

Poster / speaker	title	authors
P1-01 Tomoya Taguchi	Network cores of the human functional connectome	Tomoya Taguchi (1), Jun Kitazono (1), Shuntaro Sasai (2), Masafumi Oizumi (1) (1. Graduate School of Arts and Sciences, The University of Tokyo, 2. Araya Inc.)
P1-02 Matthew J. Holland	New learning systems through novel generalization metrics	Matthew J. Holland (1) (1. Osaka University)
P1-03 Kotaro Furuya	Neural Mechanisms of Prepulse Inhibition in Drosophila Larvae	Kotaro Furuya (1), Yuki Katsumata(1), Masayuki Ishibashi (1), Takako Morimoto (2), Toru Aonishi (1) (1. Tokyo Institute of Technology, 2. Tokyo University of Pharmacy and Life Science)
P1-04 Atsushi Takagi	A motoric measure of handedness using a smartphone	Atsushi Takagi (1), Hiroaki Gomi (1) (1. Sensory and Motor Research Group, NTT Communication Science Laboratories)
P1-05 Atsushi Kodama	Dimensionality estimation of neural responses in monkey V4	Atsushi Kodama(1), Ko Sakai(1) (1. Department of Computer Science, University of Tsukuba)
P1-06 Kensuke Yoshida	Synaptic plasticity during sleep maximizes information transmission in a spiking neuron model	Kensuke Yoshida (1,2), Taro Toyozumi (1,2) (1. RIKEN Center for Brain Science, 2. Graduate School of Information Science and Technology, The University of Tokyo)
P1-07 Kei Majima	Quantum-inspired principal component analysis for exponentially large dimensional data	Kei Majima (1), Naoko Koide-Majima (2), Noriaki Yahata (1)(1.National Institutes for Quantum and Radiological Science and Technology, 2.National Institute of Information and Communications Technology)
P1-08 Shunsuke Kamiya	Quantifying State Transition Cost in Stochastic Neural Systems	Shunsuke Kamiya (1), Genji Kawakita (1), Shuntaro Sasai (2), Jun Kitazono (1), Masafumi Oizumi (1) (1. Graduate School of Arts and Sciences, The University of Tokyo, 2. Araya Inc.)
P1-09 Taira Kobayashi	High-performance simulation of multi-compartment models using an explicit method	Taira Kobayashi, Rin Kuriyama, Tadashi Yamazaki (Graduate School of Informatics and Engineering, The University of Electro-Communications)
P1-10 Gennosuke Tasaka	Analysis of intercortical associative-responses depending on the second-order conditioning	Gennosuke Tasaka(1), Minoru Tsukada(2), Takeshi Aihara(1,2)(1.Graduate School of Engineering, Tamagawa University, 2. Brain Science Institute, Tamagawa University)
P1-11 Yukako Yamane	Signal causality analysis of marmoset wide-field calcium imaging	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. Univ. Tokyo)
P1-12 Kensuke Takada	A spiking neural network model for acquisition and retrieval of the hippocampal replay using cholinergic suppression and theta rhythm	Kensuke Takada(1), Tateno Katsumi(1)(1. Graduate School of Life Science and Systems Engineering, Kyushu Institute of Technology)
P1-13 Jin Nakamura	Computational Model of Motion Planning Based on Reward-Modulated Reservoir Computing with Dynamic Synapse	Jin Nakamura(1), Yuichi Katori(1) (1. Future University Hakodate)
P1-14 Tomoya Hirayama	Development of distributed brain-body simulation environment Using Neurobotics Platform	Tomoya Hirayama (1), Rin Kuriyama (1), Taiki Yamada (1), Tadashi Yamazaki (1) (1. Graduate School of Information Science and Engineering)
P1-15 Naoki Mochizuki	Selection of STDP synapses in feedback connections	Naoki Mochizuki(1),Mihoko Ishida(1),Hideaki Yamamoto(2),Takashi Tani(1) (1.Faculty of Science and Engineering,Waseda University, 2.Research Institute of Electrical Communication Tohoku University)
P1-16 Arisa Fujimoto	Symmetry analysis of eigenvalue distribution of recurrent neural networks	Arisa Fujimoto (1,2), Hideaki Yamamoto (1,2), Satoshi Moriya (2), Shigeo Sato (1,2) (1. Graduate School of Engineering, Tohoku Univ., 2. Research Institute of Electrical Communication, Tohoku Univ.)
P1-17 Yoshiyuki, R, Shiraishi	Hierarchical representation of receptive field property in deep convolutional neural network (DCNN)	Yoshiyuki R. Shiraishi(1, 2), Takahisa M. Sanada(3) and Tomoyouki Naito(1) (1. Graduate School of Medicine, Osaka University, 2. Tobacco Science Research Center, Japan Tobacco Inc, 3. Faculty of Softw
P1-18 Bungo Konishi	Comparison of complex- and real-valued reservoir computing for aspect classification by using interferometric SAR data	Bungo Konishi (1), Akira Hirose (1), Ryo Natsuaki (1) (1. Graduate School of Engineering, The University of Tokyo)
P1-19 Hekiru KURAKAKE	Stimulation and recording of artificial neuronal circuits using two-needle electrodes and fluorescence calcium imaging	Hekiru Kurakake (1), Naoki Mochizuki (1), Sho Ikeda (1), Hideaki Yamamoto (2), Ayumi Hirano-Iwata (2,3), Takashi Tani (1) (1. Waseda Univ., 2. Tohoku Univ. RIEC, 3. Tohoku Univ. AIMR)
P1-20 Takuya Koumura	Psychophysical Detection Sensitivity in a Neural Network Trained for Sound Classification	Takuya Koumura (1), Hiroki Terashima (1), Shigeto Furukawa (1) (1. NTT Communication Science Laboratories)
P1-21 Yuto Kurihara	The Comparison of Interpersonal Neural Network Between Acquaintance and Stranger pairs	Yuto Kurihara (1), Toru Takahashi(2), Rieko Osu(2) (1. Graduate School of Human Science, Waseda University,2. Faculty of Human Science, Waseda University)

P1-22	Satoru Mishima	Investigation of individual differences on EEG classifying three grasping postures	Satoru Mishima (1), Kosei Shibata (1), Maria Rodalyn V. Sanchez (1), Hiroaki Wagatsuma (1,2) (1. LSSE, Kyushu Institute of Technology, 2. RIKEN CBS)
P2-01	Makoto Fukushima	Signal propagation models for packet-based communication in structural brain networks	Makoto Fukushima (1,2), Kenji Leibnitz (2,3) (1. Nara Institute of Science and Technology, 2. National Institute of Information and Communications Technology, 3. Osaka University)
P2-02	Uta Fujimoto	Section selection for brain tumor segmentation on multimodal MRI images using deep neural network	Uta Fujimoto, Seiki Konishi, Akitoshi Ogawa (Juntendo University)
P2-03	Naoki Nagamatsu	Robustness Evaluation of Direct Feedback Alignment Learning for Analog VLSI Neural Networks	Naoki Nagamatsu(1), Hideki Murakami(1), Seiji Uenohara(2), Takashi Morie(2) (1. National Institute of Technology, Kurume College, 2. Kyushu Institute of Technology)
P2-04	Nobuhiko Wagatsuma	Pathological Effects of an Excitation/Inhibition Imbalance in a Microcircuit Model Involving Three Inhibitory Neuron Classes	Nobuhiko Wagatsuma (1), Sou Nobukawa (2), Tomoki Fukai (3) (1. Toho University, 2. Chiba Institute of Technology, 3. Okinawa Institute of Science and Technology)
P2-05	Asaki Kataoka	Acquisition of Categorical Latent Representation of Color	Asaki Kataoka (1), Masafumi Oizumi (1) (1. Graduate School of Arts and Sciences, The University of Tokyo)
P2-06	Ryoma Tanase	Feature extraction for tactile shape discrimination examined by principal component analysis	Ryoma Tanase (1), Hiroaki Gomi (1), (1. NTT Communication Science Labs.
P2-07	Noriyoshi Ichinose	A way of machine-learning to generate categories by constraint of logical inference	Noriyoshi Ichinose
P2-08	Kazuhiro Sakamoto	The golden mean in dynamic reinforcement learning	Kazuhiro Sakamoto (1,2), (1. Faculty of Medicine, Tohoku Medical and Pharmaceutical University, 2. Tohoku University, Graduate School of Medicine)
P2-09	Taro Maeda	A model of the interaction between conscious memory and subconscious learning that self-organizes across the whole brain-Utility of zero representation Part8-	Taro Maeda(1,2), Naoki Nishio(1), (1. Information Science & Technology, Osaka University, 2. CiNet, NICT)
P2-10	Hiroshi Ishiki	Basis of Minimum Variational Free Energy Principle and Its Numerical Applications	Hiroshi Isshiki, Institute of Mathematical Analysis (Osaka)
P2-11	Katsuhiko Hasegawa	Numerical simulation of an inferior olivary network model composed of neurons with fine spatial structures	Katsuhiko Hasegawa (1), Taira Kobayashi (1), Masashi Oogaki (1), Tadashi Yamazaki (1) (1. Graduate School of Informatics and Engineering, The University of Electro-Communications)
P2-12	Genji Kawakita	Neural manifold alignment for the foundation of brain-to-brain communication	Genji Kawakita (1), Masafumi Oizumi (1) (1. Graduate School of Arts and Sciences, The University of Tokyo)
P2-13	Yuichi Iino	Observation and simulation of C. elegans whole-brain neural activities	Yuichi Iino (1), Daiki Nagata (1), Yu Toyoshima (1), Hirofumi Sato (1), Manami Kanamori (1), Koyo Kuze (1), Moon-Sun Jang (1), Wu Stephen (2), Oe Suzu (3), Yoko Murakami (3), Sayuri Kuge (3), Osamu Hi
P2-14	Takashi Shinozaki	Motion feature extraction by brain-inspired unsupervised learning	Takashi Shinozaki(1) (1. NICT CiNet)
P2-15	Akira Hirose	Influence of regularity in readout electrode arrangement on the performance of a spin-wave reservoir computing chip	Takehiro Ichimura (1), Ryosho Nakane (1), Gouhei Tanaka (2), Akira Hirose (1) (1. Graduate School of Engineering, The University of Tokyo, 2. IRCN, The University of Tokyo)
P2-16	Kaaya Tamura	Discrimination of stimulus sequences by dendritic computation	Kaaya Tamura, Taira Kobayashi, Tadashi Yamazaki (Graduate School of Informatics and Engineering, The University of Electro-Communications)
P2-17	Bun Seiichi	An Active Charge Balancer for an Array of Neural Stimulators	Seiichi Bun(1),Megumi Akai(2),Tetsuya Asai(2)(1.Graduate School of Information Science and Technology,Hokkaido University,2.Faculty of Information Science and Technology,Hokkaido University)
P2-18	Takuma Sumi	Evaluation of pattern classification properties of artificial neuronal networks using reservoir computing	Takuma Sumi (1), Hideaki Yamamoto (1), Satoshi Moriya (1), Taiki Takemuro (1), Tomohiro Konno (1), Shigeo Sato (1), Ayumi Hirano-Iwata (1) (1. Tohoku University)
P2-19	Naoki Nishio	A Multilayer Perceptron Learns Orthogonal Complementary Spaces in Eigenfunction Synchronicity Model -Utility of zero representation of time-discretized information in time-continuous phenomena Part 9-	Naoki Nishio(1), Taro Maeda(1,2) (1. Graduate School of Information Science and Technology, Osaka University, 2. Center for Information and Neural Networks)
P2-20	Tomohito Izumi	Two-Stream Visual Information Processing Model Based on Reservoir Computing and Predictive Coding	Tomohito Izumi (1), Yuichi Katori (1,2) (1. School of Systems Information Science, Future University Hakodate, 2. Institute of Industrial Science, The University of Tokyo)
P2-21	Takeshi Kanda	Similar structures emerge in local cortical networks during quiet wake and NREM sleep	Takeshi Kanda (1), Takehiro Miyazaki (1), Kotaro Sakamoto (2), Hideitsu Hino (2), Masashi Yanagisawa (1) (1. IHS, University of Tsukuba, 2. The Institute of Statistical Mathematics)