2019 The 2nd International Conference on Computational Intelligence and Intelligent Systems

(CIIS 2019)

2019 The 2nd International conference on Robotics and Computer Vision

(ICRCV 2019)

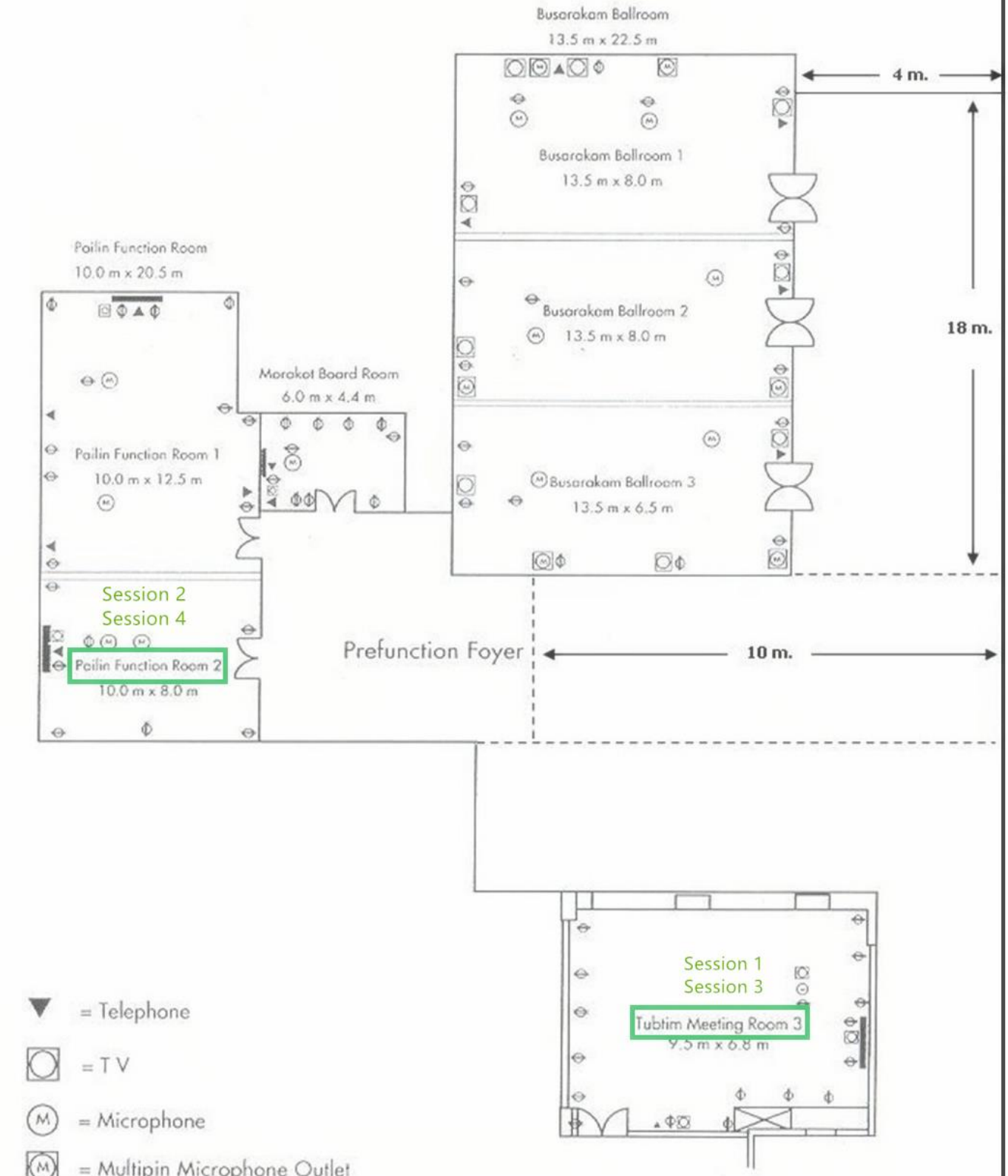
Bangkok, Thailand

November 23-25, 2019

Venue: AVANI ATRIUM BANGKOK
Address: 1880 New Petchburi Road, Bangkok 10310 Thailand

CONFERENCE ROOM

Meeting Rooms on the 2nd Floor



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Welcome Letter

It is our great pleasure to welcome you to attend 2019 The 2nd International Conference on Computational Intelligence and Intelligent Systems (CIIS 2019) jointly with 2019 The 2nd International conference on Robotics and Computer Vision (ICRCV 2019)) during November 23-25, 2019 in Bangkok, Thailand.

The major goal and feature of these conferences are to bring academic scientists, engineers, industry researchers together to exchange and share their experiences and research results, and discuss the practical challenges encountered and the solutions adopted. Prestigious experts and professors have been invited to deliver the latest information in their respective expertise areas. The conference has two Keynote Speakers, one Plenary Speaker, and 4 Technical Sessions. It will be a golden opportunity for the students, researchers and engineers to interact with the experts and specialists to get their advice or consultation on technical matters, sales and marketing strategies.

We'd like to express our sincere gratitude to everyone who has contributed to CIIS and ICRCV as their success could only been achieved through a team effort. Additionally, our special thanks go to all the conference speakers for their insightful and contemporary thought leadership on many emerging research topics. We would also like to especially thank the conference chairs, the program chairs and the session chairs, for putting the conference together; as well as to all the technical committee members and reviewers for their excellent work in reviewing the papers and their other academic support efforts. Finally, we are particularly grateful to all the authors and presenters of the papers as well as all the attendees for their contributions to this wonderful conference.

Conference Organizing Committees

Conference Committees

Advisory Chair
Prof. Tok Wang LING, National University of Singapore, Singapore

Conference Chair
Prof. Sergei Gorlatch, University of Muenster, Germany

Local Chair
Prof. Ratchatin Chanchareon, Chulalongkorn University, Thailand

Program Chairs
Prof. Ray C.C. Cheung, City University of Hong Kong, Hong Kong
Prof. Prasad KDV Yarlagadda, Queensland University of Technology, Australia

Technical Committee Members
Ahed Abugabah, Zayed University, United Arab Emirates
Ajay Kumar, Manipal University Jaipur, India
Andrew Chiou, CQUniversity Australia, Australia
Anitha S, ACS College of Engineering, India
Anton Satria Prabuwon, Universiti Kebangsaan Malaysia
Atsushi Maeda, Osaka Prefecture University College of Technology, Japan
Bo Yang, Bowie State University, USA
Chawalit Benjangkaprasert, King Mongkuts Institute of Technology Ladkrabang, Thailand
Chui Young Yoon, On Kwang Technology Research Center, Republic of Korea
Dariusz Jacek Jakóbczak, Koszalin University of Technology, Poland
Elizabeth Marie Ehlers, University of Johannesburg, South Africa
Hanan Alghamdi, King Abdulaziz University, Saudi Arabia
Jefferson Lerios, Laguna State Polytechnic University, Philippines
Jiaoyun Yang, Hefei University of Technology, China
John Paul Tomas, Mapua University, Philippines
K Koteswara Rao, Nan Yang Academy of Sciences, Singapore
Kai Shuang, Beijing University of Posts and Telecommunications, China
Kanda Runapongsa Saikaew, Khon Kaen University, Thailand
Kenji Terabayashi, University of Toyama, Japan
Khanista Namee, King Mongkut's University of Technology North Bangkok, Thailand
Kiran Bailey, BMS College of Engineering Bangalore, India
Kok-Why Ng, Multimedia University, Malaysia
Kwan Hyeong Lee, University of Daejin, Republic of Korea
Marco Antonio T. Subio, Technological Institute of the Philippines Manila, Philippines
Matsumoto Mitsuharu, University of electro-communications, Japan
Mohammad Dabbagh, Sunway University, Malaysia

Mohd Najib Mohd Salleh, Universiti Tun Hussein Onn Malaysia, Malayisa
Mohsen Kakavand, Sunway University, Malaysia
Nirmala Devi L, Osmania University, India
Olga Georgieva, Sofia University, Bulgaria
P. Aruna, Coimbatore Institute of Technology, India
Pakawan Pugsee, Chulalongkorn University, Thailand
Pravin Ghate, JSPM's Rajarshi Shahu College of Engineering, India
Rodrigo Jr. Pangantihon, University of Mindanao, Philippines
Roshan Ragel, University of Peradeniya, Sri Lanka
S. H. Patil,Bharati vidyapeeth, University College of Engineering, India
Sadiq Hussain, Dibrugarh University, India
Seelam Ch Vijaya Bhaskar, MVSR Engineering College, India
Semih Özden, Gazi University, Turkey
Shailaja Patil, JSPM's Rajarshi Shahu College of Engineering, India
Siphesihle Philezwini Sithungu, University of Johannesburg, South Africa
Srividya P, Osmania University, India
Su-Cheng Haw, Multimedia University, Malaysia
Sudhir Babu Alaparthi, PVP Siddhartha Institute of Technology, India
Sunny Joseph Kalayathankal, K. E. College, India
Suresh Shirbahadurkar, Zeal College of Engineering & Research, India
Tamer Dag, Kadir Has University, Turkey

Useful Information

Conference Venue

AVANI ATRIUM BANGKOK

Add: 1880 New Petchburi Road, Bangkok 10310 Thailand

E-mail: atrium@avanihotels.com Tel: +66 2 718 2000-1

Location

Perfectly positioned for city adventures, there are plenty of ways to come and go from the hotel.

* 40-minute taxi to Suvarnabhumi and Don Mueang Airport
* 5-minute walk to Prasanmit Boat Pier
* 7-minute walk to Phetchaburi subway station
* 10-minute walk to Makkasan Airport Rail link station

AIRPORT TRANSFERS

Suvarnabhumi and Don Mueang Airport limousine transfer arranged by AVANI:

Toyota Camry – THB 1,200
Toyota Van – THB 1,700
Please arrange transfers at least 24 hours in advance by calling +66 (0) 2718 2000 Ext. 13 (concierge desk) or by email to atrium@avanihotels.com.

PUBLIC TRANSPORTATION OPTIONS

* Public Taxi, Innova – THB 700
* Public Taxi – By metre + tollway and airport surcharge
* Airport Rail Link – THB 35, runs every 10 minutes
* Hotel Shuttle Van to Phetchaburi subway station, every hour. Meeting point at Petchaburi subway station Exit 1, a distance of 600 metres from the hotel.

Time

UTC/GMT+7

Weather

The Weather Situation of Bangkok in April

Average daily minimum temperature	Average daily highest temperature
26℃	32℃

Emergency

Hospital Emergency phone: 2460199
Fire Service: 199
Emergency Call: 123/191

Security Reminder

Please pay attention to the personal security. Do not trust strangers easily and be wary of being cheated by strangers.
The conference venue is open to public, you carry valuables requested their proper custody, due to their own inadvertent loss of custody of your own risk. We cannot be responsible for loss or damage during the conference days
Please don't throw your name card away when you don't need it, just return it to the registration table.

Instructions for Presentation

Please come 10 minutes earlier before your session starts.

※ A best presentation will be selected from each session and award during dinner.

Devices Provided by the Conference Organizer

Laptops (with MS-Office & Adobe Reader)
Projector & Screen
Laser Sticks
Portal Frame

Materials Provided by the Presenters

Oral Presentation: PowerPoint or PDF files. Please copy your slide file to the desktop before session starts.

Poster Presentation: 841mm high and 594mm wide (A1 size), Poster must be in the “Portrait” orientation (not “Landscape”). During your poster session, the author should stay by your poster paper to explain and discuss your paper.

Duration of Each Presentation

Regular Oral Session: about 15 minutes of presentation including Q&A.
Poster Session: about 10 minutes of presentation for each poster.

About Dress Code

All participants are required to dress formally. Casual wear is unacceptable. National formal dress is acceptable.

Conference Agenda

Nov. 23, 2019 - Schedule

10:00-17:00 Participants Check-in & Materials Collection—Lobby

Nov. 24, 2019 - Schedule

Keynote & Invited Speeches		
09:00-09:05	**Conference Opening Remarks** **Prof. Sergei Gorlatch,** **University of Muenster, Germany**	Tubtim
09:05-09:55	**Keynote Speaker I** **Prof. LING Tok Wang,** **National University of Singapore, Singapore** Speech Title: Conceptual Modeling Views of Relational Databases vs Big Data	
9:55-10:45	**Keynote Speaker II** **Prof. Sergei Gorlatch,** **University of Muenster, Germany** Speech Title: Distributed Applications Based on Mobile Cloud Computing and Software-Defined Networks	
10:45-11:10	Group Photo and Coffee Break	
10:10-11:50	**Plenary Speaker I** **Prof. Ratchatin Chanchareon,** **Chulalongkorn University, Thailand** Speech Title: Robotics in the era of 5G and MEC	Tubtim
11:50-13:00	Lunch	
Parallel Oral Sessions		
13:00-15:15	**Session 1** Machine Learning and Application Development	Tubtim
	Session 2 Algorithm Design and Intelligent Computing	Pailin 2
15:15-15:30	Group Photo and Coffee Break	
15:00-15:30	**Poster Presentation**	
Parallel Oral Sessions		
15:30-17:45	**Session 3** Computer Information Engineering and Image Processing	Tubtim
	Session 4 Artificial Intelligence and Intelligent Control Technology	Pailin 2
18:00-20:00	Award Banquet	

Nov. 25, 29, 2019- Schedule

Tour in Bangkok

Session Index

Session 1: S1011, S1037, S1041, S1044, S1046, S1050, S1057, S1052, S1059

Session 2: S1015, S1019, S1020, S1021, S1022, S1055, S1053, S1060-A

Session 3: S1012, S1024, S1026, S1038, S1045, S2004

Session 4: S1002, S1003, S1010, S1018, S1049, S1032, S2003, S2006

Introduction of Speakers

Keynote Speaker I

Prof. LING Tok Wang (IEEE Senior Life Member)

National University of Singapore, Singapore

Title: Conceptual Modeling Views of Relational Databases vs Big Data

Abstract: We first recall and highlight some limitations and performance issues of RDBMS for database applications. We revisit some important fundamental concepts in relational data model which have big impact on the performance, such as FD and MVD, normal forms, redundancy and updating anomalies, join of relations, ACID for handling concurrent transactions, and parallel and distributed databases, etc.

We then briefly review the basic data models of the 4 major categories of NoSQL databases for big data applications. Next, we compare the relational data model and big data model using a set of application requirements and characteristics to help users to decide when to use SQL or NoSQL for big data applications.

We describe some existing database techniques which can be used to improve the performances for certain categories of database applications in RDBMS, such as materialized view, replicas, horizontal and vertical partitioning of data in physical database schema design, etc. We present some seldom mentioned but very important concepts in data/schema integration, such as entity resolution vs relationship resolution, primary key vs object identifier (OID), local OID vs global OID, local FD/MVD vs global FD/MVD, and system generated OID vs manually designed OID. These concepts are related to Object-Relationship-Attribute Semantics (ORA-semantics) and they have significant impact on the quality and correctness of the integrated databases.

Biodata: Dr. LING Tok Wang is a professor of the Department of Computer Science, School of Computing at the National University of Singapore. He was the Head of IT Division, Deputy Head of the Department of Information Systems and Computer Science, and Vice Dean of the School of Computing of the University. Before joining the University as a lecturer in 1979, he was a scientific staff at Bell Northern Research, Ottawa, Canada. He received his Ph.D. and M.Math., both in Computer Science, from University of Waterloo (Canada) and B.Sc.(1st class Hons) in Mathematics from Nanyang University (Singapore). His research interests include Data Modeling, Entity-Relationship Approach, Object-Oriented Data Model, Normalization Theory, Logic and Database, Integrity Constraint Checking, Semi-Structured Data Model, XML Twig Pattern Query Processing, ORA-semantics based XML and Relational Database Keyword Query Processing. He has published more than 230 international journal/conference papers and chapters in books, all in database research areas. He also co-edited 13 conference and workshop proceedings, co-authored one book, and edited one book.

He is an ER Fellow, an ACM Distinguished Scientist, IEEE Senior Life Member, and Senior Member of Singapore Computer Society. He received the ACM Recognition of Service Award in 2007, the DASFAA Outstanding Contributions Award in 2010, and the Peter P. Chen Award in 2011.

Keynote Speaker II

Prof. Sergei Gorlatch

University of Muenster, Germany

Title: Distributed Applications Based on Mobile Cloud Computing and Software-Defined Networks

Abstract: We consider an emerging class of challenging networked multimedia applications called Real-Time Online Interactive Applications (ROIA). ROIA are networked applications connecting a potentially very high number of users who interact with the application and with each other in real time, i.e., a response to a user's action happens virtually immediately. Typical representatives of ROIA are multiplayer online computer games, advanced simulation-based e-learning and serious gaming. All these applications are characterized by high performance and QoS requirements, such as: short response times to user inputs (about 0.1-1.5 s); frequent state updates (up to 100 Hz); large and frequently changing numbers of users in a single application instance (up to tens of thousands simultaneous users). This talk will address two challenging aspects of future Internet-based ROIA applications: a) using Mobile Cloud Computing for allowing high application performance when a ROIA application is accessed from multiple mobile devices, and b) managing dynamic QoS requirements of ROIA applications by employing the emerging technology of Software-Defined Networking (SDN).

Biodata: Dr. Sergei Gorlatch has been Full Professor of Computer Science at the University of Muenster (Germany) since 2003. Earlier he was Associate Professor at the Technical University of Berlin, Assistant Professor at the University of Passau, and Humboldt Research Fellow at the Technical University of Munich, all in Germany. Prof. Gorlatch has about 200 peer-reviewed publications in renowned international books, journals and conferences. He was principal investigator in several international research and development projects in the field of parallel, distributed, Grid and Cloud algorithms, networking and computing, as well as e-Learning, funded by the European Commission and by German national bodies. Among his recent achievements in the area of communications and future Internet is the novel Real-Time Framework (www.real-time-framework.com) developed in his group as a platform for high-level development of real-time, highly interactive applications for entertainment. In the area of networking, his group has been recently working in the pan-European project OFERTIE on an application-oriented Quality of Service approach for emerging Software-Defined Networks (SDN).

Plenary Speaker I

Prof. Ratchatin Chanchareon

Chulalongkorn University, Thailand

Title: Robotics in the era of 5G and MEC

Abstract: 5G is among the upcoming hot technology that loaded with new telecommunication technologies. The main features of 5G includes enhanced mobile broadband (eMBB), massive machine-type communications (mMTCs), and ultra-reliable low-latency communications (URLLCs). The talk will brief these features and how they favor the robotics in the era of 5G. Roughly, the robotics, infrastructure, and human operator are highly connected by high performance and effective wireless communication. With the support from the National Broadcasting and Telecommunications Commission, Thailand (NBTC), Chulalongkorn University set up a 5G test center to prepare for the 5G services and has developed some use cases, granted by NBTC. The pilot use cases includes autonomous driving vehicle, service robot in the building, telemedicine, air quality monitoring which fuel to shape the university into a smart micro city.
The PhoneBot, the robot that are designed as a 5G compatible robot, will be demonstrated. With 5G, the robot can process the SLAM (Simultaneous localization and mapping), and path generation algorithms at the edge computing (MEC), and thus an on-board processing unit can be significantly reduced. Since we are only at the early stage of 5G deployment, only eMBB can be tested and thus the current state of this on-going project will be summarized in the talk.

Biodata: Dr. Ratchatin Chancharoen is currently an Associate Professor at the Mechanical Engineering Department, Chulalongkorn University, Thailand. He received his BS degree in mechanical engineering from Chulalongkorn University in 1991, MS degree in mechanical engineering from Oregon State University in 1994, and PhD degree in mechanical engineering from Chulalongkorn University in 2000. Dr. Ratchatin Chancharoen has twenty years' experience in robotics research including both manipulators and mobile robots and ten years in teaching both Robotics and Mechatronics at the university level. During these years, he has designed and built more than twenty robots in various configurations and published more than 20 research papers and one text book entitled "Linear Control Systems" (in Thai). He is principal investigator and co-investigator of several research grants in robotics and also the manager of a number of industrial projects in design and control. His current research activities involve 3D printing based on syringe pump, auger pump, and gear pump for gel like materials. He also developed a novel drive mechanism for collaborative robot such that force, compliance, and position can be controlled in one axis. His main research interests are in the field of Robotics, Mechatronics, and Cyber Physical System including new hardware processor, electronics, control algorithm, and intelligence.

Parallel Presentation Sessions

Nov. 24-Parallel Oral Session 1

S1: Machine Learning and Application Development
Session Chair: Prof. Ornurai Sangsawang, King Mongkut's University of Technology North Bangkok, Thailand
Time: 13:00-15:15 **[Location: Tubtim]**

Please control each presentation time within **15 minutes**, including Q & A.
Session photo will be taken at the end of each session and updated online.
The **certificate of presentations** and **best presentation** will be awarded at Award Banquet.
The scheduled time for presentations might be changed due to unexpected situations, please arrive at meeting room at least **10 minutes** before your session starts.

S1011 13:00-13:15	Prediction of Employee Attrition Using Machine Learning and Ensemble Methods **Hanan Alghamdi** King Abdulaziz University, Saudi Arabia
S1037 13:15-13:30	Representation Learning by Convolutional Neural Network for Smartphone Sensor Based Activity Recognition **Tatsuhito Hasegawa** and Makoto Koshino University of Fukui, Japan
S1041 13:30-13:45	Ubal: A Universal Bidirectional Activation-Based Learning Rule for Neural Networks **Kristína Malinovská,** Ľudovít Malinovský, Pavel Krsek, Svatopluk Kraus and Igor Farkaš Czech Technical University in Prague, Czech Republic
S1044 13:45-14:00	Deep Learning Based-Recommendation System: An Overview on Models, Datasets, Evaluation Metrics, and Future Trends Kyle Ong, Su-Cheng Haw and **Kok-Why Ng** Multimedia University, Malaysia
S1046 14:00-14:15	Investigating Methods of Determining Number of Hidden Units in Deep Learning for Taxi Recommender System **Insub Lee,** Undarmaa Chinzorig, Ha Yoon Song and Jun Park Hongik University, Republic of Korea
S1050 14:15-14:30	Cyberbullying Detection Using Deep Learning and Word Embeddings: An Empirical Study **Mohammed Yahea Al-Hashedi**, Lay-Ki Soon and Hui-Ngo Goh Monash University Malaysia, Malaysia
S1057 14:30-14:45	A Form and API Data Management Platform for Progressive Web Application and Serverless Application Architecture **Khanista Namee,** Rittiphon Phoarun, Ghadeer Mohsen Albadrani, Jantima Polpinij, Sarayoot Tanessakulwattana and Pongpol Sphanphong King Mongkut's University of Technology North Bangkok, Thailand
S1052 14:45-15:00	A Classification Model for Thai Statement Sentiments by Deep Learning Techniques **Pakawan Pugsee** and Nitikorn Ongsirimongkol Chulalongkorn University, Thailand
S1059 15:00-15:15	Variable Neighborhood Search for Optimal Railway Station Location **Ornurai Sangsawang** and Sunarin Chanta King Mongkut's University of Technology North Bangkok, Thailand

S2: Algorithm Design and Intelligent Computing
Session Chair: Prof. Jasmine Siu Lee Lam, Nanyang Technological University, Singapore
Time: 13:00-15:00 **[Location: Pailin 2]**

Please control each presentation time within **15 minutes**, including Q & A.
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The scheduled time for presentations might be changed due to unexpected situations, please arrive at meeting room at least **10 minutes** before your session starts.

S1015 13:00-13:15	A Method of Pedestrian Trajectory Prediction Based on LSTM **Xuefeng Jiang**, Wei Lin and Junrui Liu Northwestern Polytechnical University, China
S1019 13:15-13:30	Using Genetic Programming and Decision Trees for Team Evolution **Siphesihle Philezwini Sithungu,** Duncan Anthony Coulter and **Elizabeth Ehlers** University of Johannesburg, South Africa
S1020 13:30-13:45	Performance Evaluation of XML Query Processing in Centralized and Distributed Environment Samini Subramaniam, **Su-Cheng Haw** and Lay-Ki Soon Multimedia University, Malaysia
S1021 13:45-14:00	Improved Weighted Learning Support Vector MAchine (SVM) for High Accuracy **Syahizul Amri Dzulkifli,** Mohd Najib Mohd Salleh and Kashif Hussain Talpu Universiti Tun Hussein Onn Malaysia, Malaysia
S1022 14:00-14:15	Adversarial Multi-task Label Embedding for Text Classification **Kai Shuang,** Meng Xu, Wentao Zhang and Zhixuan Zhang Beijing University of Posts and Telecommunications, China
S1055 14:15-14:30	Data Mining in Health Care Sector: Literature Notes **Ahed Abugabah** and Ahmad Alsmadi Zayed University, United Arab Emirates
S1053 14:30-14:45	A System for Cultivating Exploration Skills by Presenting Clues Based on the Analysis of Page Selection Behaviors **Yota Kawawa,** Ryo Onuma, Hiroki Nakayama, Hiroaki Kaminaga, Youzou Miyadera and Shoichi Nakamura Fukushima University, Japan
S1060-A 14:45-15:00	Big Data Analytics by Computational Intelligence Methods **Jasmine Siu Lee Lam** Nanyang Technological University, Singapore

S3: Computer Information Engineering and Image Processing
Session Chair: Prof. Seelam Ch Vijaya Bhaskar, MVSR Engineering College, India
Time: 15:30-17:00 **[Location: Tubtim]**

Please control each presentation time within **15 minutes**, including Q & A.
Session photo will be taken at the end of each session and updated online.
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S1012 15:30-15:45	A Constructive Multilevel Security System with Cryptographic Techniques by using Cyber-Physical System in the Space/Defense Applications **Seelam Ch Vijaya Bhaskar** and J Vijay Gopaland Anitha S MVSR Engineering College, India
S1024 15:45-16:00	Convolutional Neural Network Using Stacked Frames for Video Classification **Itthisak Phueaksri** and Sukree Sinthupinyo Chulalongkorn University, Thailand
S1026 16:00-16:15	Effectiveness of Haar-like Features and ViBe Algorithm for Detecting Jaywalkers James Kirk Lopez Guanzon, Shaina Nicole Vivas Jocsing, Chielo Jane Abobo Matias and **John Paul Tomas** Mapua University, Philippines
S1038 16:15-16:30	Stroked Finger Recognition Using a Wearable Device While Typing **Daisuke Hamazaki** and Tatsuhito Hasegawa University of Fukui, Japan
S1045 16:30-16:45	3D Shape Blending: Parts Swapping Kyle Ong, **Kok-Why Ng** and Yih-Jian Yoong Multimedia University, Malaysia
S2004 16:45-17:00	Convolutional Network for Generic Object Contour Detection with Stereo Vision **Masayuki Miyama** Kanazawa University, Japan

S4: Artificial Intelligence and Intelligent Control Technology
Session Chair: Prof. Chui Young Yoon, On Kwang Technology Research Center, On Kwang Co. Ltd., Republic of Korea
Time: 15:30-17:30 **[Location: Pailin 2]**

Please control each presentation time within **15 minutes**, including Q & A.
Session photo will be taken at the end of each session and updated online.
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The scheduled time for presentations might be changed due to unexpected situations, please arrive at meeting room at least **10 minutes** before your session starts.

S1002 15:30-15:45	Attentional Autoencoder for Weighted Implicit Collaborative Filtering **Hoang-Vu Dang** and Dung Ngo FPT University, Vietnam
S1003 15:45-16:00	An IoT Based Vehicular Pollution Monitoring System for Automobile **P. Srividya** and Nirmala Devi L Osmania University, India
S1010 16:00-16:15	Analysis Instrument of Smart Technology Capability for an Industry: A Total Smart Technology Capability Perspective **Chui Young Yoon** On Kwang Technology Research Center, On Kwang Co. Ltd., Republic of Korea
S1018 16:15-16:30	WQMS: A Water Quality Monitoring System using IoT/ Performance Evaluation of XML Query Processing in Centralized and Distributed Environment Samini Subramaniam, Lit-Jie Chew, Muhamad Tasnim bin Ziauddin and **Su-Cheng Haw** Multimedia University, Malaysia
S1049 16:30-16:45	Performance Evaluation of Sensorless Vector Controlled Induction Motor with Fuzzy-based Rotor-Flux MRAS **Karchung** and Somporn Ruangsinchaiwanich Naresuan University, Thailand
S1032 16:45-17:00	Service development of Smart Home Automation System: A Formal Method Approach Jonayet Miah and **Razib Hayat Khan** American International University-Bangladesh, Bangladesh
S2003 17:00-17:15	An IOT Architecture for Smart Rice Monitoring **Pattama Charoenporn** King Mongkut's Institute of Technology Ladkrabang, Thailand
S2006 17:15-17:30	Human-like Object Grasping and Relocation for an Anthropomorphic Robotic Hand with Natural Hand Pose Priors in Deep Reinforcement Learning **Edwin Valarezo Añazco,** Patricio Rivera Lopez, Hyemin Park, Nahyeon Park, Jiheon Oh, Sangmin Lee, Kyungmin Byun, Tae-Seong Kim Kyung Hee University, Republic of Korea

Nov. 24-Poster Session

Time: 15:00-15:30		[Location: Tubtim]
01	S1006	A Comparative Study on GA-based Scheduling on Cloud Computing **Lamisha Rawshan**, Tasnim Rahman, Afsana Begum, Syeda Sambul Hossain and Touhid Bhuiyan Daffodil International University, Bangladesh
02	S1025	The Applications of Artificial Intelligence and Abilities of Supporting in Learning Japanese Language **Huynh Tan Hoi** FPT University, Vietnam
03	S1040	Hybrid high-order in Graph Attention Layer HaiHong E, **Di Zeng** and MeiNa Song Beijing University of Posts and Telecommunications, China
04	S1042-A	A Study of Intelligent Restaurant Environment Atmosphere Indicators **Yen-Cheng Chen,** Pei-ling Tsui, Hsiang-Chun Lin and Jia-Jen Chen Chinese Cultural University, Taiwan
05	S1039	Chinese Address Standardization Based on seq2seq Model **Yan Lu,** Hongli Liu and Yanquan Zhou Beijing University of Posts and Telecommunications, China
06	S1043-A	A Study on Improving the Learning Effectiveness of Restaurant Management Courses by Using Intelligent Computing System **Pei-ling Tsui,** Yen-Cheng and Ching-Sung Lee National Taitung College, Taiwan
07	S1033	Transformer based Chinese Sentiment Classification **Shuhao Xu**, Yanquan Zhou and Zhengshuai Zhu Beijing University of Posts and Telecommunications, China
08	S1054	Visualization of Change of Human Relationships on the Web based on Analysis of Term Appearance in Pages Hikaru Fujisawa, Ryo Onuma, Hiroki Nakayama, Hiroaki Kaminaga, Youzou Miyadera and **Shoichi Nakamura** Fukushima University, Japan
09	S2007	Serialized Keypoint Estimation using Body Part Segmentation **Ho Gyeong Lee,** Yong Chae Cho, Jeong Hoon Han Hanyang University, Republic of Korea
10	S2014	Application of Digital Image Processing to Water Level Measurement **Sung-Wan Kim**, Dong-Uk Park, Da-Woon Yun Pusan National University, Republic of Korea

One Day Visit

Date： November 25, 2019

Place： Bangkok, Thailand

Time： 8:00-17:00

Gathering Place: AVANI ATRIUM BANGKOK (1880 New Petchburi Road, Bangkok 10310 Thailand)

Route:

08:00	Pick up time
09:30	Grand Palace
11:00	Damnoen Saduak Floating Market
12:00	Lunch
12:30	Siam Niramit
13:30	Sea Life Bangkok Ocean World
15:00	Ayutthaya Tour River Cruise
17:00	Back to the hotel

Attention:

This visit will charge **100USD** for each**.**

Or you could choose to enjoy free time on November 25 to explore Bangkok city by yourself;

Please be there on time, or you will miss the visit.

The fees including: Traveling route, English guide and traveling bus service

The itinerary / duration to visit may change without advance notice depending on group size or unexpected local situation.

The participants should go to the assembly point by themselves, no pick-up service.

Should you have any more doubt, please contact us

Service excludes:

Personal expenses (not mentioned above).

Attractions in Bangkok

Grand Palace

Bangkok has hundreds of temples, but this particular tour is a must-do because it introduces you to Wat Pho, home of the Reclining Buddha, and Wat Phra Kaew, otherwise known as The Temple of the Emerald Buddha, a spiritual icon carved from jade that towers above all others in its holiness. What's more? It also takes you to Thailand's foremost historical and cultural landmark, The Grand Palace.

Damnoen Saduak Floating Market

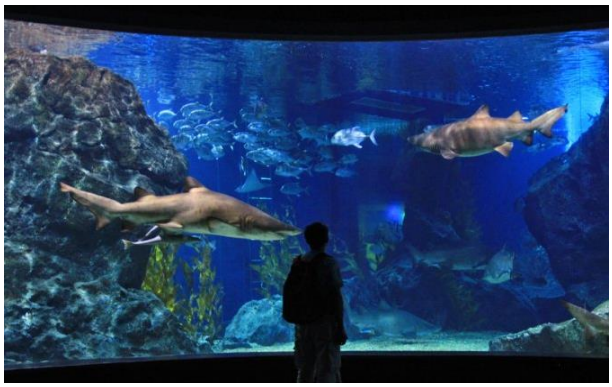
The pioneer of all floating markets, Damnoen Saduak continues to offer a delightful experience despite its increasingly touristy atmosphere. Imagine small thin canals teeming with longboats piled high with fresh produce, each one jockeying for position, and paddled by a lady ready to stop and bargain at a moment's notice. This visual vibrancy, as well as its popularity, ensures Damnoen Saduak's iconic status.

Siam Niramit

Packing all the splendour of the Land of Smiles into an 80-minute stage show is no easy task. But Siam Niramit succeeds – and spectacularly. How so? Try the world's biggest stage, a cast of hundreds, and bags of Thai finesse. The first act describes how Siam became a crossroads where civilisations met, the second how karma binds the Thai people, the last how religious ceremony earns Thais merit in this life. Available with or without Thai buffet dinner.

Sea Life Bangkok Ocean World

This tour of the world's oceans promises to be a great day out for families. One of the largest underground aquariums in Southeast Asia, SEA LIFE Bangkok Ocean World will dazzle you with innovative world-class exhibits and over 30,000 curious looking creatures from various depths and aquatic regions across the globe.



Ayutthaya Tour River Cruise

A day trip to the ancient capital of Ayutthaya is the perfect counterbalance to the up-to-the-minute hustle of Bangkok, and this day tour allows you to see many of the majestic ruins from the comfort of a river cruise. This full-day tour starts with a 1 hour 30 minute coach journey to this peaceful town, before you spend the day exploring temples and finding out all about this proud period of Thailand's past.

Note

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