

Events

July 30

17:00-19:00	Registration
18:00-20:00	Welcome Reception (Howard Prince Hotel Taichung) 台中福華大飯店

July 31

08:40-16:30	Registration
09:00-09:20	Opening Ceremony
09:20-10:20	Plenary Speaking
10:20-10:50	Photo and Coffee Break
10:50-12:10	Sessions
12:10-14:00	Lunch
14:00-15:20	Sessions
15:20-15:40	Coffee Break
15:40-17:00	Sessions

August 1

09:00-16:00	Registration
09:00-10:20	Sessions
10:20-10:40	Coffee Break
10:40-12:00	Sessions
12:00-14:00	Lunch
14:00-15:20	Sessions
15:20-15:40	Coffee Break



15:40-17:00 Sessions
18:00-21:00 Banquet and Best Paper Award Ceremony
(Windsor Hotel) 裕元花園飯店

August 2

08:30-17:00 Excursion (Sun Moon Lake)
Meetings of Committees

Conference Venue

Providence Hall, Providence University (主顧樓 靜宜大學)
200, Sec. 7, Taiwan Boulevard, Shalu Dist.,
Taichung City 43301 Taiwan
Tel: +886-4-2632-8001 ext. 18011~18013

Welcome Reception

Howard Prince Hotel Taichung (台中福華大飯店)
219, An-he Road, Taichung City Taiwan
TEL : +886-4-2463-2323

Banquet

Windsor Hotel (裕元花園飯店)
610 Sec. 4 Taiwan Boulevard, Taichung City 40764 Taiwan
TEL : +886-4-24656555

Program Overview

July 30			
18:00-20:00	Welcome Reception (Howard Prince Hotel Taichung) 台中福華大飯店		
July 31			
09:00-09:20	Opening Ceremony (Room: 115)		
09:20-10:20	Plenary Speaking (Room: 115) A Queueing Approach to Service Economics Zhe George Zhang (Western Washington University, USA)		
10:20-10:50	Photo and Coffee Break		
10:50-12:10	Session 1 (Room: 422)	Session 2 (Room: 424)	
	Session 1 The Best Paper Award Competition (I) Session 2 The Best Student Paper Award Competition (I)		
12:10-14:00	Lunch		
14:00-15:20	Session 3 (Room: 422)	Session 4 (Room: 424)	Session 5 (Room: 426)
	Session 3 The Best Paper Award Competition (II) Session 4 The Best Student Paper Award Competition (II) Session 5 The Best Paper Award Competition (III)		
15:20-15:40	Coffee Break		
15:40-17:00	Session 6 (Room: 422)	Session 7 (Room: 424)	Session 8 (Room: 426)
	Session 6 The Best Paper Award Competition (IV) Session 7 Performance Modeling and Analysis of Telecommunication Network Session 8 Reliability and Cloud Computing		

August 1		
09:00-10:20	Session 9 (Room: 422)	Session 10 (Room: 424)
	Session 9 Retrial and Vacation Queues (I) Session 10 Controllable Queueing Models	
10:20-10:40	Coffee Break	
10:40-12:00	Session 11 (Room: 422)	Session 12 (Room: 424)
	Session 11 E-Business and E-Commerce Management Session 12 Retrial and Vacation Queues (II)	
12:00-14:00	Lunch	
14:00-15:20	Session 13 (Room: 422)	Session 14 (Room: 424)
	Session 13 Matrix Analytic Methods Session 14 Design and System Management of Queues	
15:20-15:40	Coffee Break	
15:40-17:00	Session 15 (Room: 422)	Session 16 (Room: 424)
	Session 15 Optimization of Queueing Systems Session 16 Queue and Performance Evaluation	
18:00-21:00	Banquet and Best Paper Award Ceremony (Windsor Hotel) 裕元花園飯店	

July 31 Morning Sessions

09:20~10:20

Plenary Speaking

(Room: 115)

A Queueing Approach to Service Economics

Zhe George Zhang (Western Washington University, USA)

10:20~10:50 Photo and Coffee Break

10:50~12:10

Session 1 The Best Paper Award Competition (I)

(Room: 422) (Session Chair: Rein Nobel)

- a. Modeling and Performance Evaluation of Type I High Reliable Star Network with Heavy Load
Lijun Sun (Qingdao University of Science and Technology)
Yuxing Gu (Qingdao University of Science and Technology)
Xingmei Yang (Qingdao e-Government and Information Resource)
- b. Improving Operational Efficiency for a Two-Way Highway Toll Station
Li-Hong He (Lanzhou University)
Sen-Biao Li (Lanzhou University)
Qian Gao (Lanzhou University)
Zhe George Zhang (Western Washington University)
- c. A Computing Approach to Two Competing Services with a Finite Buffer Effect
Hsing Paul Luh (National Chengchi University)
Zhe George Zhang (Western Washington University)
Chia-Hung Wang (National Cheng Kung University)

10:50~12:10

Session 2 The Best Student Paper Award Competition (I)

(Room: 424) (Session Chair: Hsing Luh)

- a. Effect of Deadline Time on Job Completion Time for Backup-Task Scheduling in Cloud Computing
Kyosuke Hashimoto (Kyoto University)
Hiroyuki Masuyama (Kyoto University)
Shoji Kasahara (Nara Institute of Science and Technology)
Yutaka Takahashi (Kyoto University)
- b. Weak Reversibility of a Two Dimensional Reflecting Random Walk
Hiroshi Shimizu (Tokyo University of Science)
Masahiro Kobayashi (Tokyo University of Science)
Masakiyo Miyazawa (Tokyo University of Science)
- c. Single Server Markovian Retrial Queues with Multiple Types of Outgoing Calls
Hiroyuki Sakurai (Tokyo Institute of Technology)
Tuan Phung-Duc (Tokyo Institute of Technology)
- d. Equilibrium Strategies in Discrete-Time Queues under Multiple and Single Vacation Policies
Yan Ma (Central South University)
Zaiming Liu (Central South University)
Zhe George Zhang (Western Washington University)

July 31 Afternoon Sessions

14:00~15:20

Session 3 The Best Paper Award Competition (II)

(Room: 422) (Session Chair: Wuyi Yue)

- a. The Mathematical Modeling for Contention-Collision Cancellation Control
Mode Type V Double-Star Network
Zhao-Yi Lu (Qingdao University)
Li-Hong Wang (Yantai University)
Li-Jun Sun (Qingdao University of Science & Technology)
Huifang Feng (Northwest Normal University)
- b. Traffic-Centric Analysis of a Machine-to-Machine Communication System
Zsolt Saffer (Technical University of Budapest)
Olga Galinina (Tampere University of Technology)
Sergey Andreev (Tampere University of Technology)
Yevgeni Koucheryavy (Tampere University of Technology)
- c. Stability of a Cyclic Polling System with an Adaptive Mechanism
Jeongsim Kim (Chungbuk National University)
Bara Kim (Korea University)

Session 4 The Best Student Paper Award Competition (II)

(Room: 424) (Session Chair: Yutaka Takahashi)

- a. Reliability Analysis of the M/M/R/N Machine Repair Problem for a k-out-of-N:
F System with Asynchronous Multiple-Working Vacations
Shih-Chia Chen (National Chung-Hsing University)
Jyh-Bin Ke (National Chung-Hsing University)
- b. Discrete-Time Queues with Train Arrivals and Markovian Server Interruptions
Bart Feyaerts (Ghent University)
Sabine Wittevrongel (Ghent University)
Stijn De Vuyst (Ghent University)
Herwig Bruneel (Ghent University)
- c. Cost Analysis of an M/G/1 Queue with Partial Breakdowns under the N Policy
Jia-Yu Chen (National Chung-Hsing University)
Kuo-Hsiung Wang (Providence University)
Shin-Pyng Sheu (National Chung-Hsing University)

14:00~15:20

Session 5 The Best Paper Award Competition (III)

(Room: 426) (Session Chair: Bong Dae Choi)

- a. On Reliability Evaluation of Distributed Telecommunication Networks
Shin-Guang Chen (Tungnan University)
- b. Analysis of M/G/1 Multiple Vacation Model with Balking
Zsolt Saffer (Budapest University of Technology and Economics)
Wuyi Yue (Konan University)
- c. Optimization of a Multi-Server Retrial Inventory-Queueing System with Two Demand Classes and Bernoulli Impatience
Fong-Fan Wang (Hsiuping University of Science and Technology)

15:20~15:40 Coffee Break

15:40~17:00

Session 6 The Best Paper Award Competition (IV)

(Room: 422) (Session Chair: Gokul Chandra Sharma)

- a. A Model to Analyze Airbase Oil Inventory System with Endogenous Lead
Bong Kyoo Yoon (Korea National Defense University)
Kyung Hwan Choi (Korea National Defense University)
- b. Analysis of an (s, S) Inventory Model with Level Dependent G/M/1 Type Structure
Sung-Seok Ko (Konkuk University)
Jangha Kang (Chosun University)
E-Yeon Kwon (Chosun University)

15:40~17:00

Session 7 Performance Modeling and Analysis of Telecommunication Network

(Room: 424) (Session Chair: Bara Kim)

- a. Performance Analysis of DCF MAC with Multi-Channel for IEEE 802.11p/1609.4 WAVE Networks
Cheol Wook Park (Korea University)
Bong Dae Choi (Sungkyunkwan University)
- b. MAC Protocol for WLAN with Multi-Rate Transmission and Multi-Packet Reception Capability
Yun Han Bae (Sangmyung University)
Attahiru S Alfa (University of Manitoba)
Bong Dae Choi (Sungkyunkwan University)
- c. Performance Modeling and Optimization of Cognitive Radio Networks with Imperfect Channel Sensing
Jae Deok Kim (Korea Advanced Institute of Science and Technology)
Ganguk Hwang (Korea Advanced Institute of Science and Technology)

Session 8 Reliability and Cloud Computing

(Room: 426) (Session Chair: Kuo-Hwa Chang)

- a. Reliability and Availability Analysis of Three Systems with Imperfect Coverage and Standby Switching Failures
Tseng-Chang Yen (National Chung-Hsing University)
Kuo-Hsiung Wang (Providence University)
Wu-Lin Chen (Providence University)
- b. Analysis of an Energy-Saving Mechanism in Cloud Computing Data Center with Queue-Dependent Heterogeneous Servers
Fu-Min Chang (Chaoyang University of Technology)
Jau-Chuan Ke (National Taichung University of Science and Technology)

August 1 Morning Sessions

09:00~10:20

Session 9 Retrial and Vacation Queues (I)

(Room: 422) (Session Chair: Sabine Wittevrongel)

- a. Individual and Socially Optimal Balking Strategies in a Retrial Queue with Vacations
Feng Zhang (Beijing Jiaotong University)
Jinting Wang (Beijing Jiaotong University)
- b. Randomized Threshold for an Unreliable Geo/G/1 Queue
Tsung-Yin Wang (National Taichung University of Science and Technology)
- c. A Queueing Model in Discrete Time with Retrials and a Tolerant Server
Rein Nobel (Vrije University)

Session 10 Controllable Queueing Models

(Room: 424) (Session Chair: Ganguk Hwang)

- a. Random N-Policy for an Unreliable-Server Queue with Delaying Repair and Setup Time under Bernoulli Vacation Schedule
Hsin-I Huang (National Taichung University of Science and Technology)
Tsung-Yin Wang (National Taichung University of Science and Technology)
Jau-Chuan Ke (National Taichung University of Science and Technology)
- b. An Unreliable Queue with Controllable Repair Policy
Chia-Huang Wu (Feng Chia University)
Wen-Chiung Lee (Feng Chia University)
Jau-Chuan Ke (National Taichung University of Science and Technology)
- c. A Taylor Series Approach to the Numerical Analysis of the M/G/1 Queue with Unreliable Server and Vacations
Sofiane Ouazine (University of Bejaia)
Karim Abbas (University of Bejaia)

10:20~10:40 Coffee Break

10:40~12:00

Session 11 E-Business and E-Commerce Management

(Room: 422) (Session Chair: Shao-Chun Chiu)

- a. An Investigation of Consumer Purchasing Behavior on Online Consumer Reviews
Shu-Hui Chuang (Asia University)
Meng-Lin Shih (Ching Kuo Institute of Management and Health)
Cyun-Lien Cheng (Tunghai University)
- b. The Impact of Market Signals on Developing Consumer Trust
Ying-Hueih Chen (Providence University)
Jyh-Jeng Wu (National United University)
Yu-Chen Cheng (Providence University)
- c. Usage and Training of CAIS-CEPS in Mongolian E-Customs Development: A Comparative Fuzzy-Set Analysis
Shao-Chun Chiu (Asia University)
Lkhagvadulam Jamiyandagva (Asia University)

Session 12 Retrial and Vacation Queues (II)

(Room: 424) (Session Chair: Madhu Jain)

- a. Customer Equilibrium Strategies and Social-Profit Maximization in the Single-Server Constant Retrial Queue with Individual Removal
Fang Wang (Beijing Jiaotong University)
Jinting Wang (Beijing Jiaotong University)
Feng Zhang (Beijing Jiaotong University)
- b. Transient Analysis of Retrial Queues with Double Orbits and Priority Customers
Madhu Jain (Indian Institute of Technology)
Amita Bhagat (Indian Institute of Technology)
- c. Modified Vacation Policy for Unreliable Server $M^x/G/1$ Retrial Queue with Impatient Customers and Bernoulli Feedback
Madhu Jain (Indian Institute of Technology)

August 1 Afternoon Sessions

14:00~15:20

Session 13 Matrix Analytic Methods

(Room: 422) (Session Chair: Jinting Wang)

- a. On a Discrete-Time $GI^X/Geo/1/N-G$ Queue with Randomized Working Vacations and at Most J Vacations
Shan Gao (Beijing Jiaotong University)
Jinting Wang (Beijing Jiaotong University)
- b. Approximation of Tandem Queues with Parallel Unreliable Servers and Blocking
Yang Woo Shin (Changwon National University)
Dug Hee Moon (Changwon National University)
- c. Interclass Correlation in Priority Scheduling: An Overlooked Phenomenon
Herwig Bruneel (Ghent University)
Tom Maertens (Ghent University)
Joris Walraevens (Ghent University)

Session 14 Design and System Management of Queues

(Room: 424) (Session Chair: Hiroyuki Masuyama)

- a. Factors of Customer Queue
Chih-Chin Liang (National Formosa University)
- b. Survivability Analysis of an Inventory-Queueing Network
Kuo-Hwa Chang (Chung Yuan Christian University)
Wei-Shin Ting (Chung Yuan Christian University)
- c. Queueing Analysis of $G^X/G^Y/R$ Machining System with Threshold Policy by Using Diffusion Approximation
Gokul Chandra Sharma (I.B.S.)
Madhu Jain (Indian Institute of Technology)

15:20~15:40 Coffee Break

15:40~17:00

Session 15 Optimization of Queueing Systems

(Room: 422) (Session Chair: Chia-Li Wang)

- a. Self versus Social Optimizations in Managing Observable Queues
Chia-Li Wang (National Dong Hwa University)
- b. Optimal Policies for a Two-Phase Service M/G/1 System
Ching-Chang Kuo (National Taichung University of Science and Technology)
Jau-Chuan Ke (National Taichung University of Science and Technology)

Session 16 Queue and Performance Evaluation

(Room: 424) (Session Chair: Dequan Yue)

- a. Fluid Model Driven by a Multi-Server Working Vacation Queue with Vacation Interruption
Xiuli Xu (Yanshan University)
Lingling Wang (Yanshan University)
- b. Analysis of an M/M/C Queueing System with Impatient Customers and Synchronous Vacation
Dequan Yue (Yanshan University)
Wuyi Yue (Konan University)
Wenjie Xu (Yanshan University)
- c. A Novel Active DRX Mechanism in LTE Project and its Performance Evaluation
Shunfu Jin (Yanshan University)
Wuyi Yue (Konan University)
Chao Meng (Yanshan University)
- d. Performance Modeling and Analysis of an Adjustable Channel Bonding Strategy in Centralized Cognitive Radio Networks
Yuan Zhao (Yanshan University)
Shunfu Jin (Yanshan University)
Wuyi Yue (Konan University)