

Probability in the Engineering and Informational Sciences

Editor: SHELDON M ROSS, *Professor of Industrial Engineering and Operations Research, University of California, Berkeley*

Background

Recent years have seen a vast increase in research on the application of probability to a variety of fields in the physical, engineering, biological, behavioural, economic and management sciences. Stochastic modelling has been part of the biosciences accepted methodology for many years, but physical scientists and engineers have been much more reluctant to admit the possibility of randomness in their disciplines. However, as systems of such complexity have developed in, for example, computer science and telecommunications that purely deterministic analyses are no longer feasible, there has been a related growth in research on stochastic models in the physical and engineering sciences. **Probability in the Engineering and Information Sciences** has developed to fill the gap in the existing literature by publishing original research in this subject area.

Aims and Scope

PEIS is a wide ranging quarterly journal focusing on the many uses of probability. The primary focus of the journal is on stochastic modelling in the physical and engineering sciences, with particular emphasis on queueing theory, reliability theory, inventory theory, simulations, stochastic control theory and probabilistic networks and graphs; but papers on analytic properties and related disciplines are also published, as well as more general papers on applied and computational probability, if appropriate.

Recent Articles include...

Reliabilities of Double-Loop Networks
F. K. Hwang and Wen-Ching Winnie Li

Chi-Square Goodness of Fit: A Failure Rate Perspective

Mark Brown and Marcia H. Flicker

A Simple Numerical Approach for Infinite-State Markov Chains

Henk C. Tijms and Michel C. T. Van de Coevering

Stochastically Minimizing Total Delay of Jobs Subject to Random Deadlines

Susan H. Xu

Renewal Networks: Connectivity and Reachability on a Time Interval

Charles J. Colbourn and Michael V. Lomonosov

On the Optimality of Trunk Reservation in Overflow Processes

Vien Nguyen

Subscriptions

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Combinatorics, Probability & Computing

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