

# ASMTA 2021

## Conference program

We consider CET (Central European Time)

### Day 1: December 13

8:15-8:30 Opening Session

8:30-10:00 Session 1: Performance analysis (Session Chair: Ken'ichi Kawanishi)

- Anatoly Nazarov, Svetlana Paul, [Tuan Phung-Duc](#) and Mariya Morozova, *Analysis of tandem Retrial Queue with common orbit and Poisson arrival process*
- [Ayane Nakamura](#) and Tuan Phung-Duc, *Stationary Analysis of Infinite Server Queue with Batch Service*
- [M. Akif Yazici](#), *An Analytical Framework for Video Quality and Excess Data Distribution in Multiple-quality Video under Dynamic Channel Conditions*
- Ayane Nakamura, [Tuan Phung-Duc](#) and Hiroyasu Ando, *Queueing Analysis of a Mixed Model of Public and Demand Responsive Transportations*

10:00-10:30 Break

10:30-11:30 Keynote Talk by [Antonis Economou](#), *The impact of information on strategic customer behavior in queueing systems* (Session Chair: Joris Walraevens)

11:30-12:00 Break

12:00-13:30 Session 2: Queueing games & applications (Session Chair: Koen De Turck)

- Sami Dallali, [Clara Fontaine](#) and Eitan Altman, *Splittable Routing Games in Ring Topology with Losses*
- [Dimitrios Logothetis](#) and Antonis Economou, *Routing of strategic passengers in a transportation station*
- [Alix Dupont](#), Yezekael Hayel, Tania Jimenez, Olivier Beaudé and Cheng Wan, *Coupled queueing and charging game model with energy capacity optimization*
- Lelio Campanile, Michele Mastroianni, [Marco Gribaudo](#) and Mauro Iacono, *Hybrid simulation of moving agents systems applied to energy management in IoT edge computing surveillance systems*

13:30-14:30 Break

14:30-16:00 Session 3: Statistics & modeling (Session Chair: Marco Gribaudo)

- [Salah Al-Deen Almousa](#), Gábor Horváth and Miklos Telek, *EM based parameter estimation for Markov modulated Fluid Arrival Processes*
- [Thomas Tournaire](#), Jeanne Barthélémy, Hind Castel and Emmanuel Hyon, *Reinforcement learning with model-based approaches for dynamic resource allocation in a tandem queue*
- [Paolo Ballarini](#) and András Horváth, *Performance analysis of production lines through statistical model checking*
- [Paul Reeser](#), *Reliability Reference Model for Topology Configuration*

## Day 2: December 14

8:30-10:00 Session 4: Applications (Session Chair: Céline Comte)

- [Mitsuki Sato](#), Kohei Kawamura, Ken'Ichi Kawanishi and Tuan Phung-Duc, *Performance Models of NFV-based Hybrid Systems for Delay-sensitive Services*.
- [Maria Gamboa Pérez](#), Martín López García and María Jesús López Herrero, *A stochastic SVIR model with imperfect vaccine and external source of infection*.
- [Youssef Ait El Mahjoub](#), Jean-Michel Fourneau and Hind Castel-Taleb, *Performance evaluation and energy consumption for DVFS processor*.
- [Jamie Paterson](#), Martin Lopez-Garcia, Joseph Gillard, Thomas R Laws, Grant Lythe and Carmen Molina-Paris, *Analysis of single bacterium dynamics in a stochastic model of toxin-producing bacteria*.

10:00-10:30 Break

10:30-11:30 Keynote Talk by [Neil Walton](#), *Learning and Information in Stochastic Networks and Queues*  
(Session Chair: Ioannis Dimitriou)

11:30-12:00 Break

12:00-13:30 Session 5: Queueing analysis (Session Chair: Mehmet Akif Yazıcı)

- [Ioannis Dimitriou](#), *The Join the Shortest Orbit Queue System with a Finite Priority Line*
- [Abhijit Datta Banik](#), Mohan L. Chaudhry, Sabine Wittevrongel and Herwig Bruneel, *A short note on the system-length distribution in a finite-buffer  $G^X/C^s-MSP/1/N$  queue using roots*
- [Céline Comte](#) and Jan-Pieter Dorsman, *Performance Evaluation of Stochastic Bipartite Matching Models*
- [Paul Reeser](#), *Highly Accurate, Explicit Approximation for Erlang B*

13:30-14:00 Closing Session