

Poster Session 1

Poster1-1 : Applications

Room International Conference Hall II

Data Analysis of Correlation Between Project Popularity and Code Change Frequency

Dabeeruddin Syed¹, Jadran Sessa¹, Andreas Henschel¹, Davor Svetinovic¹

¹Masdar Institute of Science and Technology

Hidden space neighbourhood component analysis for cancer classification

Li Zhang¹, Xiaojuan Huang¹, Bangjun Wang¹, Fanzhang Li¹, Zhao Zhang¹

¹Soochow University

Prediction of Bank Telemarketing with Co-training of Mixture-of-Experts and MLP

Jae-Min Yu¹, Sung-Bae Cho¹

¹Yonsei University

Prioritising Security Tests on Large-Scale and Distributed Software Development Projects by Using Self-Organised Maps

Marcos Alvares¹, Fernando Lima Neto², Tshilidzi Marwala¹

¹University of Johannesburg ²University of Pernambuco

Android Malware Detection Method Based on Function Call Graphs

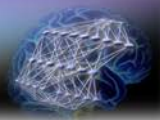
Yuxin Ding¹, Siyi Zhu¹, Xiaoling Xia¹

¹Harbin Institute of Technology Shenzhen Graduate School

Proposal of singular-unit restoration by focusing on the spatial continuity of topographical statistics in spectral domain

Kazuhide Ichikawa¹, Akira Hirose¹

¹The University of Tokyo



Poster1-2 : Computational & Cognitive Neurosciences

Room International Conference Hall II

The Impact of Adaptive Regularization of the Demand Predictor on A
Multistage Supply Chain Simulation

Fumiaki Saitoh¹

¹Aoyama Gakuin University

The effect of reward information on perceptual decision making

Devu Mahesan¹, Manisha Chawla¹, Krishna P Miyapuram¹

¹Indian Institute of Technology, Gandhinagar, India

Doubting What to Eat: A Computational Model for Food Choice Using
Different Valuing Perspectives

Altaf Hussain Abro¹, Jan Treur¹

¹VU University, Amsterdam, Netherlands

A Novel Graph Regularized Sparse Linear Discriminant Analysis Model
for EEG Emotion Recognition

Yang Li¹, Wenming Zheng¹, Zhen Cui¹, Xiaoyan Zhou²

¹Southeast University ²Nanjing University of Information Science &
Technology

Information maximization in a feedforward network replicates the stim-
ulus preference of the medial geniculate and the auditory cortex

Takuma Tanaka¹

¹Shiga University

A simple visual model accounts for drift illusion and reveals illusory
patterns

Daiki Nakamura¹, Shunji Satoh¹

¹The University of Electro-Communications

An Internal Model of the Human Hand Affects Recognition of Graspable
Tools

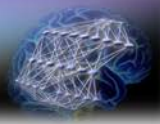
Masazumi Katayama¹, Yusuke Akimaru¹

¹Department of Human and Artificial Intelligent Systems, Graduate
School of Engineering, University of Fukui

Perceptual Representation of Material Quality — Adaptation to BRDF-
morphing Images —

Kouki Kudou¹, Ko Sakai¹

¹University of Tsukuba



Rhinal-hippocampal information flow reverses between memory encoding and retrieval

Juergen Fell¹, Tobias Wagner¹, Bernhard Staresina², Charan Ranganath³, Christian Elger¹, Nikolai Axmacher⁴

¹Dept. of Epileptology, Univ. of Bonn, Germany ²Dept. of Psychology, Univ. of Birmingham, UK ³Center for Neuroscience and Dept. of Psychology, Univ. of California, Davis, USA ⁴Dept. of Psychology, Ruhr-University Bochum, Germany

GPU-Accelerated Simulations of an Electric Stimulus and Neural Activities in Electrolocation

Kazuhisa Fujita¹, Yoshiki Kashimori²

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Analysis of Similarity and Differences in Brain Activities between Perception and Production of Facial Expressions Using EEG Data and the NeuCube Spiking Neural Network Architecture

Hideaki Kawano¹, Akinori Seo¹, Zohreh Gholami Doborjeh², Nikola Kasabov², Maryam Gholami Doborjeh²

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Self and Non-self Discrimination Mechanism Based on Predictive Learning with Estimation of Uncertainty

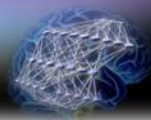
Ryoichi Nakajo¹, Maasa Takahashi¹, Shingo Murata¹, Hiroaki Arie¹, Tetsuya Ogata¹

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A Framework for Ontology Based Management of Neural Network as a Service

Erich Schikuta¹, Abdelkader Magdy¹, A. Baith Mohamed²

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Poster1-3 : Theory & AlgorithmsRoom International Conference Hall II

Modeling the propensity score with statistical learning

Kenshi Uchihashi¹, Atsunori Kanemura¹¹National Institute of Advanced Industrial Science and Technology (AIST)

Analysis of the DNN-*k*WTA Network Model with Drifts in the Offset Voltages of Threshold Logic UnitsChi Sing Leung¹, Ruibin Feng¹, John Sum²¹City University of Hong Kong ²National Chung Hsing University

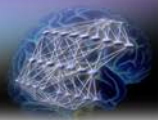
Efficient Numerical Simulation of Neuron Models with Spatial Structure on Graphics Processing UnitsTsukasa Tsuyuki¹, Yuki Yamamoto², Tadashi Yamazaki¹¹The University of Electro-Communications ²Tokyo Medical and Dental University

A Scalable Patch-Based Approach for RGB-D Face RecognitionNesrine GRATI¹, Achraf Ben-Hamadou², Mohamed Hammami¹¹Miracl Laboratory Sfax-Tunisia ²Valeo

Gaussian Processes based fusion of multiple data sources for automatic identification of geological boundaries in miningKatherine Silversides¹, Arman Melkumyan¹¹The University of Sydney

Speaker Detection in Audio Stream via Probabilistic Prediction Using Generalized GEBIKoki Sakata¹, Shota Sakashita¹, Kazuya Matsuo¹, Shuichi Kurogi¹¹Kyushu Institute of Technology

Probabilistic Prediction for Text-Prompted Speaker Verification Capable of Accepting Spoken Words with the Same Meaning but Different PronunciationsShota Sakashita¹, Satoshi Takeguchi¹, Kazuya Matsuo¹, Shuichi Kurogi¹¹Kyushu Institute of Technology



Segment-Level Probabilistic Sequence Kernel based Support Vector Machines for Classification of Varying Length Patterns of Speech

Shikha Gupta¹, Veena Thenkanidiyoor², Dileep A.D¹

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Attention Estimation for Input Switch in Scalable Multi-Display Environments

Xingyuan Bu¹, Mingtao Pei¹, Yunde Jia¹

¹Beijing Institute of Technology

Deep Dictionary Learning vs Deep Belief Network vs Stacked Autoencoder: An Empirical Analysis

Vanika Singhal¹, Anupriya Gogna¹, Angshul Majumdar¹

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Bi-directional LSTM Recurrent Neural Network for Chinese Word Segmentation

Yushi Yao¹, Zheng Huang¹

¹Shanghai Jiaotong University

Alternating optimization method based on nonnegative matrix factorizations for deep neural networks

Tetsuya Sakurai¹, Akira Imakura¹, Yuto Inoue¹, Yasunori Futamura¹

¹University of Tsukuba

Fissionable Deep Neural Network

DongXu Tan¹, JunMin Wu², HuanXin Zheng³, Yan Yin³, YaXin Liu¹

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A Structural Learning Method of Restricted Boltzmann Machine by Neuron Generation and Annihilation Algorithm

Shin Kamada¹, Takumi Ichimura²

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Semi-supervised Learning for Convolutional Neural Networks using Mild Supervisory Signals

Takashi Shinozaki¹

¹NICT CiNet

On the Singularity in Deep Neural Networks

Tohru Nitta¹

¹National Institute of Advanced Industrial Science and Technology

A Deep Neural Network Architecture Using Dimensionality Reduction with Sparse Matrices

Wataru Matsumoto¹, Manabu Hagiwara², Petros Boufounos³, Kunihiro Fukushima^{1,4}, Toshisada Mariyama¹, Zhao Xiongxin¹

¹Mitsubishi Electric Corporation, Information Technology R&D Center, Kanagawa, Japan ²Chiba University, Chiba, Japan ³Mitsubishi Electric Research Laboratories, Cambridge, MA, USA ⁴Fuzzy Logic System Institute, Fukuoka, Japan.

Noisy Softplus: A Biology Inspired Activation Function

Qian Liu¹, Steve Furber¹

¹University of Manchester

Compressing Word Embeddings

Martin Andrews¹

¹Red Cat Labs
