Program Schedule

June 28, 9:00 hours to 18:00 hours
Main Hall: Registration
Main Room: Welcome and Opening Session
Room 1: Sessions Mo-R1a, Mo-R1b
Room 2: Sessions Mo-R2a, Mo-R2b

9:00 – 10:00 Registration

Welcome – J.R. Artalejo

Opening Session – Chair: Y.Q. Zhao

10:00 – 11:00 Plenary Talk: **Light tail asymptotics in multidimensional reflected random walks and queueing networks**
Author: *M. Miyazawa* (Tokyo University of Science, Japan)

11:00 – 11:30 Coffee Break

Opening Session

11:30 – 12:30 Plenary Talk: **Rate of convergence to stationarity of the system** $M/M/N/N + R$
Author: *E.A. van Doorn* (University of Twente, The Netherlands)

12:30 – 15:00 Lunch Time

Session Mo-R1a – Chair: U. Yechiali

15:00 – 15:25 Contributed Talk: Approximations for the waiting-time distribution in polling systems with renewal arrivals
Authors: *J.L. Dorsman*, *R.D. van der Mei* and *E.M.M. Winands*

15:25 – 15:50 Contributed Talk: A polling model with smart customers
Authors: *M.A.A. Boon*, *A.C.C. van Wijk*, *I.J.B.F. Adan* and *O.J. Boxma*

15:50 – 16:15 Contributed Talk: Two-queue systems where customers of each queue are the servers of the other queue
Authors: *E. Perel* and *U. Yechiali*

Session Mo-R2a – Chair: I. Atencia

15:00 – 15:25 Contributed Talk: FCFS in dual-class discrete-time queueing systems
Authors: *S. De Clercq*, *K. Laevens*, *B. Steyaert* and *H. Bruneel*

15:25 – 15:50 Contributed Talk: Boundary probabilities in the discrete-time selective-repeat ARQ queueing problem
Authors: *S. De Vuyst*, *S. Wittevrongel* and *H. Bruneel*

15:50 – 16:15 Contributed Talk: A discrete-time queueing system with optional LCFS discipline
Authors: *I. Atencia* and *A.V. Pechinkin*

16:15 – 16:45 Coffee Break

Session Mo-R1b – Chair: G. Latouche

16:45 – 17:10 Contributed Talk: Asymptotic behavior for $MArP/PH/2$ queue with join the shortest queue discipline
Author: *Y. Sakuma*

17:10 – 17:35 Contributed Talk: A multi-server queue with Markovian arrivals and priority services
Authors: *S.R. Chakravarthy* and *H. Qing*

17:35 – 18:00 Contributed Talk: Queues with boundary assistance and the many effects of truncation
Authors: *G. Latouche*, *G.T. Nguyen* and *P.G. Taylor*

Session Mo-R2b – Chair: K. Laevens

16:45 – 17:10 Contributed Talk: Recursive equations for multiclass multi-server queueing systems
Author: *B. Rabta*

17:10 – 17:35 Contributed Talk: A multi-class M/PH/1 queue with deterministic impatience times
Authors: *J. Kim*, *B. Kim* and *J. Kim*

17:35 – 18:00 Contributed Talk: Queues with random order of service and multiple classes of customers
Authors: *K. Laevens*, *W. Rogiest*, *J. Walraevens* and *H. Bruneel*

June 29, 9:00 hours to 13:15 hours
Room 1: Sessions Tu-R1a, Tu-R1b
Room 2: Sessions Tu-R2a, Tu-R2b

Session Tu-R1a – Chair: E.A. Feinberg

9:00 – 9:50 Invited Talk: **Bandwidth allocation under delay percentiles**
Authors: *X. Mountrouidou, K. Kontovassilis, B. Anjum* and *H. Perros* (NC State University, USA)

9:50 – 10:15 Contributed Talk: Dynamic control of a single-server two-class retrial queueing system
Author: *A. Winkler*

10:15 – 10:40 Contributed Talk: Optimality of trunk reservation for an $M/M/k/N$ queue with several types of customers and holding costs
Authors: *E.A. Feinberg* and *F. Yang*

Session Tu-R2a – Chair: A.N. Dudin

9:00 – 9:50 Invited Talk: **Priority queuing and tree-structured Markov chains**
Authors: *B. van Houdt* (University of Antwerp, Belgium), *Q.-M. He* and *J. van Velthoven*

9:50 – 10:15 Contributed Talk: Drift conditions for fluid queues
Authors: *M. Govorun, G. Latouche* and *M.A. Remiche*

10:15 – 10:40 Contributed Talk: Multi-server queueing systems with broadcasting service disciplines, servers breakdowns and heating
Authors: *A. Dudin, S. Bin* and *C.S. Kim*

10:40 – 11:10 Coffee Break

Session Tu-R1b – Chair: I. Adan

11:10 – 11:35 Contributed Talk: Queueing system with state-dependent controlled batch arrivals and server under maintenance
Authors: *B. Krishna Kumar, S. Pavai Madheswari* and *S.R. Anantha Lakshmi*

11:35 – 12:00 Contributed Talk: A continuous-time queueing system with renovation
Authors: *I. Atencia, I. Fortes* and *S. Sánchez*

12:00 – 12:25 Contributed Talk: Analysis of an $M/M/k$ system with exponential setup times under staggered boot up
Authors: *A. Gandhi, M. Harchol-Balter* and *I. Adan*

12:25 – 12:50 Contributed Talk: Infinite server queues and their applications
Author: *M.F. Ramalhoto*

12:50 – 13:15 Contributed Talk: Aggregate modelling of multi-processing workstations
Author: *I. Adan*

Session Tu-R2b – Chair: I. Mitrani

11:10 – 11:35 Contributed Talk: Approximation of $M/G/c/K$ retrial queue
Author: *Y.W. Shin*

11:35 – 12:00 Contributed Talk: Distribution of the successful and blocked events in a discrete-time retrial queue
Authors: *J. Amador* and *P. Moreno*

12:00 – 12:25 Contributed Talk: Numerical investigation of a $Geo/PH/1$ retrial queue with non-persistent customers
Author: *S.I. Rabia*

12:25 – 12:50 Contributed Talk: Managing performance and power consumption in a server farm
Author: *I. Mitrani*

12:50 – 14:45 Lunch Time

14:45 – 18:15 Toledo Trip

June 30, 9:00 hours to 18:00 hours
Room 1: Sessions We-R1a, We-R1b, We-R1c, We-R1d
Room 2: Sessions We-R2a, We-R2b, We-R2c, We-R2d

Session We-R1a – Chair: M. Telek

9:00 – 9:50 Invited Talk: **Exact tail asymptotics for random walks in the quarter plane**
Author: *Y.Q. Zhao* (Carleton University, Canada)

9:50 – 10:15 Contributed Talk: Tail behaviour of a finite-/infinite-capacity priority queue
Authors: *T. Demoor*, *J. Walraevens*, *F. Fiems* and *H. Bruneel*

10:15 – 10:40 Contributed Talk: Performance analysis of binary exponential backoff MAC protocol for cognitive radio in the IEEE 802.16e/m network
Authors: *S. Jin*, *J.S. Park* and *B.D. Choi*

10:40 – 11:05 Contributed Talk: On minimal representation of rational arrival processes
Authors: *P. Buchholz* and *M. Telek*

Session We-R2a – Chair: A. Krishnamoorthy

9:00 – 9:50 Invited Talk: **Waiting time approximation in multi-class queueing systems with multiple types of class-dependent interruptions**
Authors: *Ö.S. Uluşçu* and *T. Altıok* (Rutgers University, USA)

9:50 – 10:15 Contributed Talk: Equilibrium balking behavior in an unreliable queue with complete removals at failure epochs
Authors: *O. Boudali* and *A. Economou*

10:15 – 10:40 Contributed Talk: Machine repair problem with variable servers considering balking concept
Authors: *K.-H. Wang* and *Y.-C. Liou*

10:40 – 11:05 Contributed Talk: Queues with service interruption: a survey and some new results
Author: *A. Krishnamoorthy*

11:05 – 11:30 Coffee Break

Session We-R1b – Chair: B. D'Auria

11:30 – 11:55 Contributed Talk: Fluid limits and maximal load in multi-wavelength optical buffer systems
Authors: *K. De Turck*, *W. Rogiest*, *D. Fiems*, *H. Bruneel* and *S. Wittevrongel*

11:55 – 12:20 Contributed Talk: A fluid model analysis of streaming video in the presence of time-varying service capacity
Authors: *J.W.Bosman*, *R. Nunez Queija* and *R.D. van der Mei*

12:20 – 12:45 Contributed Talk: Markov modulated fluid queues with server vacations
Authors: *J.W. Baek*, *H.W. Lee*, *S.W. Lee*, *S. Ahn* and *L. Feng*

12:45 – 13:10 Contributed Talk: Brownian queues with modulated buffer
Authors: *B. D'Auria* and *O. Kella*

Session We-R2b – Chair: A. Pacheco

11:30 – 11:55 Contributed Talk: Influence of correlation in the arrival process on batch-service queueing systems
Authors: *D. Claeys*, *B. Steyaert*, *J. Walraevens*, *K. Laevens* and *H. Bruneel*

11:55 – 12:20 Contributed Talk: Computational analysis of queue-length distribution arising in the continuous-time queue: $GI/G/1$
Authors: *M.L. Chaudhry* and *X. Yang*

12:20 – 12:45 Contributed Talk: A simple and complete computational analysis of $M/G_j^{(m,M)}/1/\infty$ and $M/G_j^{(m,M)}/1/B$ queues using roots
Authors: *M.L. Chaudhry* and *J. Gai*

12:45 – 13:10 Contributed Talk: Customer loss probabilities in busy-periods of batch arrival oscillating $M/G/1/n$ queueing systems
Authors: *F. Ferreira*, *A. Pacheco* and *H. Ribeiro*

13:10 – 15:00 Lunch Time

Session We-R1c – Chair: J. Hasenbein

15:00 – 15:50 Invited Talk: **Stochastic analysis and optimization of queueing networks for cloud computing**
Authors: *S. Ghosh* and *M.S. Squillante* (IBM Thomas J. Watson Research Center, USA)

15:50 – 16:15 Contributed Talk: Fair connection admission control with adaptive thresholds for wireless multimedia networks
Authors: *T.O. Kim*, *A.S. Alfa* and *B.D. Choi*

16:15 – 16:40 Contributed Talk: Scheduling in tandem flexible server queueing systems
Authors: *J. Hasenbein* and *B. Kim*

Session We-R2c – Chair: M. Baykal-Gursoy

15:00 – 15:50 Invited Talk: **On first passage problems for piecewise deterministic processes with phase-type jumps**
Authors: *F. Avram* (Universite de Pau, France) and *X. de Lucas Araujo*

15:50 – 16:15 Contributed Talk: $M/D/1$, $M/D/\infty$ and stick breaking
Authors: *J.S.H. van Leeuwaarden*, *A.H. Lopker* and *A.J.E.M. Janssen*

16:15 – 16:40 Contributed Talk: Completion time analysis for infinite server queues with two service speeds
Authors: *M. Baykal-Gursoy* and *Z. Duan*

16:40 – 17:10 Coffee Break

Session We-R1d – Chair: P. Brill

17:10 – 17:35 Contributed Talk: Inference statistic for retrial queues with negative arrivals
Authors: *L. Berdjoudj* and *D. Aissani*

17:35 – 18:00 Contributed Talk: $M/G/c/c$ queues with workload-dependent arrival rate
Authors: *P. Brill* and *M.L. Huang*

Session We-R2d – Chair: A. Ridder

17:10 – 17:35 Contributed Talk: Universal generation of fractal statistics: data-traffic, queues, and physics
Authors: *I. Eliazar* and *J. Klafter*

17:35 – 18:00 Contributed Talk: Importance sampling for rare events in random walks and queueing models
Authors: *A. Ridder* and *T. Taimre*

20:30 – 22:30 Conference Dinner (tentative time)

July 1, 9:00 hours to 13:10 hours
Room 1: Sessions Th-R1a, Th-R1b
Room 2: Sessions Th-R2a, Th-R2b

Session Th-R1a – Chair: R. Nobel

9:00 – 9:50 Invited Talk: **The single server queue with synchronized repeated services**
Authors: *A. Economou* (University of Athens, Greece), *S. Kapodistria* and *J. Resing*

9:50 – 10:15 Contributed Talk: A single server queue with synchronized abandonments
Author: *S. Kapodistria*

10:15 – 10:40 Contributed Talk: Matrix continued fraction approach to level-dependent QBD process and its application to multiserver retrial queues
Authors: *T. Phung-Duc*, *H. Masuyama*, *S. Kasahara* and *Y. Takahashi*

10:40 – 11:05 Contributed Talk: A discrete-time retrial queueing model with abandonments
Author: *R. Nobel*

Session Th-R2a – Chair: M. Kobayashi

9:00 – 9:50 Invited Talk: **Polling tree networks**
Authors: *P. Beekhuizen*, *D. Denteneer* and *J. Resing* (Eindhoven University of Technology, The Netherlands)

9:50 – 10:15 Contributed Talk: Queueing model of the FSO/RF hybrid channel with heterogeneous links subject to failures
Authors: *D. Efrosinin* and *V. Rykov*

10:15 – 10:40 Contributed Talk: Analysis of $MAP/G^{(a,b)}/1/N$ queue with multiple vacations and closedown times
Authors: *A. Senthil Vadivu* and *R. Arumuganathan*

10:40 – 11:05 Contributed Talk: Join the shortest queue among similar c parallel service stations
Authors: *M. Kobayashi*, *Y. Sakuma* and *M. Miyazawa*

11:05 – 11:30 Coffee Break

Session Th-R1b – Chair: D. Fiems

11:30 – 11:55 Contributed Talk: Limits of cyclically varying birth-death processes and applications
Authors: *M. Jonckheere*, *Y. Nazarathy* and *R. Nunez Queija*

11:55 – 12:20 Contributed Talk: Performance analysis of sleep mode operation in IEEE 802.16m advanced mobile WiMAX
Authors: *S. Baek*, *J.J. Son* and *B.D. Choi*

12:20 – 12:45 Contributed Talk: Stability analysis of a two-queue cascade network
Authors: *E. Morozov* and *B. Steyaert*

12:45 – 13:10 Contributed Talk: Light-correlation analysis of queues with autoregressive service times
Authors: *D. Fiems* and *B. Prabhu*

Session Th-R2b – Chair: R.D. van der Mei

11:30 – 11:55 Contributed Talk: Flexible server allocation and customer routing policies for two parallel queues when service rates are not additive
Authors: *H.-S. Ahn* and *M.E. Lewis*

11:55 – 12:20 Contributed Talk: Periodic and continuous review analytical models for airline check-in queues
Authors: *S. Moosa*, *M. Parlar* and *B. Rodrigues*

12:20 – 12:45 Contributed Talk: Optimal routing in parallel, non-observable queue and the price of anarchy revisited
Authors: *J. Anselmi* and *B. Gaujal*

12:45 – 13:10 Contributed Talk: Optimal resource allocation of time-reservation systems
Authors: *R. Yang*, *S. Bhulai* and *R.D. van der Mei*

13:10 – 14:15 Farewell Cocktail