



Ubi-media 2019 Program
August 6-9, 2019

UI1	August 7th, 9:30 - 10:20 Session Chair: Prof. Timothy K. Shih
	Conference and Ubi-media Keynote Speaker: Prof. Nen-fu Huang

Session	August 7th, 2019 @Room 1
U1	10:30 - 12:00 Session Chair: Prof. Jiun-Long Huang, Taiwan
2	A Collaborative DDoS Defense Platform Based on Blockchain Technology Lo-Yao Yeh, Jiun-Long Huang, Ting-Yin Yen and Jen-Wei Hu
7	Security Storage Based on Fountain Code and XOR Encryption in Edge Computing Rui Xu, Zhenjiang Zhang, Bo Shen, Yanran Zeng and Chenyang Dai
73	A Novel Preprocessing Method for Solving Long Sequence Problem in Android Malware Detection Yi-Ming Chen, Cheng-Hao Hsu and Guo-Chung Chen
79	Cloud Technology: Opportunities for Cybercriminals and Security Challenges Leo Willyanto Santoso

Session	August 7th, 2019 @Room 1
U2	13:00 - 14:30 Session Chair: Prof. I-Cheng Chang, Taiwan
5	The Matters of Deep Reinforcement Learning Toward Practical AI Applications Tipajin Thaipisutikul, Yi-Cheng Chen, Lin Hui, Sheng-Chih Chen, Pattanasak Mongkolwat and Timothy K. Shih
9	Mixed word representation and minimal Bi-GRU model for sentiment analysis Yanping Fu, Yun Liu, Yajing Wang, Yong Cui and Zhiyuan Zhang
10	Aspect-based sentiment analysis with the multiple-element attention and part of speech Ning Liu, Bo Shen, Kun Mi, Mingdong Sun and Naiyue Chen
72	A Novel Evolution-Based Recommendation System Yi-Cheng Chen, Yen-Lung Chu, Lin Hui, Sheng-Chih Chen, Tipajin Thaipisutikul and Kai-Ze Weng



Session	August 7th, 2019 @Room 1
U3	14:40 - 16:10 Session Chair: Prof. Ahmad Wali Satria Bahari Johan, Indonesia
76	An Efficient Artificial Intelligence Framework for UAV Systems Enkhtogtokh Togootogtokh, Sunan Huang, Wai Lun Leong, Swee Huat Rodney Teo, Gian Luca Foresti, Christian Micheloni and Niki Maritnel
84	Constructing Movie Domain Knowledge Graph Based on LOD Qiuyu Lei and Yun Liu
4	Generating a 3D Hand Model from Position of Fingertip using Image Processing Technique Natthapach Anuwattananon, Shwu-Huey Yen and Somchoke Ruengittinun
66	Stairs Descent Identification for Smart Wheelchair by Using GLCM and Learning Vector Quantization Ahmad Wali Satria Bahari Johan, Fitri Utaminingrum and Timothy K. Shih

Session	August 7th, 2019 @Room 1
U4	16:10 - 17:30 Session Chair: Prof. Ankhtuya Ochirbat, Mongolia
8	An Intelligent Interactive Visualizer to Improve Blended Learning in Higher Education Rangana Jayashanka, K.P. Hewagamage and E. Hettiarachchi
14	Automatic book generation by using ICT Job-Skills and Computing Curricula Ankhtuya Ochirbat, Chalothon Chootong, Worapot Sommool, Gunarathne W.K.T.M. and Timothy K. Shih
77	Improving the Vocabulary Learning by Personalized Proficiency Yi-Zhen Lin, Jen-Wei Huang and Kai-Hsiang Chen
3	Study on correctness judgement of handwritten Chinese characters based on feature matrix for similarity matching Juying Wu, Qing Han and Yi Li



Session	August 7th, 2019 @Room3
U5	10:30 - 12:00 Session Chair: Prof. K. Priyantha Hewagamage, Sri Lanka
13	Critical Success Factors of Analysing User Emotions to Improve the Usability of Systems Wasura D. Wattarachchi, K. Priyantha Hewagamage and Enosha Hettiarachchi
17	Application of hand recognition system based on electromyography and gyroscope using deep learning Tsai-Ni Yang, Chuan-Feng Chiu, Timothy K. Shih, Chi-Yen Lin, Lin Hui and Fitri Utaminigrum
18	The Design of Real-Time Digital Clothing Projection System Hong-Nien Chen, Chuan-Feng Chiu, Timothy K. Shih, Chi-Yen Lin, Fitri Utaminigrum and Lin Hui
20	DEEP REAL-TIME HAND DETECTION ON EMBEDDED SYSTEMS Ping-Yang Chen, Jun-Wei Hsieh, Christopher Chan and Munkhjargal Gochoo

Session	August 7th, 2019 @Room3
U6	13:00 - 14:30 Session Chair: Prof. Yung-Hui Li, Taiwan
23	Four Categories Vehicle Detection in Hsuehshan Tunnel via Single Shot Multibox Detector Chun-Ming Tsai, Tawei David Shou, Jun-Wei Hsieh and Kuang-Hsuan Chen
56	TEMPORAL ACTION DETECTION BASED ON HIERARCHICAL OBJECT DETECTION NETWORKS Yi-Hui Wu, Wen-Jiin Tsai and Hua-Tsung Chen
62	Clinically Applicable Deep Learning for Diagnosis of Diabetic Retinopathy Yung-Hui Li, Nai-Ning Yeh, Kartika Purwandari and Latifa Nabila Harfiya
67	A Deep Learning Approach for Dynamic Object Understanding using SIFT. Yuan-Tsung Chang and Timothy K. Shih



Session	August 7th, 2019 @Room3
U7	14:40 - 16:10 Session Chair: Prof. Nam Ling, USA
19	Non-MPM Mode Coding for Intra Prediction in Video Coding Taru Kanchan, Minqiang Jiang and Nam Ling
55	An Adaptive Stereoscopic Video Streaming Mechanism using MV-HEVC and 3D-HEVC Technologies Tz-Heng Hsu, Po-Hui Wu, Gwo-Jiun Horng, Chao-Chun Chen and Mao-Yuan Pai
59	Traffic Flow Forecast for Traffic with Forecastable Sporadic Events Hung-Chin Jang and Yu-Hsiang Chang
64	Resolving IGMP Difference among Routers and Devices for Improving Interconnectivity in Home Networks Moe Hamamoto, Takashi Murakami, Hiroshi Sugimura and Masao Isshiki

Session	August 7th, 2019 @Room3
U8	16:10 - 17:30 Session Chair: Prof. Shih-Ching Yeh, Taiwan
69	Motorcyclists' Head Motions Recognition by Using the Smart Helmet with Low Sampling Rate Yu-Ren Chen, Chang-Ming Tsai, Ka-lo Wong, Tzu-Chang Lee, Chee-Hoe Loh, Jia-Ching Ying and Yi-Chung Chen
82	Facial Expression Recognition: A Comparison of Bottleneck Feature Extraction Prasitthichai Naronglerdrit
54	OPINION MINING ON E-COMMERCE DATA USING SENTIMENT ANALYSIS AND K-MEDOID CLUSTERING Untung Rahardja, Taqwa Hariguna and Wiga Maulana Baihaqi



UI2	August 8th, 9:30 - 10:20 Session Chair: Prof. Timothy K. Shih
	Conference and Ubi-media Keynote Speaker: Prof. Lap-Pui Chau

Session	August 8th, 2019 @Room 1
U9	10:30 - 12:00 Session Chair: Prof. Pattanasak Mongkolwat, Thailand
52	Assistive Robot with Action Planner and Schedule for Family Supanut Konngern, Naphssorn Kaibutr, Nawaporn Konru, Thitinan Tantidham, Chih-Lin Hu, Tipajin Thaipisutikul, Timothy K. Shih and Pattanasak Mongkolwat
65	Improving Performance of DeepCC Tracker by Background Comparison and Trajectory Refinement Kuan-Hsien Wu, Wan-Lun Tsai, Tse-Yu Pan and Min-Chun Hu
80	Apply A* Search for Robot Path Finding Anuwat Angkuldee, Kuei-Ping Shih and Somchoke Ruengittinun

Session	August 8th, 2019 @Room 1
U10	13:00 - 14:30 Session Chair: Prof. Susanto Rahardja, China
6	Development of a 3D Virtual Reality Mobile Navigation System for Geopark Ching-Sheng Wang, Meng-Lung Lin and Pin-Yu Chen
22	A Kinect-based System for Stroke Rehabilitation Shih-Ching Yeh, Si-Huei Lee, Rai-Chi Chan and Shuya Chen
71	Markerless Indoor/Outdoor Augmented Reality Navigation Device Based on ORB-Visual-Odometry Positioning estimation and Wall-Floor-Boundary Image Registration Chian C. Ho, Ming-Che Ho and Chuan-Yu Chang
81	A Hybrid Approach for Mobile Phone Clustering With Speech Recordings Mou Wang, Xiao-Lei Zhang and Susanto Rahardja



Session	August 8th, 2019 @Room 1
U11	14:40 - 16:10 Session Chair: Prof. Chih-Lin Hu, Taiwan
16	A whole slide Ki-67 proliferation analysis system for breast carcinoma Chien-Chuan Ko, Chih-Hung Chuang, Chuan-Yu Chang, Chun-Hung Lin, Shih-Hao Chang and Ji-Han Jiang
53	A medical PBL system for clinical diagnosis training in medical education Lih-Shyang Chen, Shu-Han Chang, Chih- Ching Emily Yang and Chao-Cheng Chen
63	An Electronic Medical Record Management System based on Smart Contracts Yeong-Sheng Chen, Wei-Kai Yang and Jie-Si Chen
85	Scalable Master-Slaver Isomorphic Module for IoT Service System Wen-Yo Lee, Ti-Hung Chen, Ching-Long Shih and Yung-Hui Chen