#### **Presentation Schedule**

**Session ID: A1 Session Title: Adversarial Learning and Security Date/Time:** 4 Dec, 2020, 13:30-15:30 Venue: Room 1 4027 Hyperspectral Image Classification Approach Based On Wasserstein Generative **Adversarial Networks** Naigeng Chen, Chenming Li 2504 Color-Comics-Image Sketch-Style Transformation Based On Conditional Generative **Adversarial Network** Mingqiang Shi, Kintak U 2505 Sensitivity Based Robust Learning In Adversarial Environment Qing Lin, Wei Li, Patrick Chan 2503 Matryoshka Attack: Research On An Attack Method Of Recommender System Based On Adversarial Learning And Optimization Solution Huibin Wang, Junyan Zhong, Kintak U **Dual-Path Model For Person Re-Identification With Cloth Changing** 6015 Junhao Zheng, Xiaoman Hu, Tianyi Xiang, Patrick Chan **Construction Plant Security Detection And Risk Assessment System** 2015 Runbin Chen, Hao Yu, Rui Liu, Ruixin Tang, Fangyuan Xu 6016 **Segmentation Based Backdoor Attack Detection** Natasha Kees, Yaxuan Wang, Yiling Jiang, Fang Lue, Patrick Chan 2501 Image Colored-Pencil-Style Transformation Based On Generative Adversarial Network Haitao Chen, Kintak U

**Session Title: Computer Version Date/Time:** 4 Dec, 2020, 13:30-15:30 Venue: Room 2 4062 Multi-Tensor Fusion Network With Hybrid Attention For Multimodal Sentiment **Analysis** Haiwei Xue, Xueming Yan, Shengyi Jiang, Helang Lai 6009 **Bert-Pair-Networks For Sentiment Classification** Ziwen Wang, Haiming Wu, Han Liu, Qian-Hua Cai 2506 **Face Rotation Angle Identification With Ensemble Learning** Zi-Yang Zhou, Keke Chen, Patrick Chan Object Recognition Using Enhanced Particle Swarm Optimization Algorithms 6004 Michael Willis, Li Zhang, Han Liu, Hailun Xie, Kamlesh Mistrty 2017 Human Motion Capture Technology Based On Multi-Binocular Vision And Image Recognition Weile Zhang, Kaizhu Yang, Tang Yi, Junpeng Yang, Xin Liang, Yiliang Fan, Qintao Du 4010 Hybrid Separable Convolutional Inception Residual Networtk For Human Facial **Expression Recognition** Xinqi Fan, Qureshi Rizwan, Ali Shahid, Jianfeng Cao, Luoxiao Yang, Hong Yan 4029 Video-Based Vehicle Flow Detection Algorithm Cheng Xu, Genlin Ji, Bin Zhao

A Study On Two-Stage Approach For Traffic Sign Recognition: Few-To-Many Or

**Session ID:** 

4032

Many-To-Many?

Hsieh Meng-Huan, Zhao Qiangfu

**A2** 

Session ID: A3

**Session Title:** Biometrics

Date/Time: 4 Dec, 2020, 13:30-15:30

Venue: Room 3

## A Deep Learning Based Wearable Healthcare Iot Device For Ai-Enabled Hearing Assistance Automation

Fraser Young, Li Zhang, Richard Jiang, Han Liu, Conor Wall

### 2006 A Dna-Binding Proteins Prediction Model Using Different Property Distance Transformation

Xiangyu Li, Lina Yang, Yuan Yan Tang, Patrick Wang

- **4031 A Multiple Deep Learner Approach For X-Ray Image-Based Pneumonia Detection** Zong Ye Yang, Qiang Fu Zhao
- 4050 Detection Of Stress For Visually Impaired People Using Eeg Signals Based On Time-Frequency Domain Analysis

Samia Sultana, Md Anisur Rahman, Mohammad Zavid Parvez

# 4051 Detection Of Brain Tumor And Identification Of Tumor Region Using Deep Neural Network On Fmri Images

Afsara Mashiat, Reza Rifat Akhlaque, Fahmeda Hasan Fariha, Tanzim Reza, Md Anisur Rahman, Mohammad Zavid Parvez

### 4052 Parkinson'S Disease Detection Using Fmri Images Leveraging Transfer Learning On Convolutional Neural Network

Asaduzzaman Sajeeb, A.F.M. Nazmus Sakib, Sanjida Ali Shushmita, S. M. Ashraf Kabir, Md Tanzim Reza, Mohammad Zavid Parvez

## 4053 Semantic Segmentation Of Brain Tumor From 3D Structural Mri Using U-Net Autoencoder

Maisha Farzana, Md Jahid Hossain Any, Md Tanzim Reza, Mohammad Zavid Parvez

## 4063 Prediction Of Coronary Artery Disease Using Electrocardiography: A Machine Learning Approach

Gautam Phadke, Mohammed Reza Rajati, Leena Phadke

**Session ID: A4** Machine Learning and its Application 1 **Session Title: Date/Time:** 4 Dec, 2020, 13:30-15:30 Venue: Room 4 4065 Distribution System For Japanese Synthetic Population Data With Protection Level Tadahiko Murata, Susumu Date, Yusuke Goto, Toshihiro Hanawa, Takuya Harada, Manabu Ichikawa, Hao Lee, Masaharu Munetomo, Akiyoshi Sugiki 2013 A Machine Learning Model On Bids Submission For Power Demand Response (Dr) **Resources In Gas Market** Ting Jin, Zhengxin Fu, Jiejun Chen, Yinglong Lv, Qiang Sun, Fangyuan Xu Sentiment Analysis Of Online Product Reviews Based On Senbert-Cnn 6002 Fangyu Wu, Zhenjie Shi, Zhaowei Dong, Chaoyi Pang, Bailing Zhang 6007 In-House Deep Environmental Sentience For Smart Homecare Solutions Toward Ageing **Society** Feiyu Qiang, Ziping Jiang, Philip Easom, Ahmed Bouridane, Li Zhang, Richard Jiang 4005 The Realization Of Cross-Media Knowledge Graph Of Tang And Song Poetry Changti Wu, Chunfang Li, Wenjuan Jiang 4002 Imbalanced Toxicity Prediction Using Multi-Task Learning And Over-Sampling Jincheng Li 4023 Identification Of Inverted Pendulum System Using Frequency Domain Maximum **Likelihood Estimation** Siting Zou, Qing Sun, Dajun Du 4034 Development Of A Drawing Assistant System For Blind Users Using An Object-**Oriented Graphic Description Language** 

4035 Applying A Genetic Algorithm To Determine Premium Rate Of Occupational Accident Insurance

Jia-Ching Ying, Chi-Kai Chang, Yen-Ting Chang

Noboru Takagi, Takashi Suzuki, Tomoyuki Araki

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Session ID: B1

Session Title: Wavelet Analysis and Intelligent Control

Date/Time: 4 Dec, 2020, 15:45-17:45

Venue: Room 1

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## 2005 Comparison Of Rna Secondary Structure Using Discrete Wavelet Transform And Fractal Dimension

Yang Liu, Lina Yang, Yuan Yan Tang, Patrick Wang

#### 6005 Brain-Controlled Robot-Arm Prosthetic Via Embedded Deep Learning From Semg Sensors Made With 3D Printer

David Lonsdale, Li Zhang, Richard Jiang

# 2009 Application Of Synchroqueezing Wavelet Transform In Bolt Anchorage Detection Signal Analysis

Xiao-Yun Sun, Jia-Qi Dong, Wen-Lian Zhang, Hui Xing

## 2023 Digital Image Watermarking Method Using The Gyrator And Dyadic Wavelet Transforms

Arata Ide, Ryuji Ohura, Teruya Minamoto

# 4033 Uncertainty-Observer-Based Dynamic Sliding Mode Formation Control Of Multi-Agent Systems

Yang Fei, Xin Yuan, Peng Shi, Cheng-Chew Lim

# 4049 Dynamic Multi-Target Assignment With Decentralised Online Learning To Achieve Multiple Synchronised Goals

Duong Nguyen, Arvind Rajagopalan, Jijoong Kim, Cheng-Chew Lim, David Hubczenko

## 4067 A Modified Q-Learning Algorithm For Control Of Two-Qubit Systems Omar Shindi, Qi Yu, Daoyi Dong, Jiangjun Tang

### 4015 Linear Parameter Varying Control Of Wind Energy Conversion Systems In Partial Load

Jing Xu, Qing Sun

**Session ID: B2 Session Title:** Multimedia **Date/Time:** 4 Dec, 2020, 15:45-17:45 Venue: Room 2 2502 Low-Light Image Enhancement Algorithm Based On Lime With Pre-Processing And **Post-Processing** Bowen Zeng, Kintak U 2018 Optimized Algorithm Of Human 3D Motion Recognition Based On Hog And Lbp Xin Liang, Junpeng Yang, Tang Yi, Kaizhu Yang, Weile Zhang, Yiliang Fan, Peijie Li 6001 A Watershed-Based Intelligent Scissors Approach For Interactive Semi-Automated **Pulmonary Lobes Segmentation** Oiang Li, Yan Kang 6006 Comparative Study Of Speech Emotion Recognition Based On Cnn And Crnn Nan Jiang, Junwei Jia, Dongmei Shao 4046 Transfer Learning With Shapeshift Adapter: A Parameter-Efficient Module For Deep **Learning Model** Jingyuan Liu, Mohammad Rajati 4064 Improving Self-Attention Based News Recommendation With Document Classification Haowen Ke 4069 Comparative Study Of Speech Emotion Recognition Based On Cnn And Crnn Nan Jiang, Junwei Jia 4057 **Color-Dust: A Data Visualization Application Of Image Color Based On K-Means** Algorithm Yang Rui, Li Chunfang, Wen Yujun

A Novel Chinese Reading Comprehension Model Based On Attention Mechanism And

Chin-Shyurng Fahn, Yi-Lun Wang, Chu-Ping Lee, Meng-Luen Wu

4011

**Convolutional Neural Networks** 

**Machine Learning Date/Time:** 4 Dec, 2020, 15:45-17:45 Venue: Room 3 A Fast Reduction Algorithm With Attribute Pre-Sort Based On Neighborhood Rough 6010 Meng Hu, Eric C.C. Tsang, Yanting Guo, Weihua Xu, Degang Chen 2022 Overview And Comparison Of Common Load Identification Models For Non-Intrusive **Load Detection** Qintao Du, Peijie Li, Yijie Huang, Weixian Chen, Zelun Lin **Supervised Neighborhood Based Ensemble Attribute Reduction** 6011 Jingjing Song, Zehua Jiang, Huili Dou, Eric C. C. Tsang 6008 **Novel Class Detection Using Hybrid Ensemble** Diptangshu Pandit, Li Zhang, Kamlesh Mistry, Richard Jiang 2014 A Neural Network Prediction Model On Multiple Error Dimension Integration Hao Yu, Ruixin Tang, Rui Liu, Runbin Chen, Fangyuan Xu **Sparse Convolution Subspace Clustering** 2012 Chuan Luo, Linchang Zhao, Taiping Zhang **Operating System Classification: A Minimalist Approach** 4055 Kyle Millar, Adriel Cheng, Hong Gunn Chew, Cheng-Chew Lim 4071 A Three-Stage Method For Classification Of Binary Imbalanced Big Data Junhai Zhai 4072 Feature Selection For Big Data Based On Mapreduce And Voting Mechanism Sufang Zhang, Junhai Zhai

**Session ID:** 

**Session Title:** 

**B3** 

Session ID: B4

Session Title: Machine Learning and its Application 2

Date/Time: 4 Dec, 2020, 15:45-17:45

Venue: Room 4

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- Feature Selection On Imbalanced Data And Its Application On Toxicity Prediction
   Jincheng Li
   Utilizing Contextualized Word Embeddings For Text Matching
   Hao Yu, Xiaoyang Chen, Ying Zhou
   Research On Hotspot Mining Method Of Twitter News Report Based On Lda And
   Sentiment Analysis
   Lingfei Zhang, Chunfang Li
- 4038 Conservative Generalisation For Small Data Analytics An Extended Lattice Machine Approach

Shuangshuang Kong, Hui Wang, Kaijun Wang

Applications Of Feature Weighted Fuzzy C-Means Clustering And Genetic Algorithm Optimization For Load Identification In Nilm Systems

Particular Control Day Villiana Formula Villiana Weilla Zhana

Peijie Li, Qintao Du, Yiliang Fan, Jie Yi, Xin Liang, Weile Zhang

- 4003 Behavioral Decision Makings: Reconciling Behavioral Economics And Decision Systems Junyi Chai
- 4058 Digitalization Of Electronic Textbook Based On Opency Zhiming Deng, Minyong Shi, Chunfang Li
- 4068 Detection Of Modulated Motor Cortex Using Anodal And Cathodal Tdcs Based
  Neurofeedback
  Zarif Ahmed Chowdhury, Dewan Nahidul Alam, Md. Abu Fattah Hossain Bhuiyan Nahid,

Md Anisur Rahman, Mohammad Zavid Parvez

2011 Selection Of Variables And Indicators In Financial Distress Prediction Model-Sym Method Based On Sparse Principal Component Analysis Sen Zeng, Wanjun Yang