Ubi Media

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Conference Agenda

08.06-08.09

@ Bali, Indonesia

The 12th IEEE International Conference
on Ubi-Media Computing & Workshops

Umedia 2019 Conference Agenda			
Aug 6th	Day1		
	Executive Meeting		
	Preliminary Discussions		
Aug 7th	Conf.Day2 : Room1	Conf.Day2 : Room3	Conf.Day2 : Room2
08:00	Registration		
8:30 - 9:00	Welcome Session		
9:00 - 9:30	Opening Conference		
09:30 - 10:20	UI1 :Umedia Keynote Speaker : Prof. Nen-fu Huang		
10:20 - 10:30	Break	Break	Break
10:30 - 12:00	U1 : Ubi-media paper	U5 : Ubi-media paper	A1 : AEL paper
12:00- 13:00	Lunch	Lunch	Lunch
13:00 - 14:30	U2 : Ubi-media paper	U6 : Ubi-media paper	A2 : AEL paper
14:30 - 14:40	Break	Break	Break
14:40 - 16:10	U3 : Ubi-media paper	U7 : Ubi-media paper	A3 : AEL paper
16:10 - 17:30	U4 : Ubi-media paper	U8 : Ubi-media paper	A4 : AEL paper
18:30 - 20:30	Welcome Reception		
Aug 8th	Conf.Day3 : Room1	Conf.Day3 : Room3	Conf.Day3 : Room2
9:30 - 10:20	UI2 :Umedia Keynote Speaker : Prof. Lap-Pui Chau		
10:20 - 10:30	Break	Break	Break
10:30 - 12:00	U9 : Ubi-media paper	MI1 : MIOT paper	A5 : AEL paper
12:00- 13:00	Lunch	Lunch	Lunch
13:00 - 14:30	U10 : Ubi-media paper	ML1 : MLMA paper	
14:30 - 14:40	Break	Break	Break
14:40 - 16:10	U11 : Ubi-media paper	ML2 : MLMA paper	
16:10 - 17:30	Best Paper Award & Closing		
18:30 - 20:30	Banquet & Networking		
Aug 9th	Day4		
	Local Committee Meeting		
	Academic Discussions and Local Tour		

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. Wattearachchi, K. Priyantha Hewagamage and Enosha Hettiarachchi
17	**Application of hand recognition system based on electromyography and gyroscope using deep learing** Tsai-Ni Yang, Chuan-Feng Chiu, Timothy K. Shih, Chi-Yen Lin, Lin Hui and Fitri Utaminingrum
18	**The Design of Real-Time Digital Clothing Projection System** Hong-Nien Chen, Chuan-Feng Chiu, Timothy K. Shih, Chi-Yen Lin, Fitri Utaminingrum 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-Io 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

MIoT & MLMA 2019 Program
August 6-9, 2019

Session	August 8th, 2019 @Room3
MI1	10:30 - 12:00 Session Chair: Prof. Jiun-Yu Tu, Taiwan
5	**Pushing the Digital Notice Board toward Ubiquitous based on the Concept of the Internet of Everything** Peng-Wen Chen, Yung-Hui Chen and Yi-Hsien Wu
6	**Cognitive Learning Performance Assessment and Analysis with CPBL Applied on Arduino Module Programming for Non-CS Students** Yung-Hui Chen, Peng-Wen Chen, Wei-Chun Lee, Chun-Hsiung Tseng, Jiun-Yu Tu and Chia-Chung Yeh
7	**VA algorithm for Elderly's Falling Detection with 2D-Pose-estimation** Potsawat Wosri, Pitchayakul Jenpoomjai, Chih-Lin Hu and Somchoke Ruengittinun
3	**A Tool-Set for Physical Signal Collection** Chun-Hsiung Tseng, Yung-Hui Chen and Jia-Rou Lin

MLMA 2019 Program
August 6-9, 2019

Session	August 8th, 2019 @Room 3
ML1	13:00 - 14:30 Session Chair: Prof. Yi-Cheng Chen, Taiwan
1	**DeepBonds: A Deep Learning Approach to Predicting United States Treasury Yield** Jia-Ching Ying, Yu-Bing Wang, Chih-Kai Chang, Ching-Wen Chang, Yu-Han Chen and Yow-Shin Liou
2	**Application of Hammerstein-Wiener Recurrent Neural Network to Accelerate Time-Series Skyline Queries** Chee-Hoe Loh, Sheng-Min Chiu and Yi-Chung Chen
4	**Automatic Signboard Detection and Semi-Automatic Ground Truth Generation** Chen-Ya Hong, Chih-Yang Lin and Timothy K. Shih
5	**Sports Video Segmentation Using Multi-model Content Analysis** Huang-Chia Shih and Kok-Hong Ho

Session	August 8th, 2019 @Room 3
ML2	14:40 - 16:10 Session Chair: Prof. Chih-Yang Lin, Taiwan
6	**Unsupervised Multi-class Cosegmentation** I-Cheng Chang and Tzu-Chiang Wang
8	**Forming the Best Team for a Composite Competition** Ya-Wen Teng and Chih-Hua Tai

AEL2019 Program

August 6-9, 2019

Session	August 7th, 2019 @Room 2
AEL1	10:30 - 12:00 Session Chair: Prof. Rustam Shadiev, China
1	**Effect of Ubiquitous Physics App on Learning Achievements in Authentic Contexts** Siska Wati Dewi Purba and Wu-Yuin Hwang
2	**Target-Monitoring Learning Companion Design** Yung-Tzu Joyce Lin, Shein-Yung Cheng and Meng-Yen Tom Lin
6	**Comparing effects of speech-to-text recognition versus speech-enabled language translation on cognitive load** Rustam Shadiev, Narzikul Shadiev, Mirzaali Fayziev and Barry Lee Reynolds

Session	August 7th, 2019 @Room 2
AEL2	13:00 - 14:30 Session Chair: Prof. Ting-Ting Wu, Taiwan
7	**A Framework for Mobile Meaningful Plant Learning to Improve Natural Science Learners' Performance** Nadia Parsazadeh, Han-Chieh Chao, Yueh-Min Huang, Peiyu Cheng and Ting-Ting Wu
20	**To investigate an instant translation for assisting students' understandings of lecture slides** Chaknarin Kongcharoen
11	**Wireless Sensor Network for Monitoring of Water Quality for pond Tilapia** Tanomsak Wongmeekaew, Sarawoot Boonkirdram and Songgrod Phimphisan

Session	August 7th, 2019 @Room 2
AEL3	14:40 - 16:10 Session Chair: Prof. Jun-Ming Su, Taiwan
12	**An active learning strategy driven by course crowdsourcing and crowdvoting** Haibao Chen, Deru Song and Yuyan Zhao
14	**Research on Behavior Patterns of School Administrators in the MOOC of ICT Leadership** Xiaowei Zhao and Shusheng Shen
15	**A Scheme to Create Simulated Test Items for Facilitating the Assessment in Web Security Subject** Jun-Ming Su

Session	August 7th, 2019 @Room 2
AEL4	16:10 - 17:30 Session Chair: Prof. Siriporn Sansri, Thailand
16	Structural Relationships among In-Service Teacher's Behavioral Intention, Perceived Usefulness, Perceived Ease of Use and Online Professional Development System Quality Davaanyam Tumenbayar, Amarzaya Amartuvshin and Tserendorj Navchaa
17	What Motivates Learners' Intention to Use Blackboard Mobile Learning (BML)?: Evidence from Thailand Nattaporn Thongsri and Yukun Bao
18	ICT Curriculum Requirements in the Service Area of Champasak University, Laos Suparp Kanyacome, Pitak Paksanondha, Souksan Vilavong and Piyanuch Jaikaew
19	Design and Implementaion of Smart Small Aquaponics System Siriporn Sansri, Wu-Yuin Hwang and Teerasak Srikumpa

Session	August 8th, 2019 @Room 2
AEL5	10:30 - 12:00 Session Chair: Prof. Gheorghita Ghinea, UK
8	PassSmell: Using Olfactory Media for Authentication Anas Ali Alkasasbeh, Gheorghita Ghinea and Wu-Yuin Hwang
21	Effects of Troubleshooting Tasks with Prompt Information on Students' Transfer Performance in Robotics Education Qiuju Si and Baichang Zhong
22	The Investigation of Primary School Students' Cooperative and Competitive Personality in Robotics Course Liying Xia and Baichang Zhong