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[2023]応用知覚科学研究センター活動報告 : 令和5年度（2023年度）

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KYUSHU UNIVERSITY

令和5年度（2023年度）活動報告

Annual Report 2023–2024



令和8年（2026年）11月

November 2026

九州大学 大学院芸術工学研究院
応用知覚科学研究センター

Research Center for Applied Perceptual Science
Faculty of Design, Kyushu University

令和5年度（2023年度）活動報告

Annual Report 2023–2024

ReCAPS

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1 ごあいさつ Greetings

Now that the COVID-19 pandemic has largely subsided and the virus has become less virulent, it is expected that human communication will return to pre-pandemic levels in both quality and quantity. However, it is also recognized that forms of communication conducted online—which differ qualitatively from in-person interaction—offer many advantages, and there are expectations that these will be maintained and further developed. Remote meetings, teleworking, and online classes have already become established, bringing about major reforms in how we learn and work. Regarding the transmission and sharing of sensory experiences online, vision and audition are possible to a certain extent; even in the field of perceptual science, although there are clear limitations, online experiments are now being conducted. While handling other senses online faces technical challenges, there is significant potential for future growth, particularly in the area of touch. While the Center for Applied Perceptual Science focuses primarily on fundamental human perceptual processes, we also consider it an important research question how humans adapt to—or experience stress from—changes in the information environment.

Hiroyuki ITO, PhD
(Director since April 2020)

注：当センターでは，学術上の公用語として英語を用いております。本報告は九州大学内での報告を主たる目的として作成したため，目次等は日本語でも記述しております。

2 構成員リスト Members

2024 年（令和 6 年）3 月 31 日現在
As of 31 March 2024

2.1 知覚脳科学グループ Perceptual and Brain-Scientific Research Group

伊藤 裕之 #‡, センター長	主幹教授	九州大学 大学院芸術工学研究院 メディアデザイン部門
須長 正治	主幹教授	九州大学 大学院芸術工学研究院 メディアデザイン部門
Gerard Bastiaan REMIJN#	准教授	九州大学 大学院芸術工学研究院 音響設計部門
平松 千尋	准教授	九州大学 大学院芸術工学研究院 未来共生デザイン部門
大井 尚行	教授	九州大学 大学院芸術工学研究院 環境設計部門
冬野 美晴	准教授	九州大学 大学院芸術工学研究院 メディアデザイン部門
橋彌 和秀*	教授	九州大学 大学院人間環境学研究院 人間科学部門
山本 健太郎*	講師	九州大学 大学院人間環境学研究院 人間科学部門
竹市 博臣*	客員教授	九州大学 芸術工学部／理化学研究所
富松 江梨佳*	特別研究員	九州大学 大学院芸術工学研究院

注：# は運営委員，*は協力研究員，‡ は五感応用デバイス研究開発センター視聴覚部門協力教員。

Hiroyuki ITO#‡, PhD, Director	Distinguished Professor	Faculty of Design, Kyushu University
Shoji SUNAGA, D. Eng.	Distinguished Professor	Faculty of Design, Kyushu University
Gerard Bastiaan REMIJN#, PhD	Associate Professor	Faculty of Design, Kyushu University
Chihiro HIRAMATSU, PhD	Associate Professor	Faculty of Design, Kyushu University
Naoyuki OI, D. Eng.	Professor	Faculty of Design, Kyushu University
Miharu FUYUNO, MA in English Linguistics, MA TESOL with Special Award, PhD	Associate Professor	Faculty of Design, Kyushu University
Kazuhide HASHIYA*, PhD	Professor	Faculty of Human-Environment Studies, Kyushu University
Kentaro YAMAMOTO*, PhD	Lecturer	Faculty of Human-Environment Studies, Kyushu University
Hiroshige TAKEICHI*, PhD	Visiting Professor	Faculty of Design, Kyushu University/ RIKEN
Erika TOMIMATSU*, PhD	Postdoctoral Fellow	Faculty of Design, Kyushu University

Note: A hash mark indicates a steering committee member, and an asterisk an associate member, and a double dagger an associate member of Division of Auditory and Visual Perception Research, Research and Development Center for Five-Sense Devices.

2.2 応用知覚学グループ Applied Perceptual Research Group

鏑木 時彦 #	教授	九州大学 大学院芸術工学研究院 音響設計部門
上田 和夫 #†	准教授	九州大学 大学院芸術工学研究院 音響設計部門
妹尾 武治	准教授	九州大学 大学院芸術工学研究院 メディアデザイン部門
Hsin-Ni HO	准教授	九州大学 大学院芸術工学研究院 メディアデザイン部門
澤井 賢一	助教	九州大学 大学院芸術工学研究院 人間生活デザイン部門
兼松 圭	助教	九州大学 大学院芸術工学研究院 メディアデザイン部門
志堂寺 和則*‡	教授	九州大学 大学院システム情報科学研究院 情報学部門
光藤 宏行*‡	准教授	九州大学 大学院人間環境学研究院 人間科学部門
山田 祐樹*‡	准教授	九州大学 基幹教育院 人文社会科学部門

注：# は運営委員，*は協力研究員，† は五感応用デバイス研究開発センター視聴覚部門複担教員，‡ は五感応用デバイス研究開発センター視聴覚部門協力教員。

Tokihiko KABURAGI#, PhD	Professor	Faculty of Design, Kyushu University
Kazuo UEDA#†, PhD	Associate Professor	Faculty of Design, Kyushu University
Takeharu SENO, PhD	Associate Professor	Faculty of Design, Kyushu University
Hsin-Ni HO, PhD	Associate Professor	Faculty of Design, Kyushu University
Ken-ichi SAWAI, PhD	Assistant Professor	Faculty of Design, Kyushu University
Tama KANEMATSU, PhD	Assistant Professor	Faculty of Design, Kyushu University
Kazunori SHIDOJI*‡, PhD	Professor	Faculty of Information Science and Electrical Engineering, Kyushu University
Hiroyuki MITSUDO*‡, PhD	Associate Professor	Faculty of Human-Environment Studies, Kyushu University
Yuki YAMADA*‡, PhD	Associate Professor	Faculty of Arts and Science, Kyushu University

Note: A hash mark indicates a steering committee member, and an asterisk an associate member, a dagger a member concurrently holding a position in Division of Auditory and Visual Perception Research, Research and Development Center for Five-Sense Devices, and a double dagger an associate member of Division of Auditory and Visual Perception Research, Research and Development Center for Five-Sense Devices.

3 本年度の活動実績 Activities

3.1 The 60th Perceptual Frontier Seminar: Time and Rhythm

Date and time: Tuesday, 13 June 2023, 10:00–12:00

Venue: Building 3, Room 322 (on-site) on the 2nd floor of the 3rd Building on the Ohashi campus.

Language: English

Organizer: Gerard B. REMIJN (Kyushu Univ./ReCAPS)

Program

1. 10:00-10:30 Effects of beat on the occurrence of temporal assimilation: Behavioral and EEG experiments

   Emi HASUO*, Yuu MASUDA**, Hiroshi ARAO**, Kentaro ONO***, and Ayumu MATANI***

   *Kyushu University, **Taisho University, ***Hiroshima University

   Auditory temporal assimilation refers to the phenomenon in which the durations of two neighboring time intervals (T1 and T2) marked by three successive sounds are perceived as closer to equal when they are physically unequal. Results obtained in behavioral experiments, which looked into the effects of preceding context (beat) on the occurrence of temporal assimilation, showed that the range in which temporal assimilation occurs can depend on the beat, causing bistable rhythm perception for physically identical rhythm patterns in some cases. The following EEG experiment suggested that the amplitude of N1 to the third sound (marking the end of T2) was related to the bistable rhythm perception.

2. 10:30–11:00 Reconstructing sense of humor in the past

   Motohide SEKI

   Faculty of Design, Design Futures Department, Kyushu University

   Sense of humor (i.e., what they find and do not find humorous) is culturally and temporally diverse and may change over a relatively short period. We are preparing to compare the sense of humor between young people in the past (the 1980s) and today using audiovisual recordings of a manzai (Japanese stand-up comedy) and audience reactions. In addition, we are developing AI mimicking the past sense of humor to explore which parts they would have laughed at if they had watched present manzai shows.

3. 11:00–11:10 Phonemic restoration and energetic masking with checkerboard speech stimuli

   Koutaro MUNECHIKA*, Kazuo UEDA**, Hiroshige TAKEICHI***, and Gerard B. REMIJN****

   *Kyushu Univ., **Kyushu Univ./ReCAPS/Five-Sense Center, ***RIKEN/ReCAPS, ****Kyushu Univ./ReCAPS

   The intelligibility of noise-filled checkerboard speech stimuli was investigated. Noise-filling resulted in both gains and losses in the intelligibility of checkerboard speech stimuli, depending on the combinations of the number of frequency bands, segment duration, and noise levels. The results suggest that noise-filling in checkerboard speech stimuli induces both energetic masking and phonemic restoration.

4. 11:10–11:20　Selective Listening in Checkerboard and Interrupted Speech Stimuli with Two Talkers

   Jun HASEGAWA* , Kazuo UEDA**, Hiroshige TAKEICHI***, Gerard B. REMIJN**, and Emi HASUO**

   *School of Design, Kyushu University, **Dept. Acoustic Design, Kyushu University, ***Open Systems Information Science Team, RIKEN

   The intelligibility of two-talker checkerboard speech stimuli was examined, in which two different sentences spoken by different talkers were interrupted in time and frequency and summed up without making any overlaps in frequency. Listening experiments with 22 listeners showed that the listeners successfully heard out a specific talker's sentence and ignored the other. The intelligibility curves exhibited characteristic U-shaped curves as found in the previous investigations on single-talker checkerboard speech stimuli, suggesting that the common auditory grouping mechanism worked in this case also.

5. 11:20–11:30　The effect of frequency modulation on auditory numerosity judgments

   Kana KUSUMI*, Emi HASUO**, and Gerard B. REMIJN**

   * Graduate School of Design, Kyushu University, ** Faculty of Design/ReCAPS, Kyushu University

   Recent research in the field of auditory numerosity has shown that underestimation in numerosity was related with the sound duration and the number of sounds. Since the other cues of auditory numerosity perception are still not clear, we used short sequences of steady-state sounds and frequency-modulated sounds (glides) in order to investigate whether frequency modulation would be a cue for numerosity judgments. The results (n=22) showed that the number of perceived sounds in the sequences was strongly underestimated regardless of frequency modulation, and that the numerosity of stimuli with a slope of 1 oct/sec was often more underestimated than that of stimuli with a slope of 0 oct/sec (steady-state sequences) and 3 oct/sec.

6. 11:30–11:40　Leaps in reverse and out of alignment: Revisiting the rabbit' s hops in the visual saltation illusion

   Sheryl Anne MANALIGOD De JESUS 1, Hiroyuki ITO 2,3, and Tama KANEMATSU 2,3

   1) Graduate School of Design, Kyushu University, 2) Faculty of Design, Kyushu University, 3) Center for Applied Perceptual Science, Kyushu University

   The visual saltation illusion (VSI) consists of images—typically three flashes—presented rapidly to create an illusion of continuous motion. This research builds on the authors' previous VSI study that exhibited saltation by presenting the second flash with backwards shift. The current study presents how saltation is achieved utilizing postdictive parameters under two novel conditions: a reverse shift presentation of the second flash and a vertical shift presentation of the second flash at the midpoint between the first and last flash.

7. 11:40–11:50　Diversity in attention-related neural activity between people with different color vision types toward saliency different colors

   Naoko TAKAHASHI (1), Xu CHEN (1), Masataka SAWAYAMA (2), Yuki MOTOMURA (1), and Chihiro HIRAMATSU (1)

   1 Graduate School of Design, Kyushu University, 2 Graduate School of Information Science and Technology, The University of Tokyo

Wide genetical diversity is known to human color vision. Regardless of the deviated sensitivity, color vision minorities are known to demonstrate enhanced color sensitivities and thus a compensatory neural mechanism has been assumed. Our study of attention-related neural activity indicated enhanced attention to less salient color for color-vision diverse individuals, which indicated relation to enhanced color perception of color vision minorities.



3.2 The 61st Perceptual Frontier Seminar: Rehearsal Session for ICMPC17-APSCOM7

Date and time: Monday, 21 August 2023, 16:00–18:00

Venue: Building 3, Room 322 (on-site) on the 2nd floor of the 3rd Building on the Ohashi campus

Language: English

Organizer: Gerard B. Remijn (Kyushu Univ./ReCAPS)

Program

1. 16:00–16:20
   (a) Does asymmetrical temporal assimilation occur in music?
   Emi HAZUO, Yuu MASUDA and Hiroshi ARAO
   (b) Electroencephalographic study on Bistable Rhythm
   Emi HAZUO, Kentaro ONO and Ayumu MATANI
2. 16:20–17:00
   (a) Perceptual contrast between two adjacent short time intervals marked by tone bursts
   Yoshitaka NAKAJIMA, Emi HASUO, Mizuki MATSUDA-IMAI and Erika TOMIMATSU
   (b) Discrepancies between physical and perceived inter-onset time intervals that cannot be ignored in music perception studies
   Yoshitaka NAKAJIMA and Emi HASUO
   (c) Inevitable time warp in music perception
   Yoshitaka NAKAJIMA and Emi HASUO
3. 17:00–17:20
   (a) The rivalry between fundamental frequency separation and switching frequency bands for auditory stream segregation in harmonic complex tone sequences
   Geng-Yan JAHANG, Kazuo UEDA, Hiroshige TAKEICHI and Gerard REMIJN

4. 17:20–17:30

   (a) The relation between pupil dilation and positive affective feelings induced by ASMR-sounds, music, and other sounds
   Anna TAKEUCHI and Gerard REMIJN

5. 17:30–17:40

   (a) Summary statistics in hearing: Average pitch estimation from a sequence of tones by listeners with and without absolute pitch
   Gerard REMIJN, Masaki TERAMACHI, Ryuji TAKAHASHI and Kazuo UEDA

3.3 The 62nd Perceptual Frontier Seminar: Rehearsal Session for Fechner Day 2023

Date and time: Tuesday, 5 September 2023, 13:00–16:00

Venue: In-person meeting at Room 601 on the 6th floor of the 3rd Building on the Ohashi campus

Language: English

Organizer: Kazuo UEDA (Kyushu Univ./ReCAPS/Five-Sense Center)

Program

1. 13:00-13:30 Temporal proximity between sound edges is vital for the gap transfer illusion
   Yoshitaka NAKAJIMA*
   *Kyushu University,

2. 13:30–14:00 Magnetoencephalography of checkerboard speech processing
   Hiroshige TAKEICHI*
   *RIKEN

3. 14:00–14:30 Interrupted mosaic speech revisited: A curious biphasic effect of stretching on intelligibility
   Kazuo Ueda*
   *Kyushu University

4. 14:40–15:10 Phonemic restoration and energetic masking with checkerboard speech stimuli: Effects of noise-filling on intelligibility
   Koutaro MUNECHIKA*
   *Kyushu University

5. 15:10–15:30 Effects of angles and motion lines in pictograms on perceived presentation duration
   Erika TOMIMATSU*
   *Kyushu University

6. 15:30–16:00 Inevitable time warp in music perception
   Yoshitaka NAKAJIMA*
   *Kyushu University

The program of Fechner Day 2023 is at
<https://patriziopaolettifoundation.mykajabi.com/fechner-day-2023/#program>.



3.4 The 63rd Perceptual Frontier Seminar: 10th Anniversary Seminar

Date and time: Saturday, 11 November 2023, 13:00–18:00

Venue: Building 3, 321/322 (on-site) on the 2nd floor of the 3rd Building on the Ohashi campus

Language: English

Organizer: Gerard B. REMIJN, Emi HASUO (Kyushu Univ./ReCAPS), and Kazuo UEDA (Kyushu Univ./ReCAPS/Five-Sense Center)

Co-Sponsor: The Research and Development Center for Five-Sense Devices, Kyushu University

Program

1. 13:00–13:05 **Greetings**
   Akira OMOTO (Dean, Fac. Design, Kyushu Univ.)
   Hiroyuki ITO (ReCAPS Director, Kyushu Univ.)

2. 13:05–13:10 **Group Photo**

3. 13:10–13:40 **Keynote 1** Gestalt Principles in Auditory Time
   Yoshitaka NAKAJIMA (Prof. Emeritus, Kyushu Univ.; Sound Corp.)

4. 13:40–14:10 **Keynote 2** Taste and Smell Sensing Technology
   Kiyoshi TOKO (University Prof., Institute for Advanced Study, Research and Development Center for Five-Sense Devices, Kyushu Univ.)

   Break

5. 14:20–14:40 Does Beat Influence Rhythm Perception?
   Emi HASUO (Kyushu Univ./ReCAPS)

6. 14:40–15:00 Diversity and Commonality of Color Perception beyond Color Discrimination Ability
   Chihiro HIRAMATSU (Kyushu Univ./ReCAPS)

7. 15:00-15:20 Fabrication of Biological Rhythms and Patterns
   Hiroshi ITO (Kyushu Univ.)

   Break

8. 15:20–15:40 The Role of Sensory Integration in Temporal Binding
   Kentaro YAMAMOTO (Kyushu Univ./ReCAPS)

9. 16:00–17:30 **Poster Symposium**

   P1. The effect of appearance and disappearance in transient-induced fading
   Moyou Jiang, Hiroyuki Ito, Tama Kanematsu (Kyushu Univ.)

   P2. Leaps in reverse and out of alignment: Revisiting the rabbit's hops in the visual saltation illusion
   Sheryl Anne Manaligod de Jesus, Hiroyuki Ito, Tama Kanematsu (Kyushu Univ.)

   P3. Multilingual slides with two different layouts: Students' evaluation scores, learning performance, and attention distribution using eye tracking
   Laksmira K. Adhani, Gerard B. Remijn (Kyushu Univ.)

   P4. Worldwide survey of the association between color and temperatur
   N. M. Sow (Kyushu Univ.), C. Saksirikosol, M. Shamohammadi, K. Rattanakasamsuk, C. Phuangsuwan (Rajamangala University of Technology Thanyaburi), C. Hiramatsu (Kyushu Univ.)

   P5. The relation between pupil dilation and positive affective feelings induced by ASMR- sounds, music, and other sounds
   Anna Takeuchi, Gerard B. Remijn (Kyushu Univ.)

   P6. Checkerboard and interrupted speech: Intelligibility contrasts related to factor-analysis-based frequency bands
   Kazuo Ueda, Linh Le Dieu Doan (Kyushu Univ.), Hiroshige Takeichi (RIKEN)

   P7. Selective listening in checkerboard and interrupted speech stimuli with two talkers
   Jun Hasegawa, Kazuo Ueda (Kyushu Univ.), Hiroshige Takeichi (RIKEN), Gerard B. Remijn, Emi Hasuo (Kyushu Univ.)

   P8. How subtle linguistic cues prevent unethical behaviors
   Wen Guo, Huanxu Liu, Jingwen Yang,Yuqi Mo, Can Zhong, Yuki Yamada (Kyushu Univ., Human-Environment Studies)

   P9. The effect of sound frequency on auditory numerosity judgements
   Kana Kusumi, Emi Hasuo, Gerard B. Remijn (Kyushu Univ.)

   P10. Modality specificity of amodal completion with updates from October 2021 (53rd PFS)
   Hiroshige Takeichi (RIKEN), Keito Taniguchi, Hiroaki Shigemasu (Kochi University of Technology)

   P11. Discrepancies between physical and perceived inter-onset time intervals that cannot be ignored in music perception studies
   Yoshitaka Nakajima, Emi Hasuo (Kyushu Univ.)

   P12. Summary statistics in hearing: Average pitch estimation from a sequence of tones by listeners with and without absolute pitch
   Gerard B. Remijn, Masaki Teramachi, Ryuji Takahashi, Kazuo Ueda (Kyushu Univ.)

   P13. The impact of music in warehouse order picking operations
   Clarissa M. Pesigan, Gerard B. Remijn (Kyushu Univ.)

   P14. Auditory selective attention revealed an aberrant endogenous gamma-band synchronization in patients with schizophrenia

Takako Mitsudo (Hizen Psychiatric Center), Shunsuke Tamura (Univ. Miyazaki), Yoshifumi Takai, Shoichiro Nakanishi (Kyushu Univ.), Takefumi Ueno (Hizen Psychiatric Center), Toshiaki Onitsuka (Sakakibara Hospital), Yoji Hirano (Univ. Miyazaki)

10. 18:00–20:00 **Banquet**



3.5 The 64th Perceptual Frontier Seminar: Rehearsal for Auditory Research Meeting (15-16 December) and Acoustics 2023 Sydney (4-8 December)

Date and time: Wednesday, 29 November, 14:50–16:20

Venue: 601 on the 6th floor of the 3rd Building on the Ohashi campus

Language: English

Organizer: Kazuo Ueda (Kyushu Univ./ReCAPS/Five-Sense Center)

Oral Presentations

1. Summary statistics for music scale tones: The influence of the interstimulus interval between the stimulus set and the comparison tone
   Gerard B. REMIJN, Ryuji TAKAHASHI, and Kazuo UEDA (Kyushu Univ.)

   Listeners with and without absolute pitch were asked to estimate the average pitch of a set of 6 music scale tones and compare the estimate with a comparison tone. The interstimulus interval (ISI) between the set and the comparison tone was set at 500 ms, 5000 ms, and 15000 ms to investigate a possible effect of ISI on retention of the estimated pitch and the pitches of individual tones in the set. The results for both listener groups suggest that while ISI duration affects recognition of individual tones in the set, it hardly influences the percentage correct of the summary-statistical estimate of music scale pitches.

Poster Presentations

P1. Selective listening in checkerboard and interrupted speech stimuli with two talkers
Jun Hasegawa, Kazuo Ueda (Kyushu Univ.), Hiroshige Takeichi (RIKEN), Gerard B. Remijn, Emi Hasuo (Kyushu Univ.)

P2. Checkerboard and interrupted speech: Intelligibility contrasts related to factor-analysis-based frequency bands
Kazuo Ueda, Linh Le Dieu Doan (Kyushu Univ.), Hiroshige Takeichi (RIKEN)

P3. Interrupted mosaic speech revisited: Gain and loss in intelligibility by stretching
Kazuo Ueda, Msashi Hashimoto (Kyushu Univ.), Hiroshige Takeichi (RIKEN), and Kohei Wakamiya (Kyushu Univ.)

3.6 The 65th Perceptual Frontier Seminar: Dr. Morita's adventure in a virtual world

Date and time: Friday, 1 March 2024, 11:00–11:40

Venue: 601 on the 6th floor of the 3rd Building on the Ohashi campus

Language: English

Organizer: Hirhoshige Takeichi (RIKEN/ReCAPS)

Program

1. 11:00–11:40 The effects of real-time interaction and movement sharing on the performance under virtual co-embodiment
   Marie M. Morita*, Tetsuro Nakamura*, Hayato Yabuta*, Akihiko Gobara*,**, Miki Matsumuro***, Fumihisa Shibata*, Asako Kimura*, Norimichi Kitagawa*,**** *Ritsumeikan University, **Osaka university, ***Cornell University, ****Yoshika Institute of Psychology

   When a virtual avatar is controlled simultaneously by two individuals (i.e., the movement of the avatar reflects the averaged movement of them: virtual co-embodiment), the movement performance of individuals can improve compared to when they manipulate an avatar by themselves. In this presentation, we will report factors that improved an individual' s performance under virtual co-embodiment, focusing on the effect of real-time interaction and movement-sharing. Results of our studies suggest that individuals modulate their movement based on that of others reflected on the avatar, thereby resulting in better performances on body control.







4 業績リスト Publications

2023 年（令和 5 年）4 月 1 日より 2024 年（令和 6 年）3 月 31 日まで
Between 1 April 2023 and 31 March 2024

4.1 知覚脳科学グループ Perceptual and Brain-Scientific Research Group

1. 伊藤 裕之 Hiroyuki ITO

   (a) 英語学術論文・出版物 English Publication

   1) Hikari Matsunaga, Hiroyuki Ito, Tama Kanematsu. (2023.9). The kinetic Orbison illusion. *i-Perception*.
   2) Hiroyuki Ito, Keiya Kubo, Sheryl Anne Manaligod de Jesus. (2023.7). Visual saltation illusion induced by flashes of subjective contours. *i-Perception*.

   (b) 国際会議発表 International Conference Presentations

   1) Erika Tomimatsu, Gerard B Remijn, Hiroyuki Ito, Effect of angles and motion lines in pictograms on perceived presentation duration, 39th Annual Meeting of the International Society for Psychophysics, 2023 年 9 月.

   (c) 国内学会発表，研究会等 Domestic Conference Presentations

   1) 兼松 圭, 伊藤裕之, 背景輝度と順応は両眼視下の単眼感度に異なる影響を与える, 日本視覚学会 2024 年冬期大会, 2024 年 1 月.
   2) 顧 夏禕, 伊藤裕之, 兼松 圭, 凸面に投影した画像の知覚的奥行き反転, 日本視覚学会 2024 年冬期大会, 2024 年 1 月.
   3) Sheryl de Jesus, 伊藤裕之, 兼松 圭, Expanding and Contracting the Visual Saltation Illusion, 日本視覚学会 2024 年冬期大会, 2024 年 1 月.
   4) 何 海韵, 伊藤裕之, 兼松 圭, Sunburst illusion の生起要因, 日本視覚学会 2024 年冬期大会, 2024 年 1 月.
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10. 富松 江梨佳 Erika TOMIMATSU

4.2 応用知覚学グループ Applied Perceptual Research Group

1. 鏑木 時彦 Tokihiko KABURAGI

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