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CONTRIBUTORS

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Saul Blumenthal is Professor of Statistics at Ohio State University. This is the latest in a sequence exploring superimposed renewal processes and series system reliability. Previous papers examined asymptotic theory (with increasing system size) and its applications, while this one tackles the combinatorial problems associated with exact distributions. The new approximations were a by-product of looking for feasible computing forms for the exact expressions.

Yves Dallery is Associate Professor of Manufacturing Engineering at Boston University. **Yannick Frein** is *Maitre de Conférences* at the *Université Joseph Fourier de Grenoble* and is a researcher at the *Laboratoire d'Automatique de Grenoble*. Their research interests are in queueing networks and modeling and analysis of manufacturing systems. This work is part of a research project on queueing networks with blocking.

Bruce Faaland is Professor and Chair of the Management Science Department and Burlington Northern/Burlington Resources Professor in Manufacturing Management; **Tom Schmitt** is Associate Professor of Operations Management, both at the University of Washington School of Business. Schmitt's experience as production and inventory control manager for G. A. Gray, a division of Warner and Swasey (a manufacturer of machine tools), convinced him of the importance of accurate, attainable work schedules in a manufacturing setting. He returned to graduate school at Indiana University with the intention of doing his doctoral work in this area, and in 1983, he and Faaland began to work together on detailed scheduling. The authors are pursuing closely related research on sequencing, lot sizing and maximal flow algorithms.

Lori S. Franz is Professor of Management at the College of Business and Public Administration at the University of Missouri-Columbia. Her research focuses on the development of decision support systems and user-friendly mathematical programming models for improved organizational decision making. **Janis L. Miller** is Assistant Professor of Management in the Department of Management at the College of Commerce and Industry at Clemson University. She

is the Director of the Small Business Institute and conducts research in the area of applied mathematical programming.

Yannick Frein, see **Yves Dallery**.

Peter W. Glynn is Associate Professor of Operations Research at Stanford University. **Benjamin Melamed** is Head of the Performance Analysis Department at the C&C Research Laboratories, NEC USA Inc. in Princeton, N.J. **Ward Whitt** is a member of the technical staff in the Mathematical Sciences Research Center of AT&T Bell Laboratories in Murray Hill, N.J. This work is a natural sequel to Melamed and Whitt's paper, "On Arrivals That See Time Averages," which was published in *Operations Research* in 1990. Their paper was largely motivated by David Yao's paper, "On Wolff's PASTA Martingale," which was published in 1992 (*Opns. Res.* **40**, S352-S355).

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David V. Kalbaugh is Supervisor of the Missile and Air Systems Branch within the Fleet Systems Department at the Johns Hopkins University Applied Physics Laboratory. The author has often dealt with search among false contacts as part of his work in the research and development of systems for strike warfare, especially cruise missiles.

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Soren Nielsen is Assistant Professor at the University of Texas at Austin. The paper in this issue is part of the author's dissertation on the design of massively parallel algorithms for network optimization problems. This paper is one in a series he coauthored with Stavros Zenios on algorithms, data structures, and applications of massively parallel computers.

James B. Orlin is Professor of Operations Research at the MIT Sloan School of Management. He has developed (often with Ravi Ahuja and Robert Targan) faster algorithms for a number of problems including the shortest path problem, the maximum flow problem, and the minimum cost flow problem. With Ravindra Ahuja and Thomas Magnanti, he coauthored a textbook titled, *Network Flows: Theory, Algorithms, and Applications* (Prentice-Hall, 1993).

Krzysztof Pieńkosz is Assistant Professor at the Institute of Automatic Control of the Warsaw University of Technology. The paper is based on his doctoral dissertation written under the direction of Professor Eugeniusz Toczyłowski. The author's research includes production planning in manufacturing systems.

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James E. Smith is Assistant Professor of Decision Sciences at the Fuqua School of Business at Duke University. **Samuel Holtzman** and **James E. Matheson** are Principal and Director, respectively, at Strategic Decisions Group, a decision consulting firm in Menlo Park, California, and are consulting professors in the Engineering-Economic Systems department at Stanford University. The influence diagram representation described in this paper was developed as part of an effort to develop computer tools for

aiding and automating decision analysis that was begun while the first author was at Strategic Decisions Group from 1986–1988. These tools became part of R&D Decision Advisor®, an intelligent decision system that helps R&D managers evaluate their research project portfolios.

Jing-Sheng Song is Assistant Professor of Management at the Graduate School of Management, University of California, Irvine. She received a B.S. from Beijing Normal University, an M.S. from the Chinese Academy of Sciences, and a Ph.D. from Columbia University. Her current research is directed toward understanding lead times—what determines them and how they affect system performance. She is now advising a major distributor of automotive engines on logistics issues.

Eugeniusz Toczyłowski is a professor on the Faculty of Electronics at the Warsaw University of Technology. His research includes development of structural optimization approaches to approximate solutions of various complex OR problems with application to scheduling and planning in flexible and computer-integrated manufacturing, management of university activities, and modeling of computer and communication networks.

James C. Vertrees is President and Senior Fellow at SOLON Consulting Ltd., and Duke University Center for Demographic Studies. He is nationally known for his expertise in health care financing, program evaluation, and data base analysis. While at the Health Care Financing Administration, he served as co-investigator for a team of analysts that designed the Medicare Prospective Payment System for hospital payment. He is author of the Report to Congress on Prospective Payment, and is currently directing a project to make state-of-the-art health forecasting methods and data sets available to the private sector.

Ward Whitt, see **Peter W. Glynn**.

Max A. Woodbury is Professor Emeritus of Biomathematics and Computer Science at Duke University. His current research focuses on the development of fuzzy set models for describing complex biological systems, especially those of aging or senescent organisms. He has an interest in the estimation of multivariate stochastic processes applied to biological and health care systems and in devising optimal control strategies for those systems. He has worked on combining fuzzy set concepts with multivariate diffusion

processes because of desirable metric properties of the fuzzy set space.

Stavros A. Zenios is Associate Professor at the Wharton School of the University of Pennsylvania. He is the principal investigator with the HERMES Lab for Financial Modeling and Simulation that studies the development of novel modeling and computing

techniques for financial applications. The paper in this issue was motivated by the applications of stochastic programming to portfolio management, and from his consulting experience with Thinking Machines Corporation.

Paul Zipkin is the Armand G. Erpf Professor of Business at Columbia University.