## Monday July 18, 2016

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<tr>
<td>8:30 -</td>
<td>Registration</td>
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<td>9:15 - 9:30</td>
<td>Opening Session (Room: Amphi B00)</td>
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<td>9:30 - 10:30</td>
<td>Keynote 1: Costis Maglaras (Room: Amphi B00)</td>
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<td>10:30 -</td>
<td>Coffee break</td>
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<td>MA</td>
<td>11:00 - 12:30</td>
<td>Multiserver systems</td>
<td>Applications of Queueing Theory to 5G wireless networks</td>
<td>Health Care</td>
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<td>Mark Lewis</td>
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<td>Pender</td>
<td>Maialen Larrañaga</td>
<td>David Stanford</td>
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<td>12:30 - 14:00</td>
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<td>MB</td>
<td>14:00 - 15:30</td>
<td>Load Balancing</td>
<td>Stability and Performance Analysis</td>
<td>Approximations</td>
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<td>Itai Gurvich</td>
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<td>Rosario Delgado</td>
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<td>MC</td>
<td>16:00 - 17:10</td>
<td>Networks</td>
<td>Single Server Queue</td>
<td>Batch Systems</td>
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<td>Jonatha Anselmi</td>
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<td>19:00 - 21:30</td>
<td>Cruise and reception on the Garonne River</td>
<td>(departure from Quai de la daurade)</td>
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## Tuesday July 19, 2016

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<tr>
<td>9:00 - 10:30</td>
<td>Queueing Networks and Approximations</td>
<td>Communication Systems</td>
<td>Strategic Agents and Optimization in Queueing</td>
<td>Interruption Models</td>
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<td>John Hasenbein</td>
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<td>Antonis Economou</td>
<td>Hans Daduna</td>
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<td>TB</td>
<td>11:00 - 12:30</td>
<td>Queueing and Insurance Risk</td>
<td>Road Traffic Models</td>
<td>Queues and Rare Events</td>
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<td>Onno Boxma</td>
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<td>14:00 - 15:00</td>
<td>Keynote 2: Bruno Gaujal (Room: Amphi B00)</td>
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<td>15:00 - 15:45</td>
<td>Takács award ceremony (Room: Amphi B00)</td>
<td>Award lecture: Harsha Honnappa</td>
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<td>15:45 - 16:15</td>
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<td>16:30 - 23:00</td>
<td>Visit to Aeroscopia museum followed by conference dinner</td>
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<td>9:00 - 10:30</td>
<td>Amphi B00</td>
<td>Mobile Networks</td>
<td>Random Environment and Modulation</td>
<td>Flexible Service Systems</td>
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<td>Florian Simatos</td>
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<td>11:00 - 12:30</td>
<td>Amphi B00</td>
<td>Restless Bandits and Partial Observations</td>
<td>Delay Analysis</td>
<td>Retrial and Priorities</td>
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<td>Yoni Nazarathy</td>
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<td>14:00 - 15:00</td>
<td>Amphi B00</td>
<td>Scaling Limits</td>
<td>Inventories and Assembly Lines</td>
<td>Admission Control and Priorities</td>
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<td>Ton Dieker</td>
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Monday 11:00 - 12:30

Session MA1 (Invited) - Multiserver systems
Chair and organizer: Mark Lewis, in Amphi B00

1. M/M/c delay-off setup queues with nonstationary arrivals: A fluid model approach
   Pender, J.; Phung-Duc, T.
2. Single- and multi-server systems with deadlines
   Hyytiä, E.; Righter, R.; Virtamo, J.
3. Exact analysis of energy-aware queueing systems with setup times
   Maccio, V.J.; Down, D.G.
4. Parallel queues with partial task replication
   Gardner, K.; Harchol-Balter, M.; Hyytiä, E.; Righter, R.

Session MA2 (Invited) - Applications of Queueing Theory to 5G wireless networks
Organizer: Georgios Paschos, Chair: Maialen Larrañaga, in A001

1. Delay analysis of queueing networks with context-switching overhead
   Hsieh, P.-C.; Hou, I.-H.
2. Online learning in stochastic network control
   Huang, L.
3. Efficient flow assignment in heterogeneous 5G cellular networks
   Spyropoulos, T.S.
4. A queueing system to model cooperative wireless networks with coupled relay nodes and simultaneous packet reception
   Dimitriou, I.D.

Session MA3 - Health Care, Chair: David Stanford, in A002

1. Finite-size effects in critically dimensioned emergency departments
   van Leeuwaarden, J.S.H.; Mathijsen, B.W.J.; Sloothaak, F.
2. A queueing model to analyse the impact of boarding in the emergency department
   Carmen, R; Van Nieuwenhuyse, I; van Houdt, B
3. Appointment scheduling in healthcare
   Kuiper, A.; Mandjes, M.R.H.; de Mast, J.; Brokkelkamp, R.
4. Using infinite-server queues to underpin model-based performance indicators
   Worthington, D.W; Suen, D.S; Allen, M.A

Session MA4 - Bounds for Queueing Models, Chair: Ivo Adan, in C002

1. Stochastic bounds on performance of finite capacity queues in tandem
   Ait-Salaht, F.; Castel Taleb, H.; Fournear, J.M.; Pekergin, N.
2. Strong stability bounds for queues
   Issaadi, B.; Abbas, K.; Aissani, D.
3. Ergodicity and perturbation bounds for inhomogeneous birth-death queueing models with particularities
   Zeifman, A.; Shilova, G.; Korotysheva, A.; Satin, Y.; Korolev, V.
4. On bounds for convergence rate of regenerative process
   Zverkina, G.A.

Monday 14:00 - 15:30

Session MB1 - Load Balancing, Chair: Itai Gurvich, in Amphi B00

1. On the finite capacity symmetric shortest queue problem: stationary analysis and loss probability
   Fricker, C.; Santini Dester, P.; Tibi, D.
2. Assigning multiple job types to parallel specialized servers by mixing decision rules
   van der Laan, D.A.
3. Insensitivity of the mean field power-of-d routing in Erlang loss systems
   Vasantam, T.; Mukhopadhyay, A.; Mazumdar, R.
4. Open-loop control of parallel FIFO queues: asymptotic optimality of a subset of policies
   Anselmi, J.
Session MB2 - Stability and Performance Analysis, Chair: Rosario Delgado, in A001

1. Fluid models of parallel service systems under FCFS
   Weiss, G.; Nov, Y.; Zhang, H.
2. Stability of stochastic matching systems via fluid limits
   Moyal, P.; Perry, O.
3. Stability analysis of a multiclass multiserver system with classical retrials
   Morozov, E.; Phung-Duc, T.
4. Comparison of FBFS and LBFS disciplines for a two station four class network with static buffer priority
   Miyazawa, M.

Session MB3 - Approximations, Chair: Jacques Resing, in A002

1. Approximation for queueing dynamics in inpatient ward operations
   Dong, J.; Perry, O.
2. Properties and applications of PH distributions with finite support
   Horvath, G.; Telek, M.
3. Approximate mean value analysis for large multi-class multi-server queueing networks
   Legato, P.; Mazza, R.M.
4. On matrix-exponential approximations of ladder distributions for Sparre-Andersen processes, and an application to risk networks
   Avram, F.

Monday 16:00 - 17:10

Session MC1 - Networks, Chair: Jonatha Anselmi, in Amphi B00

1. Mean service rate in queueing systems under balanced fairness
   Bonald, T.; Comte, C.; Shah, V.; de Veciana, G.
2. LB-networks: load balanced queueing networks in product-form
   Balsamo, S.; Fourneau, J.M.; Marin, A.
3. Where are the bottlenecks?
   Pollett, P.K.

Session MC2 - Single Server Queue, Chair: Joris Walraevens, in A001

1. An alternative model to M/G/1
   Prado, S.M.; Viola, M.L.; Louzada, F.; Rodrigues, J.
2. Moment analysis of queues with zero-regenerative arrivals
   De Clercq, S.; Fiems, D.
3. Bayesian analysis of hidden Markov modulated queues with abandonment
   Ozekici, S.; Soyer, R.; Landon, J.

Session MC3 - Batch Systems, Chair: Bara Kim, in A002

1. Computational analysis of stationary probabilities for the queueing systems: GI\([X]/C-MSP/1/N\) and GI/C-BMSP/1/N
   using RG-factorization
   Banik, A.D.; Ghosh, S.; Chaudhry, M.L.
2. Loading and unloading trains and trucks at container terminals
   Gharehgozli, A.H.; Roy, D.; van Ommeren, J.C.W.
3. Batch arrival single server queue with variable service speed and setup time
   Yajima, M.; Phung-Duc, T.
Tuesday 9:00 - 10:30

Session TA1 (Invited) - Queueing Networks and Approximations
Chair and organizer: John Hasenbein, in Amphi B00

1. Probabilistic matching networks
   Büke, B.B.
2. Beyond heavy-traffic assumptions: Universal approximations and optimization for the single-server queue
   Huang, J.; Gurvich, I.
3. Staffing queues with a random number of servers
   Ibrahim, R. I.
4. Parameter uncertainty in Naor’s model
   Hasenbein, J.H.; Chen, L.C.

Session TA2 - Communication Systems, Chair: Alain Simonian, in A001

1. Optimal dynamic post-process batching in a single server queue
   Hristov, A.V.; Bosman, J.W.; van der Mei, R.D.; Bhulai, S.
2. A two-queue model for optimising the value of information in energy-harvesting sensor networks
   Patil, K.; Fiems, D.
3. Traffic splitting: Sojourn times in concurrent TCP-based networks
   Bosman, J.W.; Hoekstra, G.J.; van der Mei, R.D.
4. Dynamic placement of resources under stochastic demands in cloud computing and network applications
   Rochman, Y.R.; Levy, H.L; Brosh, E.B.

Session TA3 (Invited) - Strategic Agents and Optimization in Queueing
Chair and organizer: Antonis Economou, in A002

1. A call center problem of M(n)/G/c+G approximation
   Kanavetas, O.; Balcigoulu, B.
2. On non-equilibria threshold strategies in ticket queues
   Kerner, Y.; Schertzzer, E.; Yanco, M.A.
3. The effects of information in transportation systems with heterogeneous strategic customers
   Manou, A.; Canbolat, P.G.; Karaesmen, F.
4. Strategic sensing in cognitive radio networks
   Hassin, R.; Snitkovsky, R.I.

Session TA4 - Interruption Models, Chair: Hans Daduna, in C002

1. On the investigation and simulation of reliability model in mixed-component open computer networks
   Minkevičius, S.; Greičius, E.
2. Approximation of tandem queueing networks with unreliable servers and blocking
   Shin, Y.W.; Moon, D.H.
3. Reliability analysis of a controllable queueing system with two heterogeneous servers subject to failures
   Efrosinin, D.; Sztrik, J.; Farkhadov, M.
4. Cost optimization and sensitivity analysis of the N policy M/G/1 queue with working breakdowns
   Chen, J.-Y.; Wang, K.-H.; Sheu, S.-P.

Tuesday 11:00 - 12:30

Session TB1 (Invited) - Queueing and Insurance Risk
Chair and organizer: Onno Boxma, in Amphi B00

1. Shot-noise processes in relation to queueing theory and insurance risk
   Koops, D.T.; Mandjes, M.R.H.; Boxma, O.J.
2. A Two-dimensional Polling model
   Boxma, O.J.; Kapodistria, S.; Núñez-Queija, R.; Saxena, M.
3. The dual risk model with Parisian ruin
   Keren, A.; Frostig, E.
4. Partial coverages by a rich uncle until bankruptcy: A model of reinsurance
   Perry, D.; Boxma, O.J.; Frostig, E.
Session TB2 (Invited) - Road Traffic Models  
Organizer: Sindo Núñez-Queija, Chair: Peter Kóvacs, in A001

1. Stationary analysis of a multi-type queue with dependent service durations  
   Abhishek; Boxma, O.J.; Núñez-Queija, R.
2. Green wave phenomena for series of fixed-cycle traffic-light queues  
   Boon, M.A.A.; van Leeuwaarden, J.S.H.; Boere, R.M.; Maes, K.J.
3. Exact expected delay and distribution for FCTL-like systems in explicit form  
   Oblakova, A.; Al Hanbali, A.; van Ommeren, J.C.W.
4. Backpressure control for motorway traffic  
   Abhishek; Kovács, P.; Núñez-Queija, R.; Raina, G.

Session TB3 (Invited) - Queues and Rare Events  
Chair and organizer: Ad Ridder, in A002

1. Analysis of a state-independent change of measure for the G/G/1 tandem queue  
   Buijsrogge, A.; de Boer, P.T.; Scheinhardt, W.R.W.
2. Rare event analysis and efficient simulation for a multi-dimensional ruin problem  
   Cahen, E.J.; Mandjes, M.R.H.; Zwart, A.P.
3. Overflow analysis of multiple stacks running on the same memory  
   Sezer, A.D.; Unlü, K.D.
4. Rare-event analysis and simulation of queues with time-varying rates  
   Ridder, Ad

Session TB4 - Optimization and Control, Chair: Ohad Perry, in C002

1. Risk-sensitive control of epidemics over diverse networks  
   De Turck, K.
2. The use of appropriate information structures for the control of queues with strategic customers  
   Economou, A.
3. Server farm optimisation  
   Spieksma, F.M.
4. Modelling and multilevel optimization of assembly lines using queueing networks  
   Yuzukirmizi, M.Y.

Wednesday 9:00 - 10:30

Session WA1 (Invited) - Mobile Networks  
Chair and organizer: Florian Simatos, in Amphi B00

1. Mobility-aware scheduling in cellular data networks  
   Abbas, N.; Bonald, T.; Sayrac, B.
2. Queueing networks as mobility models for mobile sensor nodes  
   Daduna, H.
3. Predicting explicitly the QoS in mobile cellular networks by leveraging stochastic geometry and queueing theory  
   Karray, M.K.; Blaszczyszyn, B.
4. Performance of moving users in small cells networks  
   Olivier, P.O.; Simonian, A.S.

Session WA2 - Random Environment and Modulation, Chair: Koen de Turck, in A001

1. Queueing sytems in a random environment: asymptotic analysis and MOL staffing  
   Heemskerk, M.; van Leeuwaarden, J.S.H.; Mandjes, M.R.H.
2. A functional central limit theorem for a modulated network of infinite-server queues  
   Jansen, H.M.; Mandjes, M.R.H.; De Turck, K.; Wittevrongel, S.
3. Queueing models with service speed adaptations at arrival instants of an external observer  
   Núñez-Queija, R.; Prabhu, B.J.; Resing, J.A.C.
4. Sur le temps d’absorption dans un modèle de population en environnement aléatoire  
   Bacaër, N.
Session WA3 - Flexible Service Systems, Chair: Benjamin Legros, in A002

1. Delay-minimizing capacity allocation in an infinite server queueing system
   Ravner, L.; Hassin, R.
2. Exact solution for service system with fixed and flexible servers
   Phung-Duc, T.
3. Flexible k-limited service for large-scale symmetric polling systems
   Meyfroyt, T.M.M.; Boon, M.A.A.; Borst, S.C.; Boxma, O.J.
4. Sojourn time distribution in polling systems with processor-sharing discipline
   Kim, Jeongsim; Kim, B.

Session WA4 - Analytical Methods, Chair: Dieter Fiems, in C002

1. A new look at matrix-analytic methods
   Fralix, B.; Joyner, J.
2. A matrix geometric approach for random walks
   Kapodistria, S.; Palmowski, Z.
3. Queue-length balance equations in multiclass multiserver queues
   Boxma, O.J.; Boon, M.A.A.; Kella, O.
4. The simple and efficient results in terms of roots for the GI^k/Geo/c queueing system
   Kim, James; Chaudhry, M.L.

Wednesday 11:00 - 12:30

Session WB1 (Invited) - Restless Bandits and Partial Observations
Chair and organizer: Yoni Nazarathy, in Amphi B00

1. Opportunistic scheduling with flow size information for Markovian time-varying channels
   Aalto, S.; Lassila, P.; Osti, P.
2. Dynamic pilot allocation over Markovian fading channels: A restless bandit approach
   Larrañaga, M; Assaad, M; Destounis, A; Paschos, G. S.
3. Primal-dual accelerated gradient algorithm for a stochastic multi-armed bandit governed by a stationary finite Markov chain
   Nazin, A.V.; Miller, B.M.
4. Switching between partially observable servers
   Nazarathy, Y. N.

Session WB2 - Delay Analysis, Chair: Miklos Telek, in A001

1. The Beneš formula for the virtual waiting time: application to discrete-time queueing models
   Steyaert, B.; Fiems, D.; Bruneel, H.
2. Delay analysis of a place reservation queue with heterogeneous service requirements
   Wittevrongel, S.; Feyaerts, B.; Bruneel, H.; De Vuyst, S.
3. Simultaneous arrival of customers to two different queues and modeling dependence via copula approach
   Behzad, R.; Salehi Rad, M.R.
4. Occupation times of alternating renewal processes with Lévy applications
   Starreveld, N.J.; Bekker, R.; Mandjes, M.R.H.

Session WB3 - Retrial and Priorities, Chair: Yoav Kerner, in A002

1. Stochastic comparison of a single server queue with retrials and priority customers
   Boualem, M.B.; Bareche, A.B.; Cherfaoui, M.C.
2. Analysis of the number of orbiting customers in M/G/1 retrial queue with general retrial times
   Arrar, N.; Djellab, N.
3. A mixed retrial/delay queueing model in discrete time with high priority for primary retrial customers and low priority for the secondary retrial customers
   Nobel, R.D.
4. Asymptotics in priority retrial queues
   Walraevens, J.; Phung-Duc, T.
Session WB4 (Invited) - Inventory, Queueing Control, and Rare Events  
Chair and organizer: Douglas Down, in C002

1. Two perishable inventory systems with one-way substitution  
   Adan, I.J.B.F.; Liu, L.; Perry, D.
2. Rare event estimation for Gaussian random vectors  
   Birge, R.; Dieker, A.B.
3. Optimal (batch) dispatching in a tandem queue  
   van Leeuwen, D.; Núñez-Queija, R.
4. Admission control in a two class loss system with periodically varying parameters and abandonments  
   Lewis, M.L.; Zayas-Caban, G.Z.

Wednesday 15:30 - 17:00

Session WC1 - Scaling Limits, Chair: Ton Dieker, in Amphi B00

1. Heavy-traffic analysis of a $N$–model system with fluid queues  
   Delgado, R.D.
2. State space collapse for a two-layered network  
   Aveklouris, A.; Vlasiou, M.; Zhang, J.; Zwart, A.P.
3. An M/M/$\infty$-type model for synchronization in the Bitcoin network  
   Remerova, M.; Mandjes, M.R.H.
4. The power of local choices in bike-sharing systems  
   Fricker, C.; Santini Dester, P.

Session WC2 - Inventories and Assembly Lines, Chair: David Perry, in A001

1. The M/M/1 queue with an attached continuous-type inventory  
   Baek, J.W.; Bae, Y.H.; Lee, H.W.; Ahn, S.
2. Taylor series expansion approach for epistemic uncertainty propagation in queueing models with inventory management  
   Soufit, M.; Abbas, K.
3. Coupled queues with customer impatience  
   Fiems, D.; Evdokimova, E.; De Turck, K.

Session WC3 - Admission Control and Priorities, Chair: Samuli Aalto, in A002

1. Equilibrium sets of some GI/M/1 queues  
   Hemachandra, N.; Tripathi, S.; Patil, K.
2. Nonlinear accumulating priority queues with equivalent linear proxies  
   Li, N.; Stanford, D.A.; Taylor, P.; Ziedins, I.
3. Routing strategies for multi-channel call centers: Should we delay the call rejection?  
   Legros, B.; Jouini, O.; Koole, G.M.
4. Poles of $N/\infty$ priority queues  
   Dendievel, S.; Walraevens, J.; Bruneel, H.