Technical Program (Friday, November 30)

Session 1.1 Artificial Intelligence in Medicine
Time & Location: 14:10-15:40, Nov. 30, L009
Chair: Bae-Ling Chen (Professor, Asia Univ.)

(1) Using Machine Learning Algorithms in Medication for Cardiac Arrest Early Warning System
Construction and Forecasting
Hsiao-Ko Chang, Cheng-Tse Wu, Ji-Han Liu, Jyh-Shing Roger Jang

(2) Adverse Drug Reaction Post Classfication with Imbalanced Classification Techniques
Chen-Kai Wang, Hong-Jie Dai, Feng-Duo Wang and Emily Chia-Yu Su

(3) Adaptive Generation of Structured Medical Report using NER regarding Deep Learning
Cheng-Tse Wu, Hsiao-Ko Chang, Ji-Han Liu, Jyh-Shing Roger Jang

(4) Tongue Fissure Visualization with Deep Learning
Wen-Hsien Chang, Hsueh-Ting Chu and Hen-Hong Chang

Session 1.2 Deep Learning Algorithms
Time & Location: 16:00-17:30, Nov. 30, L009
Chair: Chao-Neng Wang (Professor, Asia Univ.)

(1) Comparison of Loss Functions for Training of Deep Neural Networks in Shogi
Hanhua Zhu and Tomoyuki Kaneko

(2) A Vector Mosquitoes Classification System Based on Edge Computing and Deep Learning
Li-Pang Huang, Ming-Hong Hong, Cyuan Heng Luo, Sachit Mahajan and Ling-Jyh Chen

(3) Application of Deep Reinforcement Learning in Werewolf Game Agents
Tianhe Wang and Tomoyuki Kaneko

(4) Deep Recurrent Q-Network with Truncated History
Oh Hyunwoo, Tomoyuki Kaneko

(5) Multi-label Classification with Feature-aware Cost-sensitive Label Embedding
Hsien-Chun Chiu, Hsuan-Tien Lin

Technical Program (Saturday, December 1)

Session 2.1 Artificial Intelligence Initiatives
Time & Location: 10:20-12:00, Dec. 1, L009
Chair: Yihsin Ho (Professor, Takushoku Univ.)

(1) Successive human tracking and posture estimation with multiple omnidirectional cameras.
Shunsuke Akama, Akihiro Matsufuji, Eri Sato-Shimokawara, Shoji Yamamoto, Toru Yamaguchi

(2) Development of an Intelligent Dialogue Agent with Smart Devices for Older Adults: A Preliminary Study
Satoshi Yamada, Daisuke Kitakoshi, Akihiro Yamashita, Kentarou Suzuki, Masato Suzuki

(3) A Method of Action Recognition in Ego-Centric Videos by using Object-Hand Relations
Akihiro Matsufuji, Wei-Fen Hsieh, Hao-Ming Hung, Eri Sato-Shimokawara, Toru Yamaguchi, Lieu-Hen Chen

(4) A research on document summarization and presentation system based on feature word extraction from stored information
Kei Matsubayashi, Akihiro Yamashita, Hidetoshi Nonaka and Konno Yohko

(5) Machine Learning based Path Prediction System - Adapting One Model for All Intersections
Kai-Qi Huang, Min-Te Sun

Session 2.2 Human-Intelligent Systems Time
Time & Location: 14:10-15:40, Dec. 1, L009
Chair: Chair: Min-Te Sun (Professor, NCU)

(1) Passenger Flow Prediction Using Weather Data for Taipei Metro Systems
Lijuan Liu and Rung-Ching Chen

(2) On the Effect of Data Imbalance for Multi-Label Pedestrian Attribute Recognition
Tsaipei Wang, Kai-Chen Shu, Chia-Hao Chang and Yi-Fu Chen

(3) A Fast PM2.5 Forecast Approach Based on Time-Series Data Analysis, Regression and Regularization
Cyuan Heng Luo, Hsuan Yang, Li-Pang Huang, Sachit Mahajan, Ling-Jyh Chen

(4) A YOLO-based Traffic Counting System
Jia-Ping Lin, Min-Te Sun

(5) An Empirical Study of Ladder Network and Multitask Learning on Energy Disaggregation in Taiwan
Fang-Yi Chang, Chun Chen, Shou-De Lin

Session 2.3 Artificial Intelligence Applications

Time & Location: 16:00-17:30, Dec. 1, L009

Chair: Anthony Y. H. Liao (Professor, Asia Univ.)

(1) A Proposal for the Global & Collaborative PBL Learning Environment where all Global Members on Different Campuses are "on the same page" throughout the Process of the Project
Tosh Yamamoto, Anthony Y. H. Liao, Wen-Chi Vivian Wu, Meilun Shih, Ju-Ling Shih and Hui-Chun Chu

(2) Examination of Indicators for Estimating Players' Strength by using Computer Go
Yuuto Kosaka, Takeshi Ito

(3) Consideration of Life Rhythm for Hearing-Dog Robots Searching for User
Shotaro Furuta, Tsuyoshi Nakamura, Yuji Iwahori, Shinji Fukui, Masayoshi Kanoh, Koji Yamada

(4) Privacy-Preserving SRS Data Anonymization by Incorporating Missing Values
Wen-Yang Lin, Kuang-Yung Hsu and Jhih-Syun Shen

(5) Study on Green Logistics Initiatives Through Text Mining Approach
Fuyume Sai

Session 2.4 Artificial Intelligence for Games

Time & Location: 16:00-17:30, Dec. 1, L008

Chair: Kiminori Matsuzaki (Professor, Kochi Univ.)

(1) AlphaZero for a Non-deterministic Game
Chu-Hsuan Hsueh, I-Chen Wu, Jr-Chang Chen and Tsan-Sheng Hsu

(2) Weighted Majority Voting with a Heterogeneous System in the Game of Shogi
Shogo Takeuchi

(3) Learning of Evaluation Functions via Self-Play Enhanced by Checkmate Search
Taichi Nakayashiki and Tomoyuki Kaneko

(4) An Alternative Multitask Training for Evaluation Functions in the Game of Go
Yusaku Mandai and Tomoyuki Kaneko

(5) Interpreting Neural-Network Players for Game 2048
Kiminori Matsuzaki and Madoka Teramura

Session 2.5 TAEA: Theory and Applications of Evolutionary Algorithms
Time & Location: 16:00-17:30, Dec. 1, L011
Chair: Hsing-Chung Chen (Professor, Asia Univ.)

(1) A Multiple Objective PSO-based Approach for Data Sanitization
Jerry Chun-Wei Lin, Yuyu Zhang, Chun-Hao Chen, Ming-Tai Wu, Chien-Ming Chen and Tzung-Pei Hong

(2) A Whale Crow Search Algorithm for Data Clustering
Ze-Xue Wu, Ko-Wei Huang, Abba Suganda Girsang

(3) Ant Colony Optimization with Negative Feedback for Solving Constraint Satisfaction Problems
Takuya Masukane, Kazunori Mizuno and Hiroto Shinohara

(4) Development of a Cebuano Parse Tree for a Grammar Correction Tool using Deep Parsing
Jan Mikhail Gaid, Robert Michael Lim, Christian Maderazo

(5) Empirical Analysis of PUCT Algorithm with Evaluation Functions of Different Quality
Kiminori Matsuzaki

Technical Program (Saturday, December 2)

Session 3.1 Recommender Systems with Machine Learning and AI
Time & Location: 10:20-12:00, Dec. 2, L010
Chair: Jane Yung-jen Hsu (Professor, NTU)

(1) Rating Matrix Pre-padding for Video Recommendation
Yang Liu, Guijuan Zhang, Xiaoning Jin, Yaozong Jia

(2) Using AHP to Choose the Best Logistics Distribution Model
Mei Lai, Wu Tsay and Zhen Wang

(3) Replay spoofing detection system for automatic speaker verification using multi-task learning of noise classes
Hyejin Shim, Jeeweon Jung, Heesoo Heo, Sunghyun Yoon, Hajin Yu

(4) Personalized Content-Based Music Retrieval by User-Filtering and Query-Refinement
Ja-Hwung Su, Tzung-Pei Hong, Jyun-Yu Li, Jung-Jui Su

(5) Named Entity Filters for Robust Machine Reading Comprehension
Yu-Yan Peng, Jane Yung-jen Hsu