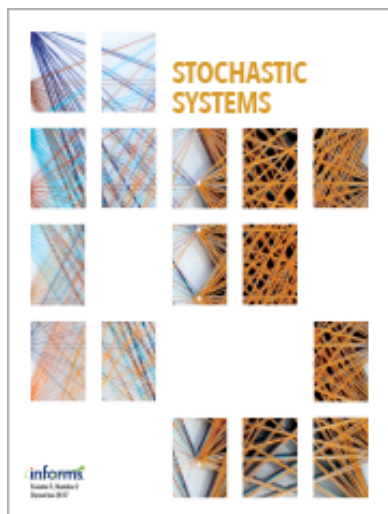




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Introduction to the Applied Probability Society's “Open Problems in Applied Probability” Session at the INFORMS Annual Meeting, Phoenix, Arizona, November 4–7, 2018

Guest Editors: Rami Atar, Harsha Honappa

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Special Section: Open Problems in Applied Probability

Introduction to the Applied Probability Society's "Open Problems in Applied Probability" Session at the INFORMS Annual Meeting, Phoenix, Arizona, November 4–7, 2018

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Abstract. This Special Section of *Stochastic Systems* includes a number of open problems that were presented at a session organized by the Applied Probability Society during the INFORMS Annual Meeting held in Phoenix, Arizona, November 4–7, 2018, on topics of current interest in applied probability.



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Keywords: stochastic networks • control • optimization

An open problems session on topics of current interest in applied probability at the 2018 INFORMS Annual Meeting in Phoenix, Arizona, was organized as part of the Applied Probability Society's (APS') sponsored cluster. The session featured 10 talks on a range of topics highly relevant to the APS and the wider operations research community.

These talks are summarized in the papers that follow, with brief descriptions of the problems as set out by the speakers. The problems are presented in order of the first author's last name. To aid the reader, we also classify the problems as follows:

- Stochastic Networks—Performance Analysis Problems (Groszof 2019, Kruk 2019, Scully 2019, Wu, 2019);
- Stochastic Networks—Control and Scheduling Problems (Down, 2019; Lipshutz, 2019; Ward, 2019); and
- Stochastic Control, Optimization and Approximation—Problems (Arapostathis 2019, Jalilzadeh et al. 2019, Pasupathy et al. 2019).

The organizers wish to thank the presenters for contributing their talks and the problem descriptions included in this note. The organizers also thank the editorial team at *Stochastic Systems* for suggesting that these discussions be published.

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