

2nd Symposium on Spatial Networks

Tuesday, September 12

17:30 Drinks reception @ Oriel College

Wednesday, September 13

09:45 Welcome

10:00 Keynote lecture – Francois Baccelli: Shot-noise based spatial birth-and-death processes

11:00 COFFEE BREAK

11:40 Jürgen Hackl: Markov marked point processes for vertex creation in multi-layer spatially embedded random networks

12:05 Shahriar Etemadi Tajbakhsh: Accessibility and delay in random spatio-temporal networks

12:30 LUNCH

13:30 Keynote lecture - Marco Di Renzo: Stochastic geometry modeling of cellular networks: From system-level analysis to system-level optimization

14:30 Amogh Rajanna: Enhanced cellular coverage and throughput using rateless codes

14:55 Pete Pratt: Optimal access point deployment in finite-area, ultra-dense networks

15:20 COFFEE BREAK

16:00 Keynote lecture - Ginestra Bianconi: Emergent network geometry

17:00 Alexander Kartun-Giles: Counting k-hop paths in the random connection model

17:25 Matthew Garrod: Large fluctuations in the algebraic connectivity of Gaussian random geometric graphs

19:30 Conference Dinner @ Oriel College

Thursday, September 14

10:00 Keynote lecture - Marc Barthélemy: The betweenness centrality in random planar graphs

11:00 COFFEE BREAK

11:40 Florian Klimm: Contagion dynamics for topological data analysis on spatial networks

12:05 Jürgen Hackl: LaTeX library for visualizing complex networks

12:30 LUNCH

13:40 Kostas Koufos: Boundaries can enhance physical layer security at high data rates

14:05 Nguyen Truong: From personal experience to global reputation for trust evaluation in the Internet of Things

14:30 Raihana Mokhlissi: The evaluation of the complexity of complex networks

14:55 Marc Wiedermann: Spatial network surrogates for disentangling complex system structure from spatial embedding of nodes

15:20 COFFEE BREAK

16:00 Keynote lecture - Naoki Masuda: A Gillespie algorithm for simulating interacting non-Markovian point processes

17:00 Closing remarks