

Poster Session Program		Jan 9, 2024	21:00 - 23:00
1	Comparing methods for depicting fMRI neural dynamics	Shinya Chiyohara* (1), Tomohisa Asai (1), Hiroshi Imamizu (1, 2) (1. ATR, 2. Tokyo Univ.)	
2	Discretized continuous EEG state transitions demonstrate different features with aging	Shiho Kashihara* (1), Tomohisa Asai (1), Hiroshi Imamizu (1,2) (1. ATR, 2. U. Tokyo)	
3	Brain and Autonomic Nerve Activities related to Competitive Performance in Elite Freestyle Snowboarders	Seiji Matsumura* (1), Ken Watanabe (2), Sorato Minami (1), Naoki Saijo (1), Yuuki Ooishi (1), Makio Kashino (1) (1. NTT Communication Science Laboratories, 2. Waseda Univ.)	
4	A Novel Approach to Capturing Multi-Time Scale Dynamics in Wearable Device Data using Latent Variable Modeling	Sutashu Tomonaga*, Haruo Mizutani, Kenji Doya (OIST)	
5	Thrifty hyper-altruism in major depression	Terezie Sedlinska* (1), Christiane Mühle (2), Johannes Kornhuber (2), Bernd Lenz (3), Kenji Doya (1) (1. OIST, 2. Friedrich-Alexander Universität, Erlangen-Nürnberg, 3. Zentralinstitut für seelische Gesundheit, Mannheim)	
6	Inferring community structures of the Drosophila brain connectome via unsupervised network embedding	Xiyang Sun* (Riken Center for Brain Science), Fumiyasu Komaki (The University of Tokyo)	
7	異なる状況における感情カテゴリーの構造の解析: 教師なし最適輸送法によるアプローチ	浅沼遥香* (東京大学), 間島真子, 堀井隆斗, 西本 伸志, 大泉匡史	
8	Dopamine dynamics in striatal striosome compartments during classical and operant conditioning	Tomohiko Yoshizawa* (Hokkaido University), Makoto Funahashi	
9	Introduction of optical imaging data analysis tool, OptiNiSt	Yukako Yamane* (OIST), Yuzhe Li, Carlos Enrique Gutierrez, Takayuki Hashimoto, Keita Matsumoto, Shogo Akiyama, Rei Hashimoto, Kenichi Ohki, Kenji Doya	
10	Brain connectivity pattern following nightly gamma hydroxybutyrate is driven by regional GABA/glutamate balance	moved to No.21 on the 2nd day	
11	Visual attention mechanisms in video viewing: A study of saliency map and eye movement comparison	Y. Nagasawa*(1), K. Fujimoto(2), K. Hayashi(2,3), C. Kinkyo(1), R. Katayama(2,3), S. Ishii(2,3) (1. School of Engineering, Kyoto University, 2. Graduate School of Informatics, Kyoto University, 3. ATR Neural Information Processing Laboratories)	
12	Gamma-band synchrony dynamically changes between MT and LIP during flexible decision making	Yuki Suda*, Takanori Uka (Department of Integrative Physiology, Graduate School of Medicine, University of Yamanashi)	
13	Variations in Personal Music Tastes are Reflected in the Synchronization of fMRI Signals across Individuals	Chiyu Maeda*, Satoshi Nishida (CiNet, NICT; Graduate School of Frontier Biosciences, Osaka University)	
14	Emotion modulation may explain suicide trend differences across age and sex after hazardous events	Toshinori Chiba* (ATR), Anzai Takuya (ATR), Nao Kobayasi (KDDI Research), Fumiya Nakai (NAIST), Misa Murakami (ATR), Masanori Nagamine (National Defense Medical College), Aurelio Cortese (ATR)	
15	Linking the expression of neurotransmitter-related genes to neural representations of reward	Kaosu Matsumori* (Tamagawa Univ.), Kana Matsuyanagi, and Kenji Matsumoto	
16	Eye movements as the state-predictor of the self	Kentaro Hiromitsu*, Tomohisa Asai, Hiroshi Imamizu (ATR)	
17	Adaptive control of a robot arm using modular reservoir computing	Yuji Kawai* (Osaka Univ.), Hiroshi Atsuta (Osaka Univ.), and Minoru Asada (IPUT, Osaka Univ., Chubu Univ., and NICT)	
18	Neural Architecture Search for multi-reservoir system: An application study of emotion recognition	Anubhav*, Kantaro Fujiwara (The University of Tokyo)	
19	Chemogenetic suppression of the macaque lateral prefrontal cortex during memory- and visual-guided saccade tasks	Jiasen Jiang* (1), Mineki Oguchi (1), Ken-ichi Inoue (2), Masahiko Takada (2), Masamichi Sakagami (1) (1. Brain Science Institute, Tamagawa University, 2. Systems Neuroscience Section, Center for the Evolutionary Origins of Human Behavior, Kyoto University)	
20	Machine-learning Insights into the Possibility the Dorsomedial Striatum Encodes action behavior in Rats	Masachika Taniguchi* (1), Tsukasa Irei (1), Kenji Doya (2), Koji Kurata (1), Ryota Miyata (1) (1. University of the Ryukyus, 2. OIST)	
21	Cocaine-induced alterations in brain activity: a whole-brain, data-driven investigation	Mark Guinto* (1), Yuto Shimazaki (2), Satoshi Murashige (1), Katsuyuki Kunida (1), Atsushi Kasai (2), Junichiro Yoshimoto (1,3) (1. Fujita Health University, 2. Osaka University, 3. ATR)	
22	Low-dimensional feedback control model that utilizes redundant degrees of freedom	Moe Matsuda* & Jun Nishii (Yamaguchi University)	

1	Predicting Molecular and Cellular Biology Exam Grades from Medical Student's Responses to Course Questionnaires Using BERT	Yuta Torichigai* (†), Kohei Nakama* (†), Hidetsugu Torihara, Hidehito Kuroyanagi, Akio Yamashita, Mikio Suzuki, Ryota Miyata (University of the Ryukyus)
2	How do humans estimate action-outcome relations in an uncertain environment?	Naoyuki Okamoto* (1,2), Benedetto De Martino (3), Shin Ishii (1,2), Aurelio Cortese (2) (1. Kyoto Univ., 2. ATR, 3. Univ. Col. London, UK)
3	Neural mechanism underlying cognitive control of aversive inference	Xiaowei Gu*, Joshua Johansen (Laboratory for Neural Circuitry of Learning and Memory, Center for Brain Science, RIKEN)
4	In the motor cortex, serotonin, noradrenaline and dopamine dynamics align more with locomotion than reward or punishment.	Desforges, M*, Flotho, P, Kuhn, B, Doya, K (OIST)
5	Machine learning Modeling of Mouse Brain Activity during perceptual decision making task	cancelled
6	Measuring the wall cloud heights in the eye of the typhoon using neural radiance fields	Takuya Mori* (1), Eiji Kitajima (1), Hiroyuki Yamada (1), Kosuke Ito (2), Ryota Miyata (1) (1. University of the Ryukyus, 2. Kyoto University)
7	Improving accuracy of action recognition for infighting in sports using DeepLabCut	I Riku* (†), Sei Noah Pittman* (†), Takuya Mori (†), Eiji Kitajima (†), Ryota Miyata (University of the Ryukyus)
8	Neural bases for inference and decision-making in a character inference game	箕浦皓*(1), 片山梨沙 (1,2), 石井信 (1,2) (1. 京都大学, 2. ATR)
9	The evolution of the default mode network in mouse, rat, marmoset, macaque and human	Takuto Okuno*, Alexander Woodward (Connectome Analysis Unit, RIKEN Center for Brain Science)
10	Causal relationship between brain activities during complex hand movements and their age-related changes	Jihoon Park*, Gen Miura, Tomoyo Morita, Eiichi Naito (CiNet, NICT; Osaka Univ.)
11	Transcranial Static Magnetic Stimulation Dissociates the Causal Involvement of the Parietal Cortex in Spatial and Temporal Processing	Masakazu Sugimoto* (1,2), Ikko Kimura (3), Masamichi J. Hayashi (1,2) (1. Osaka University, 2. CiNet, NICT, 3. RIKEN Center for Biosystems Dynamics Research)
12	Data-driven selection of genes associated with schizophrenia using unsupervised feature extraction	Isshin Morine* (1), Y.-H. Taguchi (2), Ryota Miyata (1) (1 University of the Ryukyus, 2 Chou University)
13	The Neural Basis of Bayesian Inference in Scene Recognition	Kojiro Hayashi* (1,2), Risa Katayama (1,2), Keisuke Fujimoto (1,2), Wako Yoshida (2,3), Shin Ishii (1,2,4) (1. Kyoto University, 2. ATR, 3. University of Oxford, 4. IRCN)
14	Differences in the neural basis of charitable decision-making between proself and prosocial individuals	Mineki Oguchi* (1), Yang Li (2), Yoshie Matsumoto (3), Toko Kiyonari (4), Kazuhiko Yamamoto (5), Shigeki Sugiyama (5), and Masamichi Sakagami (1) (1. Tamagawa University, 2. Nagoya University, 3. Shukutoku University, 4. Aoyama Gakuin University, 5. Genesis Research Institute)
15	fMRIデータを用いたモデル非依存的因果推定手法の検討	今井 大輝(東京都立産業技術高等専門学校), 菅原 翔(東京都医学総合研究所) 定藤 規弘(立命館大学), 山本 哲也(東京都立産業技術高等専門学校)
16	The impact of social acceptance on the self-referential processing: an fMRI study	Yi Ding* (Tohoku University), Kentaro Oba, Ryo Ishibashi, Shinsuke Suzuki, Motoaki Sugiura
17	Multilayer imaging of the mouse motor cortex and modeling by reinforcement learning	Naohiro Yamauchi*, Sergey Zobnin, Kenji Doya (OIST)
18	神経細胞ネットワークの損傷耐性と自己修復性のin vitroモデリングに向けて	渡邊啓太*(東北大通研, 東北大院工), 山本英明(東北大通研, 東北大院工), 佐藤茂雄 (東北大通研, 東北大院工), 平野愛弓(東北大通研, 東北大AIMR, 東北大院工)
19	Dual automatic relevance determination for linear latent variable models and its application to calcium imaging data analysis	Yuzhe Li* (NAIST), Aki Funamizu, Bernd Kuhn, Kenji Doya
20	A COGNITIVE MODEL FOR LEARNING ABSTRACT RELATIONAL STRUCTURES FROM MEMORY-BASED DECISION-MAKING TASKS	Haruo Hosoya* (ATR & U-Tokyo) <small>(This is not a candidate for Young Poster Awards)</small>
21	Brain connectivity pattern following nightly gamma-hydroxybutyrate is driven by regional GABA/glutamate balance	F. Bavato* (Psychiatric University Hospital Zurich), F. Esposito, D.A. Dornbierer, B.B. Quednow, P. Staempfli, H.P. Landolt, E. Seifritz, O. G. Bosch