

# 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: Applications (Session Chair: TBD)

- 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 Antonis Economou (Session Chair: TBD)

11:30-12:00 Break

12:00-13:30 Session 2: Queueing games and applications (Session Chair: TBD)

- 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: TBD)

- 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: Performance Analysis (Session Chair: TBD)

- 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*
- Ayane Nakamura, Tuan Phung-Duc and Hiroyasu Ando, *Queueing Analysis of a Mixed Model of Public and Demand Responsive Transportations*
- M. Akif Yazici, *An Analytical Framework for Video Quality and Excess Data Distribution in Multiple-quality Video under Dynamic Channel Conditions*

10:00-10:30 Break

10:30-11:30 Keynote Talk by Neil Walton (Session Chair: TBD)

11:30-12:00 Break

12:00-13:30 Session 5: Queueing Analysis (Session Chair: TBD)

- 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  $GI^X/C\$/MSP/1/N\$/ queue using roots$*
- 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 Best Paper Award and Closing Session