

SpaSWiN 2011 Workshop

7th Workshop on Spatial Stochastic Models for Wireless Networks

Hyatt Regency Hotel, Princeton, New Jersey

May 9, 2011

Held in conjunction with WiOpt 2011

Organizing Committee

General Chairs

Nihar Jindal (*U Minnesota*)

Olivier Leveque (*EPF Lausanne*)

Technical Program Committee

Francois Baccelli (*INRIA/ENS, Paris*)

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Armand Makowski (*ISR/U Maryland*)

Ayfer Ozgur (*EPF Lausanne*)

Guodong Pang (*Penn State U*)

Patrick Thiran (*EPF Lausanne*)

Milan Vojnovic (*Microsoft Research*)

Important Dates

February 5, 2011: Paper submission

March 10, 2011: Decision notification

March 28, 2011: Camera ready deadline

Keynote Speaker

Jeff Andrews (*U Texas, Austin*)

Invited Speakers

Bartek Blaszczyszyn (*INRIA/ENS, Paris*)

Sae-Young Chung (*KAIST, Seoul*)

Massimo Franceschetti (*UC San Diego*)

Urs Niesen (*Bell Labs, NJ*)

Xinzhou Wu (*Qualcomm, NJ*)

Conference Website

<http://www.spaswin.org>

SpaSWiN 2011

The performance of wireless networks depends critically on the spatial configuration of the transmitters, receivers and relaying nodes. As a result, the modeling of such networks requires methods and tools from point process theory, stochastic geometry and random graph theory. The art of modeling wireless networks is strongly multi-disciplinary, combining these spatial, stochastic tools with information and communication theory, networking theory, combinatorics, and game theory.

SpaSWiN is the first workshop specifically devoted to the use of spatial stochastic models for improved design of wireless networks. Building on the success of the six previous venues of the workshop: in Riva del Garda (2005), Boston (2006), Limassol (2007), Berlin (2008), Seoul (2009), and Avignon (2010), the goal of SpaSWiN 2011 is to bring together researchers from the various disciplines involved in spatial models of wireless communications. Please join us in Princeton, New Jersey on May 9, 2011.

Call for Papers

The technical program committee is soliciting contributions that employ spatial stochastic models – including, but not limited to, point processes, stochastic geometry, discrete and continuum percolation, and random graphs -- to design and analyze wireless networks. All aspects and technologies of wireless networking will be considered, including (but not limited to): *ad hoc*, cellular, mesh, sensor, mobile, hybrid, and two-tier networks; models for coverage, connectivity, capacity, delay, energy efficiency; distributed routing and scheduling protocols and algorithms; network information theory; power and topology control; mobility models.

Authors are invited to submit titles and extended abstracts. Submitted manuscripts should not exceed 6 pages in length, including figures, appendix and bibliography. Abstracts should be formatted in two columns with a point size greater or equal to 10pt. Submissions will be done electronically in Adobe PDF format. Accepted abstracts will be published in (post)-workshop materials, with the copyright left to the authors. Authors will be offered the possibility to have their 6-page abstracts listed in the IEEEExplore as well as in the IEEE digital library, with IEEE publication status.