

Poster Session Program

Jan 8, 2020

21:00 - 23:00

1	Convergence Analysis of FORCE Learning Algorithm for Reservoir Computing	Tamura H*, Fujiwara K, Tanaka G (Univ of Tokyo)
2	Working memory performance of an echo state network with distributed time constants	Tomohiro Miki*, Yuji Kawai, Jihoon Park, Minoru Asada (Osaka Univ)
3	Failure as a reinforcement in motor learning	Kunavar T* (1), Camernik J (1), Kawato M (2), Oztop E (3), Babic J (1) (1. JSI, 2. ATR, 3. Ozyegin Univ)
4	Contrasting Human and Machine Intelligence for Program Comprehension	Itoh TD* (1), Kubo T (1), Ikeda K (1,2), Ikutani Y (1), Maruno Y (2), Hata H (1), Matsumoto K (1), Ikeda K (1) (1. NAIST, 2. KWU)
5	Simulating altered inference of uncertainty in autism spectrum disorders using a variational recurrent neural network model	Soda T*(1, 2), Ahmadi A(3), Tani J(4), Hoshino M(1), Honda M(1), Hanakawa T(1), Yamashita Y(1) (1. NCCNP, 2. TMDU, 3. CSIRO, 4. OIST)
6	Toward Identifying the Neural Basis of Programming Expertise: an fMRI Study with Expert Programmers	Yoshiharu Ikutani*(1), Takatomi Kubo(1), Satoshi Nishida(2), Hideaki Hata(1), Kenichi Matsumoto(1), Kazushi Ikeda(1), Shinji Nishimoto(2), (1.NAIST, 2.NICT CiNet)
7	Investigation of computational memory models	Taewon Park* (1), Inchul Choi (1), Kazushi IKEDA (2), Minhoo Lee (1) (1. Kyungpook National Univ, 2. Nara Institute of Science and Technology)
8	Deep transfer learning mediated by human brain information	Satoshi Nishida*(1), Yusuke Nakano(1), Blanc Antoine(1), Naoya Maeda(2), Masataka Kado(2), Shinji Nishimoto(1) (1. NICT, 2. NTT DATA)
9	Locally Weighted CNMPs for Generating Flexible Action Sequences	Alper Ahmetoglu (Bogazici University), Yunus Seker (Bogazici University), Erhan Oztop (Osaka University/Ozyegin University), Minoru Asada (Osaka University), Emre Ugur* (Bogazici University)
10	Representation and grounding of abstract concepts: a preliminary investigation	Ho-Ching Chiu*, Kenji Doya (OIST)
11	Formation of Connectivity between Spiking Neural Networks with Balanced Excitation and Inhibition	Jihoon Park*, Yuji Kawai, Minoru Asada (Osaka University)
12	EEG beta-rebound in response to perturbation during upright standing may reflect an active postural stabilization process	Nakamura A*, Suzuki Y, Milosevic M, Nomura T (Osaka Univ)
13	How Does a Client Feel Empathy from a Counselor? - Analyses of Speech Contents and Facial Expressions -	Chie Hieida*, Jyh-Jong Hsieh, Yuji Kawai, Minoru Asada (Osaka University)
14	Breast tumor and stroma Segmentation using U-Net	Taira H*, Miyata R, Kurata K, Sato W, Matsumoto K, Abe N, Takamatsu R, Matsumoto H, Yoshimi N (Ryukyuu Univ)
15	Limitations of data-driven approaches in the meteorology ~A case of automatic dvorac technique with CNN~	Higa M*, Nakama S, Ito K, Yamada H, Miyata R (Univ Ryukyuu)
16	Estimating Alzheimer's disease genes with unsupervised machine learning and enrichment analysis	Fujisawa K* (1), Ikematsu S (2), Miyata R (1) (1. Univ Ryukyuu, 2. NIT, Okinawa college)
17	Bus route proposal from the viewpoint of network analysis for University MaaS demonstration experiment in Okinawa	Shimoya Y*, Higa M, Yoshida H, Kamiya D, Miyata R (Univ Ryukyuu)
18	Typhoon intensity estimation from a satellite image using CapsNet	Nakama S*, Higa M, Ito K, Yamada H, Miyata R (Univ Ryukyuu)
19	Proposal of Exposure therapy Optimization based on symptom dynamics	Chiba T*, Ide K, Cortese A (ATR), et al.
20	MMNを用いたブロープ法の有効性の検討	三上慧吾*,浦川智和,今井謙太郎,小幡拓也,荒木修(東京理科大学)
21	vMMNは特性不安を反映しない	空閑弘将*,浦川智和,今仁拓弥,栗田佑騎,荒木修(東京理科大学)
22	聞き手の印象を左右する音楽的特徴のニューラルネットワークモデルによる解析	高橋秀岳*, 浦川智和, 荒木修(東京理科大学)
23	Reservoir based predictive coding model	Katori Y (Future University Hakodate)
24	Consciousness Boundary: Claustrum defines the imaginary area of the cortex	Hiroshi Yamakawa (RIKEN, WBAI)
25	Bayesian multiple clustering and its application to multimodal data analysis: Toward biological subtyping of mental disorders	Yoshimoto J* (1), Tokuda T (2,3), Shimizu Y (3), Doya K (3), Okada G (4), Takamura M (4), Okamoto Y (4), Yamawaki S (4) (1. NAIST, 2. ATR, 3. OIST, 4. Hiroshima Univ.)
26	Toward Realizing Reinforcement Learning in a Whole-Brain Spiking Neural Network Model	Gutierrez*(1),Lienard(1),Girad(2),Sun(3),Morteza(3),Yamaura(4),Igarashi(3),Yamazaki(4),Diesmann(5),Plesser(6),Arbutnott(1),Morin(7),Doya(1) (1.OIST,2.ISIR,3.RIKEN,4.UEC,5.INM-6.NMBU,7.TUM)
27	Investigating human effort vs. danger tradeoff in squat-to-stand movements via inverse reinforcement learning	Emir Arditi (1), Berkay Bayram(1), Tjasa Kunavar(2), Emre Ugur(3),Jan Babic(2), Erhan Oztop*(1,4) (1.Ozyegin University 2.Jozef Stefan Institute, 3.Bogazici University, 4.Osaka University)

*: Presenter

Poster Session Program

Jan 9, 2020

20:00 - 23:00

1	The effect of a small-world topology on synchronization between two Kuramoto-oscillator networks	Kentaro S*, Minoru A, Jihoon P, Yuji K (Osaka Univ)
2	In vivo calcium imaging with a single-cell resolution using "COSMO-Scope", a fast scanning and wide-field two-photon microscope	Ota K*, Murayama M (RIKEN CBS), et al.
3	Different statistical relationship between self-motion and visual motion could alter the spatiotemporal tuning of quick visuomotor responses	Daiki Nakamura*, Hiroaki Gomi (NTT Communication Science Labs.)
4	Divisively normalized neural processing of uncertain visual feedback by the visuomotor adaptation system	Yuto Makino*(1), Hayashi Yakuji(2,3), Daichi Nozaki(1) (1. Tokyo Univ, 2. Harvard Uni, 3. Tokyo Univ of Agriculture and Technology)
5	Behavior state space analysis and behavior control using machine learning	Keita Mori*, Haoyu Wang, Naohiro Yamauchi, Ken Sato, Yu Toyoshima, Yuichi Iino (Univ. of Tokyo)
6	Multiple Animal Pose Tracking for Social Behavior Analysis	Murashige S*, Kubo T (NAIST), Nagasawa M, Kikusui T (Azabu Univ), Ueda E, Takimoto-Inose A (Hokkaido Univ), Ikeda K (NAIST)
7	Learning Dynamics of Two-layered Neural Network with Batch Normalization – Statistical Mechanical Analysis	Shiro Takagi* (Univ Tokyo), Yuki Yoshida (Univ Tokyo), Masato Okada (Univ Tokyo)
8	Localized Generations with Self-Supervised Meta-Learning	Yoshihiro Nagano*, Shiro Takagi, Yuki Yoshida, Masato Okada (UTokyo)
9	Development and applications of 3D markerless motion capture systems for analyzing monkey behavior	Matsumoto J*, Nishijo H (Univ of Toyama), Mimura K (Natl Inst Radiological Sci), Inoue K (Kyoto Univ), Go Y (National Inst Nat Sci), Shibata T (Kyushu Inst Tech)
10	Visual colour-temperature relationship is shared by textures of various materials	Terashima H*† (1), Ho HN† (1), Wakamatsu K (2), Kwon J (3, 4), Sakamoto M (3), Nakauchi S (2), Nishida S (1, 5) (1. NTT, 2. Toyohashi Tech, 3. UEC, 4. Kyoto Univ of Education, 5. Kyoto Univ) (†Equal)
11	A preliminary study on quantification of behavioral changes after sciatic nerve ligation in rats	Panyawut Sriesaranusorn*(1), Saeka Shimochi(2), Naoki Ono(1), Emrah Yarkin(2), Kazushi Ikeda(1), Junichiro Yoshimoto(1) (1. NAIST, 2. Univ. Turku)
12	The Self-enhancement Effect at the Implicit Perceptual and Explicit Evaluation Levels: Their Complementary Relationship and the Dominance of the Former in the Eastern	Ding Y*(1,2), Deng J(2), Sugiura M(1), Hu CP(3) (1.Tohoku Univ, 2. Hubei Univ, 3. Univ Medical Center Mainz)
13	Ventral midbrain to M1 pathway contributes to motivated motor outputs in humans	Sho K. Sugawara*(1), Yoshihisa Nakayama(1), Tetsuya Yamamoto(2), Yuki H. Hamano(2), Masaki Fukunaga (2,3), Norihiro Sadato(2,3), Yukio Nishimura (1) (1. TMIIMS, 2. NIPS, 3. SOKENDAI)
14	Development of the smart-speaker skill to foster the ability of thinking logically like programming –Applying deterministic finite automaton to programming education–	Yoshida H* (1), Kanemune S (2), Okamoto M (1), Hinokuma T (1), Miyata R (1) (1. Univ Ryukyuu, 2. OECU)
15	Applying YOLO to tracking players and a ball in tennis games	Yoshida S*, Fujisawa K, Kitajima E, Miyata R (Univ Ryukyuu)
16	On the possibility of the existence of cells to reflect one's behavior in the VP and NAc regions	Sugiura I*(1),Irei T(1),Kurata K(1),Doya K(2),Miyata R(1) (1.Univ Ryukyuu,2.OIST)
17	Feature extraction of human joint angles for wheel gymnastics using random forests	Kitajima E* (1), Sato T (2), Miyata R (1) (1. Univ Ryukyuu, 2. NIT, Okinawa College)
18	知覚・運動系間の時間間隔の共通表現が時間的エラーモニタリングの低感度を説明する Common representation of time interval between perceptual and motor systems explains low sensitivity of temporal error monitoring	Mitani K*, Sakai Y (Tamagawa Univ), Kashino M (NTT, Tokyo Tech)
19	マウスにおける巣作り行動の責任脳部位の探索	田川菜月*, 森啓太, 古戒道典, 饗場篤, 飯野雄一(東大)
20	早期視覚情報処理の抑制がWM performanceに反映されるか?	小幡拓也*, 浦川智和, 和田莉奈, 荒木修 (東京理科大学)
21	顔感情が視覚的意識へのアクセスに与える影響	伊藤裕樹*, 浦川智和, 高橋恵里香, 栗田佑騎, 今仁拓弥, 荒木修 (東京理科大学)
22	両眼視野闘争における Flash suppression / facilitation の神経回路モデル	後藤啓嗣*, 浦川智和, 荒木修 (東京理科大学)
23	時間的注意によるAffective Primingの促進はISIに依存するのか	今仁拓弥*, 浦川智和, 大西剛仁, 栗田佑騎, 荒木修 (東京理科大学)
24	Quantitative models reveal the cortical representation of linguistic information modulated by selective attention	Tomoya Nakai* (1,2), Hiroto Q. Yamaguchi (1,2), Shinji Nishimoto (1,2) (1. NICT, 2. Osaka Univ)
25	統合失調症における脳内意味ネットワーク異常:エンコーディングモデルとグラフ理論解析を用いて	松本有紀子*(1),西田知史(2),孫樹洛(3),村上晶郎(3),吉川長伸(4),林隆介(5),西本伸志(2),高橋英彦(1) (1.医科歯科大,2.CiNet,3.京大,4.阪大,5.産総研)
26	Eigenvector centrality reveals profile of cerebral network during movie-watching	Akitoshi Ogawa (Juntendo Univ)
27	物体想起時の脳活動を利用した意思表示	松尾 健

*: Presenter, †: equally contributed