Poster Session Program　　　　　　　　　Jan 5, 2023　　　　　　　　　21:00 - 23:00

1	Simple implementation of system to detect illegal dumping on campus using Raspberry Pi	Seiryu Ishizawa*(†), Takuya Mori*(†), Eiji Kitajima, Ryota Miyata (U. Ryukyus)
2	Motivational level altered by rTMS targeting dlPFC and vMFC in monkeys	Madoka Hirose*, Rintaro Yoshino, Shinya Nakamura, Ken-Ichiro Tsutsui (Tohoku Univ.)
3	Does emotional content in art express artists' mental condition?	Egor Lobaskin* (ATR), Aurelio Corteze, Takuya Anzai, Toshinori Chiba
4	Evaluations of noise reduction methods for event-related potentials occurring under EEG-fMRI simultaneous recording	Toshikazu Kuroda* (1), Takeshi Ogawa (1), Reinmar Kobler (1,2), Mizuki Tsutsumi (1), Tomohiko Kishi (1), Motoaki Kawanabe (1,2) (1. ATR Dept. DBI, 2.RIKEN-AIP)
5	オートポイエティック・システムは実装できるか？：歴史と新しい手法のサーベイから次の一手を探る/ Can an autopoietic system be implemented?: Exploring the next steps from a survey of history and new methods	堀部和也*, 堀井隆斗（大阪大学）
6	Three-dimensional reproduction of typhoon from video recorded in aeronautical meteorological observations using neural radiance fields	Yoshitaka Adachi*, Takuya Mori, Eiji Kitajima, Hiroyuki Yamada, Kosuke Ito, Ryota Miyata (U. Ryukyus)
7	Human can use learned functional categories to infer reward	Kie Takazawa* (1,2), Jessica Taylor(2), Taiki Oka(2,3,4), Takatomi Kubo(1,2), Aurelio Cortese(2) (1. NAIST, 2. ATR, 3. Kumamoto Univ., 4. Osaka Univ.)
8	Toward an autonomous robot that emerges behavioral homeostasis	Naoto Yoshida*, Hoshinori Kanazawa, Yasuo Kuniyoshi (U. Tokyo)
9	自由行動下マーモセットの皮質広域ダイナミクス解析	Y Takahashi*(1), M Komatsu (2), S Sato (1), A Yoshida (1), S Sasai (1) (1. 株式会社ARAYA, 2. 東京工業大学科学技術創成研究院、理化学研究所脳神経科学研究センター)
10	Simultaneous recording of neuromodulator and calcium spatiotemporal activity reveals state dependent differences between dopaminergic, noradrenergic and serotonergic cortical activity	Miles Desforges* (OIST), Philipp Flotho,, Bernd Kuhn, Kenji Doya
11	Relation analysis between e-learning system logs and learning proficiency	Shinta Nakasone*, Ryota Miyata, Hidetsugu Torihara, Atsuro Yamashita, Hidehito Kuroyanagi (U. Ryukyus)
12	The neural representation of prior and likelihood uncertainty	林浩次郎* (1,2), 片山梨沙 (1,2), 藤本啓介 (1,2), 吉田和子 (2,3), 石井信 (1,2,4) (1. 京都大学, 2. ATR, 3. U. Oxford, 4. 東京大学国際高等研究所)
13	Small sample learning of reaching movements of a redundant robotic arm with an echo state network	Hiroshi Atsuta* (1), Yuji Kawai (1), Minoru Asada (1,2,3,4) (1. Osaka Univ., 2. NICT, 3. Chubu Univ., 4. IPUT)
14	Information transformation via brain-response prediction endows deep neural networks with more brain-like internal representations	Kiichi Kawahata* (1,2), Jiaxin Wang (1,2), Antoine Blanc (1), Shinji Nishimoto (1,2), and Satoshi Nishida (1,2) (1. CiNet, NICT, 2. Osaka Univ.)
15	Topographic projection from the anterior cingulate cortex to the periaqueductal gray	Yuki Soga* (1), Toshiki Mortani (1), Rintaro Yoshino (1), Kei Kimura (2), Shinya Nakamura (1), Shinya Ohara (1), Ken-Ichi Inoue (2), Masahiko Takada (2), Ken-Ichiro Tsutsui (1) (1. Tohoku Univ., 2. Kyoto Univ.)
16	Automatic video frame extraction in the vault event of wheel gymnastics	Eiji Kitajima* (1), Takashi Sato (2), Ryota Miyata (1) (1. U. Ryukyus, 2. Okinawa College)
17	メガネ型ウェアラブルセンサーを用いた映像への主観評価の測定に向けて	堂畑 茉由*（株式会社Araya、東京大学後期教養学部） 笹井 俊太郎（株式会社Araya）
18	Right dorsolateral prefrontal cortex regulates default prosociality preference	Hiroki Tanaka*, Qiulu Shou, Toko Kiyonari, Tetsuya Matsuda, Masamichi Sakagami, Haruto Takagishi (Tamagawa Univ.)
19	Identification of the Phenotypic Markers of Human Heart-Rate (HR) Through the Study of Its Circadian Dynamics	Soheil Keshmiri* (OIST), Kenji Doya
20	The relationship between precompetitive physiological states and superior performance in elite snowboarders	Seiji Matsumura* (1), Ken Watanabe (1,2), Sorato Minami (1), Naoki Saijo (1), Yuuki Ooishi (1), Makio Kashino (1) (1. NTT Communication Science Laboratories, 2. Waseda Univ.)
21	Information-theoretic study about the effects of action strategy and reward outcome on neural activities in the basal ganglia	Sorao Kosaka* (1,†), Tsukasa Irei (1,†), Kenji Doya (2), Koji Kurata (1), Ryota Miyata (1) (1. U. Ryukyus, 2. OIST)
22	The role of adult neurogenesis in dentate gyrus on the inference of novel structures in structure learning	Yuichiro Gyoten* (Kyoto Univ.), Yusuke Suzuki, Itaru Imayoshi
23	二者関係の秘匿性が周囲の「好奇心」と「自己帰属」に与える影響	末光 揮一朗*, 高橋 英之, 伴 碧, 石黒 浩 (大阪大学), 石津 智大 (関西大学)
24	Simple implementation of system to detect illegal dumping on campus using Raspberry Pi	Seiryu Ishizawa* (†), Takuya Mori* (†), Eiji Kitajima, Ryota Miyata (University of the Ryukyus)
25	How do humans infer their own causal effect on the environment?	Naoyuki Okamoto* (1,2), Benedetto De Martino(3), Shin Ishii (1,2), Aurelio Cortese(2) (1. Kyoto Univ. 2. ATR, 3. UCL)
26	Neural representation of multifaceted behavioral states during observational fear	Ziyan Huang* (U. Tokyo), Myung Chung, Kentaro Tao, Akiyuki Watarai, Mu-Yun Wang, Hiroh Ito, Teruhiro Okuyama
27	The relationship between perceptual learning and the consistency of neural networks	Yujin Goto*, Keiichi Kitajo (SOKENDAI, National Institute for Physiological Sciences)

*: Presenter,　†: equally contributed

Poster Session Program　　　　　　　　　　Jan 6, 2023　　　　　　　　　　　20:00 - 23:00

#	Title	Authors
1	Confidence in hierarchical decision-making	Takeru Misawa*, Aurelio Cortese (ATR)
2	Analysis of nonequilibrium neuronal dynamics by the state-space kinetic Ising model	Ken Ishihara* (Kyoto Univ.), Hideaki Shimazaki (Hokkaido Univ.)
3	心の風景はみんな違う　～内的世界の多様性の探求～	高橋 英之*, 竹内 英梨香 (大阪大学)
4	Working memory-based and -free reward prediction in dual dopamine system of the basal ganglia	Tomohiko Yoshizawa* (1,2,4), Yuuto Miyamura (2), Yuta Ochi (3), Riichiro Hira (2), Makoto Funahashi (1), Yutaka Sakai (4), Yilong Cui (3) Yoshikazu Isomura (2,4) (1. Hokkaido Univ., 2. Tokyo Medical and Dental Univ., 3. RIKEN, BDR, 4. Tamagawa Univ.)
5	Reservoir Splitting method for EEG-based Emotion Recognition	Anubhav*, Kantaro Fujiwara (U. Tokyo)
6	Virtual Reality experience of active flight reduces the fear response to heights	Misako Fujino* (Osaka Univ., NICT), Hideyuki Ando (Osaka Univ., Osaka Univ.), Masahiko Haruno (NICT, Osaka Univ.)
7	Elucidation of time perception by intracranial electrocorticography -How the Past, Present, and Future are represented-	Takamasa Ishiuchi* (1), Takufumi Yanagisawa (1), Shinji Nishimoto (2), Masayuki Asahara (3), Yuya Fujita (1), Ryohei Fukuma (1), Takamitsu Iwata (1), Naoki Tani (1), Satoru Oshino (1), Hui Ming Khoo (1), Haruhiko Kishima (1) (1. Osaka Univ. 2. CiNet, NICT, 3. National Institute for Japanese Language and Linguistics)
8	映画視聴時fMRIデータからの知覚画像再構成	可部泰生*, 笹井俊太朗（株式会社アラヤ）
9	Opponent Learning with Different Representations in the Cortico-Basal Ganglia Pathways Can Develop Obsession-Compulsion Cycle	Reo Sato* (†), Kanji Shimomura (†), Kenji Morita* (U. Tokyo)
10	Confidence Prediction Error: A Metacognitive Monitoring and Teaching Signal in a Reward-Based Problem-Solving	Soan Kim* (1, 2), Aurelio Cortese (1), David Soto (2) (1. ATR, 2. BCBL)
11	Causality analysis by embedding entropy across cortical areas of marmoset during upper-limb movement tasks	Yukako Yamane* (1), Teppei Ebina(2), Akitaka Sasagawa (2), Shin-ichiro Terada (2), Masato Uemura (2), Kenichi Ohki(2), Masanori Matsuzaki(2), Kenji Doya(1) (1. OIST, 2. U. Tokyo)
12	Selecting genes related to side effects of COVID-19 vaccine using tensor decomposition-based unsupervised feature selection	Mamoru Shimo* (1), Y-h. Taguchi (2), Shinya Ikematsu (3), Ryota Miyata (1)　(1. U. Ryukyus, 2. Chuo Univ., 3. Okinawa College)
13	Acquiring inverse kinematics through motor babbling for a pneumatic robot arm	Andreas Gassilloud* (1), Yuji Kawai (2), Hiroshi Atsuta (2), Erhan Oztop (2), Hisashi Ishihara (2), Minoru Asada (2,3), (1. U. Groningen, 2. Osaka Univ., 3. NICT/Chubu Univ/IPUT)
14	The metacognitive link between detection and discrimination tasks	Hugo Six* (1), Mahiko Konishi (2), Mitsuo Kawato (1), Hakwan Lau (3), Aurelio Cortese (1) (1. ATR, 2. École Normale Supérieure, 3. RIKEN CBS)
15	自由エネルギー原理に基づくリスク選択行動における葛藤のデータ駆動的解読	東野伊織* (1), 横山寛 (1), 雨森賢一 (2), 本田直樹 (1,2) (1. 広島大学, 2. 京都大学)
16	視覚刺激と牽引錯覚による他者性の創発と自己への影響	中山一輝* (1), 高橋英之(1), 伴碧(1), 小谷尚樹(1), 仲田佳弘(2), 石黒浩(1) (1. 大阪大学, 2. 電気通信大学)
17	Locally weak inhibition in spiking neural networks globally disrupts information transmission	Jihoon Park* (1,2), Yuji Kawai (2), Minoru Asada (1,2,3,4) (1. CiNet, NICT, 2. Osaka Univ. 3. Chubu Univ., 4.IPUT)
18	Small random neural networks orthogonally oscillate to learn long-term motor timing/patterns	Yuji Kawai* (1), Jihoon Park (1,2), Ichiro Tsuda (3), Minoru Asada (1,2,3,4) (1. Osaka Univ. 2. NICT, 3. Chubu Univ. 4. IPUT)
19	Visuomotor learning response modulated with the sensory prediction error rather than feedback response and target error	Yuto Makino*, Shogo Koide, Toshiki Kobayashi, Daichi Nozaki (U. Tokyo)
20	Evaluations of artifact removal for EEG-fMRI simultaneous measurements using a carbon-wire loop	Tomohiko Kishi* (1), Takeshi Ogawa (1), Reinmar Kobler (1,2), Toshikazu Kuroda (1), Mizuki Tsutsumi (1), Motoaki Kawanabe (1,2) (1. ATR, 2. RIKIEN-AIP)
21	Canonical Correlation Analysis with Fused-Lasso for Identifying Common Causes of Heart Rate Variability and Phenotypic Information	Sutashu Tomonaga* (OIST), Soheil Keshmiri, Haruo Mizutani, Kenji Doya
22	Neural connectivity among different layers changes at different brain states	Yuzhe Li*, Kenji Doya (OIST)
23	Cognitive flexibility associated with respiratory cardiopulmonary dynamics	Atsushi Narita*, Hoshinori Kanazawa, Shogo Yonekura, Yasuo Kuniyoshi (U. Tokyo)
24	Does the neural network "see" art?	Takuya Anzai* (1), Toshinori Chiba (1), Aurelio Cortese (1), Takatomi Kubo (1,2)　(1. ATR, 2. NAIST)
25	Interpretation of the standard inter-area laminar pattern of projections based on several computational models of the neocortex	Yoshimasa Tawatsuji (1), Yudai Suzuki (2), Hiroshi Yamakawa* (2,3)　(1. Waseda Univ., 2. The Univ. of Tokyo, 3. The Whole Brain Architecture Initiative)
26	Sexually dimorphic accumbal circuit for fear extinction	植松朗* (東京大学ニューロインテリジェンス国際研究機構)
27	Win-stay, lose-shift learning strategy in human motor control	Tjasa Kunavar (1,3), Erhan Oztop (4,5), Mitsuo Kawato (6), Jan Babic* (1,2) (1. Jozef Stefan Institute, 2. U. Ljubljana, 3. Jozef Stefan International Postgraduate School, 4. Ozyegin Univ. 5. Osaka Univ. 6. ATR)

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