新学術領域研究「人工知能と脳科学の対照と融合」ポスター演題

Scientific Research on Innovative Areas: Artificial Intelligence and Brain Science Poster Presentation List

<A01>

<公募班/Publicly Research Group>

A01-01 (Board No.1)

Modeling responses to visual stimuli in the mouse cortex with recurrent neural networks

Emanuele Frandi, Tadashi Tsubota, Andrea Benucci (Dr. Benucci group)

A01-02 (Board No.2)

Vision-value converter trained by transfer learning of VGG Junichi Chikazoe, Haruki Niwa, Ryutaro Uchiyama, Takaaki Yoshimoto, Norihiro Sadato

(Dr. Chikazoe group)

A01-03 (Board No.4)

Chunk learning from complex sequences by mutually supervising recurrent neural networks

Toshitake Asabuki, Naoki Hiratani, Tomoki Fukai (Dr. Fukai group)

A01-04 (Board No.6)

Reverse replay strengthens forward pathways to reward through Hebbian learning and short-term depression

Tatsuya Haga, Tomoki Fukai

(Dr. Fukai group)

A01-05 (Board No.8)

HDBCellScan: density based clustering method for fast ROI detection in two photon imaging data

Kosuke Hamaguchi

(Dr. Hamaguchi group)

A01-06 (Board No.10)

Stacked pooling and linear components estimation (SPLICE) and its application to neuroscientific data analysis

Jun-ichiro Hirayama, Aapo Hyvarinen, Takeshi Ogawa, Hiroki Moriya, Motoaki Kawanabe

(Dr. Hirayama group)

A01-07 (Board No.12)

Analysis of the Latent Space in the Predictive VAE GAN

Takashi Ikegami

(Dr. Ikegami group)

A01-08 (Board No.14)

The Analysis of Catastrophic Forgetting and Intrinsic Motivated Neural Net Itsuki Doi, Atsushi Masumori, Takashi Ikegami (Dr. Ikegami group)

A01-09 (Board No.15)

Inferring the source of fluctuations in spike trains. Shigeru Shinomoto
(Dr. Shinomoto group)

A01-10 (Board No.16)

ECoG signals with human life-log for AI Takufumi Yanagisawa (Dr. Yanagisawa group)

A01-11 (Board No.17)

semi-supervised semantic segmentation based on backpropagation and reinceforcememt learning
Wataru Shimoda, Keiji Yanai
(Dr. Yanai group)

A01-12 (Board No.19)

Implementing multiple functions on a single network and its applications Keiji Yanai, Takumi Ege (Dr. Yanai group)

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A01-13 (Board No.21)

Experimental investigation of hierarchical Bayesian inference in sensory and motor cortices

Yuzhe Li Y, Sergey Zobnin, Kenji Doya (Dr. Doya group)

A01-14 (Board No.23)

Robust Dynamic Programming Tadashi Kozuno, Eiji Uchibe, Kenji Doya (Dr. Doya group)

A01-15 (Board No.24)

The optimal-baseline estimator is not the optimal baseline-estimator Paavo Parmas, Jan Peters, Kenji Doya (Dr. Doya group)

A01-16 (Board No.26)

Columnar scale representation of faces in the human inferotemporal cortex Topi Tanskanen, Chien-Hui Kao, R. Allen Waggoner, Kenichi Ueno, Keiji Tanaka, Kang Cheng

(Dr. Tanaka group)

<A02>

<公募班/Publicly Research Group>

A02-17 (Board No.28)

Retrograde transneuronal double labeling with fluorescent rabies viral vectors Ken-ichi Inoue, Maki Fujiwara, Shiori Uezono, Soshi Tanabe, Hiroaki, Ishida, Eiji Hoshi, Masahiko Takada (Dr. Inoue group)

A02-18 (Board No.30)

Neural correlates of reward based motor learning Jun Izawa, Yuki Ueyama, Ryu Ohata, Taisei Sugiyama, Qi Li, Nicolas Schweighofer, Hiroshi Imamizu (Dr. Izawa group)

A02-19 (Board No.31)

Cooperative Reinforcement Learning with Off-Policy Correction Eiji Uchibe (Dr. Uchibe group)

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A02-20 (Board No32)

Modulation difference in visuomotor responses in implicit and explicit motor tasks depending on postural stability
Naotoshi Abekawa, Hiroaki Gomi
(Dr. Gomi group)

A02-21 (Board No.33)

Automatic adjustment of walking speed by optic flow is invariant against surrounding wall distance
Shinya Takamuku, Tomoyuki Nagasawa, Hiroaki Gomi
(Dr. Gomi group)

A02-22 (Board No.35)

Rotated visual feedback of self-movement affects long-latency stretch reflex Sho Ito, Hiroaki Gomi
(Dr. Gomi group)

<A03>

<公募班/Publicly Research Group>

A03-23 (Board No.37)

Dialogue between the predictive coding and brain mechanism for active inference So Fujimoto, Mao Noguchi, Akihiko Nikkuni, Yutaka Komura (Dr. Komura group)

A03-24 (Board No.39)

Social context segmentation analysis in a primate model of Autism Spectrum Disorder

Koki Mimura, Jumpei Matsumoto, Daichi Mochihashi, Kenichiro Shimatani, Takafumi Minamimoto

(Dr. Mimura group)

A03-25 (Board No.41)

Feature extraction from resting state fMRI using 3D convolution neural network Yuichi Yamashita, Ryoichi Nakajo, Shingo Murata, Yosuke Ogata, Tetsuya Ogata (Dr. Yamashita group)

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A03-26 (Board No.43)

Clustering by Deep Mixture Model Kaede Hayashi, Tomoharu Iwata, Tadahiro Taniguchi (Dr. Taniguchi group)

ポスターボードサイズ:幅 90cm × 高さ 210cm

最大ポスターサイズ:幅 90cm × 高さ 180cm

*右上部のパネル番号(20cmx20cm)スペースと足部分 10cm を避けてください。

ポスター発表者リストと会場レイアウト図にて、ポスター掲示指定番号をご確認ください。 対応するポスターボードにポスターを掲示ください。

押しピンは事務局にてご用意いたします。

ポスターセッションは、1階の特別会議室にて行われます。

ポスター掲示は、10 時以降に掲示してください。ポスター発表終了後(20 時)、速やかに剥がしていただき、お持ち帰りください。

Poster board size: Width 90cm Height 210cm

Maximum poster size: Width 90cm Height 180cm

*Please avoid the space for the poster number (20cmx20cm) and the lower part (10cm legs) of the panel.

Please see the presenters' list and the layout of the meeting room.

Please verify your poster number from the poster presenters' list. Be sure to identify the appropriate board number for your poster.

Thumbtacks will be available onsite for mounting the posters.

The poster session will take place in the special meeting room on the 1st floor.

Posters may be set up after 10:00AM and have to be removed by 20:00.