaga
(Chiba University, Japan)
- P3-17 Ambiguity of rotating directions in the silhouette figure
Yin Zhu, Tadayuki Tayama
(Hokkaido University, Japan)
- P3-18 Phase tagging for single trial MEG responses under binocular rivalry
Takashi Shinozaki, Yasushi Naruse
(National Institute of Information and Communications Technology (NICT), Japan)
- P3-19 Visual fatigue of viewing stereoscopic display with different ranges of binocular disparity
Hiroyasu Ujike¹, Hiroshi Watanabe²
(National Institute of Advanced Industrial Science and Technology (AIST), Japan)
- P3-20 Visually induced motion sickness breaks the synchronization of fMRI time-series from the left and right human MT+
Jungo Miyazaki¹, Hiroki Yamamoto², Yoshikatsu Ichimura¹, Hiroyuki Yamashiro²,
Tomokazu Murase³, Masahiro Umeda³, Toshihiro Higuchi³
(¹Canon Inc., Japan, ²Kyoto University, Japan, ³Meiji University of Integrative Medicine, Japan)

Visual Recognition

- P3-21 Estimation of functional specificity of visual areas by a transverse relaxation profile
Daehun Kang^{1,2}, Yulwan Sung¹, Satoshi Shioiri², Seiji Ogawa¹
(¹Tohoku Fukushi University, Japan, ²Tohoku University, Japan)
- P3-22 Perceiving group-wide attractiveness for human faces
Hidekazu Yarimizu, Yoshitaka Makino, Jun Kawahara
(Chukyo University, Japan)
- P3-23 The temporal dynamics of object detection between target and non-target response by using fragmented object contours
Kosuke Taniguchi
(Doshisha University, Japan)
- P3-24 Dynamic face adaptation in facial expression judgment and its position specificity
Yu Ting Lew, Hong Xu
(Nanyang Technological University, Singapore)
- P3-25 The effect of verbal overshadowing on face identification — A pilot study
Minje Kim¹, Kyongmee Chung¹, Woo Hyun Jung²
(¹Yonsei University, Korea, ²Chungbuk National University, Korea)
- P3-26 Positive eyes facilitate use of pigment and shape information from the rest of the face
Harold C H Hill¹, Sarah Shrimpton², Yumiko Otsuka³, Mark D Shriver⁴, Peter D Claes⁵
(¹University of Wollongong, Australia, ²University of Dundee, UK, ³UNSW Australia, Australia, ⁴The Pennsylvania State University, USA, ⁵Katholieke Universiteit Leuven, Belgium)
- P3-27 Configural face processing in serial visual presentation
Jasmina Stevanov², Zorica Stevanov¹, Dejan Todorovic¹
(¹University of Belgrade, Serbia, ²Kyoto University, Japan)
- P3-28 Visual field coverage of category selective regions in human visual cortex estimated using pRF mapping
Nathan Witthoft¹, Mai Nguyen², Sonia Poltoratski³, Golijeh Golarai¹, Alina Liberman⁴, Karen F LaRocque¹, Mary E Smith⁴, Kalanit Grill-Spector¹
(¹Stanford University, USA, ²New York University, USA, ³Vanderbilt University, USA, ⁴University of California, Berkeley, USA)
- P3-29 Importance of the stimulus intensity in perceptual adaptation
Dayi Jung, Euihyun Kwak, Kyongmee Chung
(Yonsei University, Korea)

Visual Attention, Awareness and Cognition

- P3-30 Rapid and efficient processing of frequently-used meaningful visual symbols
Naoto Sakuma, Eiji Kimura, Ken Goryo
(Chiba University, Japan)
- P3-31 Inhibition of return to eye gaze develops in teenage
Hui Fang Lin¹, Li Jingling², Chih Chien Lin³, Chia Jui Tsai⁴, Yen Ching Wu³, Joung Kung Yih³, Lin Me Chen³, Wan Ru Tzeng³, Mei Jung Chen³
(¹National Changhua University of Education, Taiwan, ²China Medical University, Taiwan, ³Taichung Veterans General Hospital, Taiwan, ⁴Changhua Christian Hospital, Taiwan)

- P3-32 Moderate transient noise improves response inhibition in children with attention-deficit/hyperactivity disorder
Yi-Min Tien¹, Yu-Shu Liang¹, Hisn-Wei Wu¹, Jeng-Yi Tyan², Tun-Shin Lo¹,
Kuo-You Huang¹, Li-Chuan Hsu³, Vincent Chin-Hung Chen^{1,2}
(¹Chung Shan Medical University, Taiwan, ²Chung Shan Medical University Hospital, Taiwan,
³China Medical University, Taiwan)
- P3-33 Longer stimulus presentation decreases the magnitude of cross-domain priming
Kiyofumi Miyoshi, Hiroshi Ashida
(Kyoto University, Japan)
- P3-34 Qigong dandao meditation improves visual attention
Weilun Chou, Min-Hui Tsai
(Fo Guang University, Taiwan)
- P3-35 Sequence effects of symbolic cueing: the role of voluntary control and attentional control settings
Qian Qian, Raodong Yu, Feng Wang
(Kunming University of Science and Technology, China)
- P3-36 Spatial spread of visual attention while tracking a moving object
Kei Ishii, Kazumichi Matsumiya, Ichiro Kuriki, Satoshi Shioiri
(Tohoku University, Japan)
- P3-37 Studying effects of shifting gaze with subtle visual stimuli during driving
Kohei Oka¹, Yusuke Sugano¹, Yoichi Sato¹, Akihiro Sugimoto², Toshiyuki Kondo³,
Keisuke Hachisuka³, Katsunori Abe³, Eiichi Okuno³
(¹The University of Tokyo, Japan, ²National Institute of Informatics, Japan,
³DENSO Co., Japan)
- P3-38 Relationships between emotions and colors: A comparison between Japanese and Chinese
XiangYuan Zeng, Kana Kuraguchi, Hiroshi Ashida
(Kyoto University, Japan)
- P3-39 Understandability and aesthetic preference in diagram design: A case study on the design of visual pathway diagrams
Yu-Ying Lin, Hiroshi Ashida
(Kyoto University, Japan)
- P3-40 Synesthetic colors affect visuospatial working memory
Hiroyuki Mitsudo, Yukiko Nishi
(Kyushu University, Japan)

Interactive Vision

- P3-41 Action comparison influences size perception
Wenbo Luo¹, Yongning Song^{1,2}, Kayo Miura¹
(¹Kyushu University, Japan, ²East China Normal University, China)
- P3-42 Bouba/Kiki effect in deaf people
Shuichiro Taya
(Taisho University, Japan)
- P3-43 Interference of manual reactions by concurrent saccades
Hiroshi Ueda, Kohske Takahashi, Katsumi Watanabe, Yasushi Yamaguchi
(The University of Tokyo, Japan)

Program July 21 (Day 3)

P3-44 Infants' preference for female face enhanced by odor

Ayanori Tanaka¹, So Kanazawa², Masami K Yamaguchi¹
(¹Chuo University, Japan, ²Japan Women's University, Japan)

P3-45 The dilations and compressions of the interval-time perception caused by visual flickers and auditory flutters

Kenichi Yuasa^{1,2}, Yuko Yotsumoto¹
(¹The University of Tokyo, Japan, ²Japan Society for the Promotion of Science (JSPS), Japan)

Tuesday, July 22 (Day 4)

8 : 30 – 10 : 30 **Symposium 4A *Temporal Recalibration*** *Kagawa International Conference Hall*
Organizer: Derek Arnold
(The University of Queensland, Australia)

S4A-1 Adaptation to asynchronous audiovisual events occurs rapidly
Erik Van der Burg¹, David Alais¹, John Cass²
(¹University of Sydney, Australia, ²University of Western Sydney, Australia)

S4A-2 Temporal recalibration of physical and neural time lags
Shinya Yamamoto
(National Institute of Advanced Science and Technology, Japan)

S4A-3 On the function and mechanisms of adaptation in relative timing perception
Warrick Roseboom
(NTT Communication Science Laboratories, Japan)

S4A-4 Assessing proposed explanations of audio-visual temporal recalibration
Kielan Yarrow
(City University London, UK)

8 : 30 – 10 : 30 **Symposium 4B: *Infant Visual Perception and Beyond: Motion, Color, Object, and Face Perception, and Cross-modal Rule Learning***
Conference Room 61
Organizer: Yumiko Otsuka
(UNSW Australia, Australia)

S4B-1 Development of categorical color perception in infants
Jiale Yang¹, So Kanazawa², Masami K Yamaguchi¹, Ichiro Kuriki³
(¹Chuo University, Japan, ²Japan Women's University, Japan, ³Tohoku University, Japan)

S4B-2 Changes in radial optic flow perception precede the development of voluntary locomotion
Nobu Shirai¹, Tomoko Imura²
(¹Niigata University, Japan, ²Niigata University of International and Information Studies, Japan)

S4B-3 Temporal dynamics of spatial frequency processing for objects and faces in infants
Yumiko Otsuka¹, Hiroko Ichikawa^{2,3}, So Kanazawa⁴, Masami K Yamaguchi², Branka Spehar¹
(¹UNSW Australia, Australia, ²Chuo University, Japan, ³Japan Society for the Promotion of Science (JSPS), Japan, ⁴Japan Women's University, Japan)

S4B-4 Specialization and generalization in perceptual development: The case of the other-race effect in the first year of life
Sarina Hui-Lin Chien¹, Tsung-Ren Huang², Jing-Fong Wang¹
(¹China Medical University, Taiwan, ²National Taiwan University, Taiwan)

S4B-5 Infant cross-modal learning
Hui Mei Chow^{1,2}, Angeline Sin-Mei Tsui^{1,3}, Yuen Ki Ma¹, Mei Ying Yat¹, Chia-huei Tseng¹
(¹University of Hong Kong, Hong Kong, ²University of Massachusetts Boston, USA, ³University of Ottawa, Canada)

Program July 22 (Day 4)

10 : 45 – 11 : 45 **Keynote Lecture 2**

Kagawa International Conference Hall

Illusory movements

Stuart Anstis

(University of California, San Diego, USA)

Moderator: Hiroyuki Ito

(Kyushu University, Japan)

11 : 45 – **Business meeting & Closing remarks**

12 : 15 – **Excursion**