

# ASMTA 2016

## Conference program

### Day 1: August 24

9:15 – 9:30 Opening Session

9:30 – 10:30 Keynote Talk by Omer F. Rana, joint with NGMAST 2016

10:30 – 11:00 Coffee

11:00 – 12:15 Session 1: Networks (Session chair: Marco Gribaudo)

- A DTMC model for performance evaluation of irregular interconnection networks with Asymmetric Spatial Traffic Distributions  
*Daniel Lüdtkke and Dietmar Tutsch*
- Modelling unfairness in IEEE 802.11g networks with variable frame length  
*Choman Othman Abdullah and Nigel Thomas*
- Subsampling for chain-referral methods  
*Konstantin Avrachenkov, Giovanni Neglia and Alina Tuholukova*

12:40 – 14:00 Lunch

14:00 – 15:15 Session 2: Queueing Analysis 1 (Session chair: António Pacheco)

- System occupancy of a two-class batch-service queue with class-dependent variable server capacity  
*Jens Baetens, Bart Steyaert, Dieter Claeys and Herwig Bruneel*
- Sojourn time analysis for processor sharing loss system with unreliable server  
*Konstantin Samouylov, Valery Naumov, Eduard Sopin, Irina Gudkova and Sergey Shorgin*
- A law of large numbers for M/M/c/Delayoff-Setup queues with nonstationary arrivals  
*Jamol Pender and Tuan Phung-Duc*

15:15 – 15:45 Coffee

15:45 – 17:00 Session 3: Markovian Processes (Session chair: José Niño-Mora)

- Efficient implementations of the EM-algorithm for transient Markovian arrival processes  
*Mindaugas Bražėnas, Gábor Horváth and Miklós Telek*
- Fluid analysis of spatio-temporal properties of agents in a population model  
*Luca Bortolussi and Max Tschaikowski*
- Fingerprinting and reconstruction of functionals of discrete time Markov chains  
*Attila Egri, Illés Horváth, Ferenc Kovács and Roland Molontay*

## Day 2: August 25

9:30 – 10:30 Keynote Talk by Florin Ciucu (Session chair: Sabine Wittevrongel)

10:30 – 11:00 Coffee

11:00 – 12:15 Session 4: Energy (Session chair: Nigel Thomas)

- A smart neighbourhood simulation tool for shared energy storage and exchange  
*Michael Biech, Timo Bigdon, Christian Dielitz, Georg Fromme and Anne Remke*
- Optimal data collection in hybrid energy-harvesting sensor networks  
*Kishor Patil, Koen De Turck and Dieter Fiems*
- Energy-aware data centers with s-staggered setup and abandonment  
*Tuan Phung-Duc and Ken'Ichi Kawanishi*

12:40 – 14:00 Lunch

14:00 – 15:15 Session 5: Applications (Session chair: Ioannis Dimitriou)

- Planning inland container shipping: a stochastic assignment problem  
*Kees Kooiman, Frank Phillipson and Alex Sangers*
- Fluid approximation of pool depletion systems  
*Enrico Barbierato, Marco Gribaudo and Daniele Manini*
- Whittle's index policy for multi-target tracking with jamming and nondetections  
*José Niño-Mora*

15:15 – 15:45 Coffee

15:45 – 17:00 Session 6: Performance Evaluation (Session chair: Max Tschaikowski)

- Applying reversibility theory for the performance evaluation of reversible computations  
*Simonetta Balsamo, Filippo Cavallin, Andrea Marin and Sabina Rossi*
- Performance modelling of optimistic fair exchange  
*Yishi Zhao and Nigel Thomas*
- Stochastic bounds and histograms for active queues management and networks analysis  
*Farah Aït-Salaht, Hind Castel-Taleb, Jean-Michel Fourneau and Nihal Pekergin*

## Day 3: August 26

9:30 – 10:30 Keynote Talk by Anne Bouillard (Session chair: Tuan Phung-Duc)

10:30 – 11:00 Coffee

11:00 – 12:15 Session 7: Queueing Analysis 2 (Session chair: Nihal Pekergin)

- A retrial queue to model a two-relay cooperative wireless system with simultaneous packet reception  
*Ioannis Dimitriou*
- Analysis of a two-class priority queue with correlated arrivals from another node  
*Abdulfetah Khalid, Sofian De Clercq, Bart Steyaert and Joris Walraevens*
- On the blocking probability and loss rates in nonpreemptive oscillating queueing systems  
*Fátima Ferreira, António Pacheco and Helena Ribeiro*

12:15 – 12:40 Best Paper Award and Closing Session

12:40 – 14:00 Goodbye Lunch