**July 25 (Wednesday), Morning**

09:00-10:00  
**Registration**

10:00-12:00  
**Tutorial Lecture**  
**Chair: Tuan Phung-Duc** (University of Tsukuba, Japan)  
**Title: Externalities, Optimization and Regulation in Queues**  
**Prof. Moshe Haviv** (The Hebrew University of Jerusalem, Israel)

12:00-13:00  
**Lunch**

**July 25 (Wednesday), Afternoon Sessions**

13:00-13:20  
**Opening Ceremony**  
**Prof. Hideaki Takagi** (General Co-Chair, University of Tsukuba, Japan)

13:20-14:40  
**Session 1: Queueing Models with Retrials**  
**Session Chair: Wuyi Yue** (Konan University, Japan)

1. A Priority Retrial Queue with Constant Retrial Policy  
Arnaud Devos (Ghent University, Belgium)  
Joris Walraevens (Ghent University, Belgium)  
Herwig Bruneel (Ghent University, Belgium)

2. Regenerative Analysis of Two-Way Communication Orbit-Queue with General Service Time  
Evsey Morozov (Karelian Research Centre of RAS, Russia)  
Tuan Phung-Duc (University of Tsukuba, Japan)

3. A Retrial Queueing System with a Variable Number of Active Servers: Dynamic Manpower Planning in a Call Center  
Rein Nobel (Vrije Universiteit Amsterdam, Netherlands)

4. An M/G/1/K Retrial Queue with Outgoing Calls  
Velika Dragieva (University of Forestry, Bulgaria)  
Tuan Phung-Duc (University of Tsukuba, Japan)
14:40-15:00
Coffee Break

15:00-16:40
Session 2: Queueing Models with Variants of Service
Session Chair: Sabine Wittevrongel (Ghent University, Belgium)

1. Controllable Capacity Queue with Synchronous Constant Service Time and Loss
   Zsolt Saffer (Vienna University of Technology, Austria)
   Karl Grill (Vienna University of Technology, Austria)
   Wuyi Yue (Konan University, Japan)

2. Delay Analysis of a Queue with General Service Demands and Correlated Service Capacities
   Michiel De Muynck (Ghent University, Belgium)
   Herwig Bruneel (Ghent University, Belgium)
   Sabine Wittevrongel (Ghent University, Belgium)

3. Fluid Polling System with Markov Modulated Load and Gated Discipline
   Zsolt Saffer (Vienna University of Technology, Austria)
   Miklós Telek (Budapest University of Technology and Economics, Hungary)
   Gábor Horváth (Budapest University of Technology and Economics, Hungary)

4. Modelling Large Timescale and Small Timescale Service Variability
   Marco Gribaudo (Politecnico di Milano, Italy)
   Illés Horváth (MTA-BME Information Systems Research Group, Hungary)
   Daniele Manini (Università di Torino, Italy)
   Miklós Telek (Technical University of Budapest, Hungary)

5. Maximizing Throughput in Zero-Buffer Tandem Lines with Constrained Flexible Servers
   Mohammad Yarmand (McMaster University, Canada)
   Douglas Down (McMaster University, Canada)
July 26 (Thursday), Morning Sessions

9:00-10:00
Keynote Speech
Chair: Miklós Telek (Technical University of Budapest, Hungary)
Title: Queueing Models for (Large-Scale) Load Balancing Systems
Prof. Benny Van Houdt (University of Antwerp, Belgium)

10:00-10:20
Coffee Break

10:20-12:00
Session 3: Queueing Models for Wireless Communication
Session Chair: Shoji Kasahara (Nara Institute of Science and Technology, Japan)

1. Two Thresholds Working Vacation Policy for Improving Energy Consumption and Latency in WSNs
   Bachira Boutoumi (University Saad Dahleb of Blida USDB, Algeria)
   Nawel Gharbi (University of Sciences and Technology USTHB, Algeria)

2. Spatial Modeling and Analysis of WLAN with Poisson Point Process
   Youngrock Oh (Korea Advanced Institute of Science and Technology, Korea)
   Ganguk Hwang (Korea Advanced Institute of Science and Technology, Korea)

3. Cognitive Radio Networks with Non-Ideal Spectrum Sensing and Multiple Secondary Users
   Yuan Zhao (Northeastern University at Qinhuangdao, China)
   Wuyi Yue (Konan University, Japan)

4. Performance Analysis of a Dynamic Channel Vacation Scheme in Cognitive Radio Networks
   Wenbo Wang (Yanshan University, China)
   Zhanyou Ma (Yanshan University, China)
   Wuyi Yue (Konan University, Japan)
   Yutaka Takahashi (Kyoto University, Japan)

5. Optimal Resource Allocation for Enterprise Applications Migration to the Cloud
   Shiyong Li (Yanshan University, China)
   Wei Sun (Yanshan University, China)
   Quan-Lin Li (Yanshan University, China)
12:00-13:00
Lunch

July 26 (Thursday), Afternoon Sessions

13:00-13:30
Honorary Talk
Chair: Yutaka Takahashi (Kyoto University, Japan)

Title: Origins and Perspectives of System Performance Evaluation
Prof. Hisashi Kobayashi (Honorary Chair, Princeton University, USA)

13:30-15:10
Session 4: Queueing Models for Cloud Computing
Session Chair: Hsing Luh (National Chengchi University, Taipei)

1. A Task Scheduling Strategy with a Sleep-Delay Timer and a Waking-Up Threshold in Cloud Computing
   Shunfu Jin (Yanshan University, China)
   Xiushuang Wang (Yanshan University, China)
   Wuyi Yue (Konan University, Japan)

   Xiuchen Qie (Yanshan University, China)
   Shunfu Jin (Yanshan University, China)
   Wuyi Yue (Konan University, Japan)

3. Performance Evaluation for a Registration Service with an Energy Efficient Cloud Architecture
   Haixing Wu (Yanshan University, China)
   Shunfu Jin (Yanshan University, China)
   Wuyi Yue (Konan University, Japan)
   Yutaka Takahashi (Kyoto University, Japan)

4. Delay Performance of Data Center Queue with Staggered Setup Policy and Abandonment
   Tuan Phung-Duc (University of Tsukuba, Japan)
   Ken'Ichi Kawanishi (Gunma University, Japan)
5. Queueing Model for Data Center with Server-Block Setup Time
   Shinto Hideyama (University of Tsukuba, Japan)
   Tuan Phung-Duc (University of Tsukuba, Japan)

15:10-15:30
Coffee Break

15:30-16:30
Organized Session
Session Chair: Tony T. Lee (Chinese University of Hong Kong, China)

1. Analysis of Delay and Offloading Efficiency in Deferred Mobile Data Offloading
   Xiaoyi Zhou (Shanghai Jiao Tong University, China)
   Tong Ye (Shanghai Jiao Tong University, China)
   Tony T. Lee (Chinese University of Hong Kong, China)

2. Analysis of Traffic Offloading Strategy of Hybrid Optical/Electrical Data Center Network
   Jianke Li (Shanghai Jiao Tong University, China)
   Tong Ye (Shanghai Jiao Tong University, China)
   Tony T. Lee (The Chinese University of Hong Kong, China)

3. Adaptive Scheduling for Energy Harvesting Sensor Networks
   Liang Huang (Zhejiang University of Technology, China)

16:30-23:30
Conference Events and Banquet
July 27 (Friday), Morning Sessions

09:00-10:20

Session 5: Queueing Models for Social Systems
Session Chair: Rein Nobel (Vrije Universiteit Amsterdam, Netherlands)

1. Analysis of the Service Cycle of an Elevator during Up-Peak
   Sarah Dendievel (Ghent University, Belgium)
   Dieter Claeys (Ghent University, Belgium)
   Joris Walraevens (Ghent University, Belgium)
   Sabine Wittevrongel (Ghent University, Belgium)

2. On the Distribution of Waiting Time of Outpatients in a Hospital
   Hiroyuki Ichihara (Nanzan University, Japan)
   Atsuo Suzuki (Nanzan University, Japan)
   Hidetoshi Miura (Nanzan University, Japan)

3. Extensions of Green Periods for Freight Vehicles at Signalized Intersections: A Stochastic Analysis
   Joris Walraevens (Ghent University, Belgium)
   Tom Maertens (Ghent University, Belgium)
   Sabine Wittevrongel (Ghent University, Belgium)

4. FCFS Parallel Service Systems and Matching Models
   Adan Ivo (Technical University of Eindhoven, The Netherlands)
   Righter Rhonda (University of California at Berkeley, USA)
   Gideon Weiss (The University of Haifa, Israel)

10:20-10:40

Coffee Break

10:40-12:00

Session 6: Optimization in Queueing Models
Session Chair: Ken'Ichi Kawanishi (Gunma University, Japan)

1. On the Impact of Job Size Variability on Heterogeneity-Aware Load Balancing
   Ignace Van Spilbeeck (University of Antwerp, Belgium)
   Benny Van Houdt (University of Antwerp, Belgium)
2. Analysis of VAS, WAS and XAS Scheduling Algorithms for Fiber-Loop Optical Buffers
   Kurt Van Hautegem (Ghent University, Belgium)
   Mario Pinto (Universidad Antonio Nariño, Colombia)
   Herwig Bruneel (Ghent University, Belgium)
   Wouter Rogiest (Ghent University, Belgium)

3. Note on Solving QBD Processes with Special Structures
   Hsing Luh (National Chengchi University, Taipei)

4. Applying Reinforcement Learning to Basic Routing Problem
   Sigurður Gauτ Samúelsson (University of Iceland, Iceland)
   Esa Hyytiä (University of Iceland, Iceland)

12:00-13:00
Lunch

July 27 (Friday), Afternoon Sessions

13:00-14:00
Session 7: Queueing Models with Irregular Events
Session Chair: Bara Kim (Korea University, Korea)

1. Scaling Limits for Markov-Modulated $M^\chi|M|\infty$ Queue with Binomial Catastrophes
   Moeko Yajima (Tokyo Institute of Technology, Japan)
   Tuan Phung-Duc (University of Tsukuba, Japan)

2. On the Loss Probabilities in Two Types of M/G/1 Queues with Impatient Customers
   Yoshiaki Inoue (Osaka University, Japan)

3. The Value of Information when Customers Travel to a Queue
   Ricky Roet-Green (University of Rochester, USA)
   Refael Hassin (Tel Aviv University, Israel)

14:00-14:20
Coffee Break
14:20-16:00
**Session 8: Analyses of Specific Performance Measures in Queueing Models**

**Session Chair: Yoshiaki Inoue** (Osaka University, Japan)

1. Survivability Quantification for Networks (Invited Talk)
   Kishor Trivedi (Duke University, USA and Hiroshima University, Japan)

2. The Joint Distribution of Two Successive Sojourn Times of Tagged Class Customers in the Multi-Class FCFS M/G/1 Queue
   Masatoshi Kimura (Osaka University, Japan)
   Yoshiaki Inoue (Osaka University, Japan)

3. Approximation of Excessive Backlog Probabilities of Two Parallel Queues
   Kamil Demirberk Ünlü (Ankara University and Middle East Technical University, Turkey)
   Ali Devin Sezer (Middle East Technical University, Turkey)

4. A Risk Model with Descendant Claims
   Hyunjoo Yoo (Korea University, Korea)
   Jeongsim Kim (Chungbuk National University, Korea)
   Bara Kim (Korea University, Korea)
   Jiwook Jang (Macquarie University, Australia)

5. A Stochastic Multi-Server Infinite Capacity Feedback Queuing System with Reverse Balking, Customer Impatience and Retention of Impatient Customers
   Bhupender Kumar Som (Jagan Institute of Management Studies, India)
   Sunny Seth (Jagan Institute of Management Studies, India)

16:00-16:30
**Closing Ceremony**

**Prof. Yutaka Takahashi** (General Chair, Kyoto University, Japan)