

Publications of the Research Group since 1991 supported by OTKA-1648/91

Books

Dr. J. Sztrik

1. How to get easier with computer science
Studium Press, Nyíregyháza, Hungary (1991, 1992)
Second author : R. Rigó
2. How to pronounce
Codex-3V Press, Debrecen, Hungary (1994)
Second author : R. Rigó

Lecture Notes

Dr. J. Sztrik

1. Probability Theory and Mathematical Statistics; A Collections of Exercises
University of Debrecen, Hungary (1989, 1992)
First author : M. Nagy
2. Numerical Analysis; A Collection of Exercises
University of Debrecen, Hungary (1990, 1992)
First author : M. Lénárd
3. Elements of Operational Research
University of Debrecen, Hungary (1992)
First author : B. Glevitzky
4. Foundations of Information Science; A Collections of Exercises
University of Debrecen, Hungary (1993)
Co-authors : B. Almási, G. Fazekas, A. Kuki
5. An Introduction to Queueing Theory and its Applications
University of Debrecen, Hungary (1994)

Papers

B. Almási

1. A Queueing Model for a Processor-shared Multi-terminal System subject to Breakdowns
Acta Cybernetica 4(1993) 273-282
2. A queueing model for a non-homogeneous terminal system subject to breakdowns
Computers and Maths. Applications 25 (1993) 105-111
Second author : J. Sztrik

Dr. J. Sztrik

1. A heterogeneous SCAN service polling model with single-message buffer
Proc. IFIP WG 7.3, Kyoto, Japan (1991) 99-111
First author : B.D. Bunday
2. Asymptotic analysis of complex standby systems with fast repair
Theory of Probab. Math. Statist. 44 (1991) 132-135
3. Asymptotic analysis of a heterogeneous finite-source communication system with ...
Bulletins for Applied Mathematics 744/91 (1991) 103-135
4. Asymptotic analysis of a heterogeneous multiprocessor system in a randomly changing ...
IEEE Trans. Soft. Eng. 17 (1991) 1069-1075
Second author : D. Kouvatsos
5. Modelling of a communication system evolving in a random environment
Acta Cybernetica 10 (1991) 85-91
Second author : L. Lukashuk
6. Modelling of heterogeneous multiprocessor systems with randomly changing parameters
Acta Cybernetica 10 (1991) 71-84
7. An asymptotic approach to the multiple machine interference problem with Markovian environments
Publicationes Mathematicae 41 (1992) 325-339
Second author : B.D. Bunday
8. An asymptotic approach to the machine interference problem with Markovian environments
Annales Univ. Sci. Budapest, Sec. Comp. 13 (1992) 135-148
Second author : B.D. Bunday
9. Asymptotic analysis of a heterogeneous renewable complex system with random environments
Microelectronics and Reliability 32 (1992) 975-986
10. Asymptotic analysis of the reliability of a complex standby system with fast repair
Theory of Probab. and its Appl. 37 (1992) 132-135
11. Asymptotic analysis of a multiple server queueing system operating in a Markovian environment
Computational and Applied Mathematics 76 (1992) 91-98
First author : L.I. Lukashuk
Second author : Ju. A. Semenchenko
12. Modelling of a single bus multiprocessor system operating in Markovian environments
Computers and Maths. Applications 23 (1992) 57-67
13. The maintenance of bi-directionally patrolled machines
I.M.A. Journ. Maths. Appl. in Business 3 (1992) 377-386
First author : B.D. Bunday
14. A queueing model for a non-homogeneous terminal system subject to breakdowns
Computers and Maths. Applications 25 (1993) 105-111
First author : B. Almási

15. Asymptotic analysis of the heterogeneous machine interference problem with random environments
Applied Mathematical Modelling 17 (1993) 105-110
 Second author : B.D. Bunday
16. Asymptotic analysis of a heterogeneous finite-source communication system operating in random environments
Publicationes Mathematicae 42 (1993) 225-238
17. Limit theorems for dependent summation schemes
Random Operators and Stochastic Equations 1 (1993) 29-36
 First author : A.I. Chernyak
18. Machine interference problem with a random environment
European Journ. Oper. Res. 65 (1993) 259-269
 Second author : B.D. Bunday
19. Modelling of a multiprocessor system in a randomly changing environment
Performance Evaluation 17 (1993) 1-11
20. On a closed communication system with fast sources and operating in Markovian environments
J. Inform. Process. Cybernet. EIK 29 (1993) 241-246
 Second author : R. Rigó
21. Performance Modelling of a Heterogeneous Multiprocessor System in a Randomly Changing Environments
Proceedings of Performance'93 (1993) 390-394
 Second author : D. Kouvatsos
22. Simulation of Rare Queueing Events by Switching Arrival and Service Rates
Proceedings of the 1993 Winter Simulation Conference 317-322
 First author : Cheng R.
23. Bounds on the Effects of Correlation in a Stable MMPP/MMPP/1/N Queue
Proceedings of Second Workshop on Performance Modelling and Evaluation of ATM Networks, Chapman and Halls (in Press)
 (with Kouvatsos D.D. and Fretwell R.)

Research Reports

B. Almási

1. A queueing model for a non-homogeneous terminal system subject to breakdowns
Universitas Debrecen No. 92/37, Hungary (1992)
 Second author : J. Sztrik
2. A queueing model for a processor-shared mult-terminal system subject to breakdown
Universitas Debrecen No. 92/65, Hungary (1992)

Dr. I. Fazekas

1. Hellinger Transform of Gaussian autoregressive processes
Universitas Debrecen No. 92/82, Hungary (1992)

Dr. J. Kormos

1. On estimations for nearly nonstationary AR-process
Univ. Nijmegen No. 9218, The Netherlands (1992)
Co-authors: K. Dzaparidze , T. van der Meer, M. Zuijlen

Dr. J. Sztrik

1. Asymptotic analysis of a heterogeneous renewable complex system with random environments
SOR 91-41, **Univ. Bradford**, England (1991)
2. Asymptotic analysis of the heterogeneous machine interference problem with random environments
SOR 91-42, **Univ. Bradford**, England (1991)
Second author : B.D. Bunday
3. Modelling of a multiprocessor system in a randomly changing environment
Universitas Debrecen No. 91/09, Hungary (1991)
4. The GE-Type Building Block for General Queueing Networks with Blocking Before or After Service
CS 23-91, **Univ. Bradford**, England (1991)
First author : D.D. Kouvatsos
5. A queueing model for a non-homogeneous terminal system subject to breakdowns
Universitas Debrecen No. 92/37, Hungary (1992)
First author : B. Almási
6. Asymptotic analysis of a renewable complex system with Erlangian repair times
Universitas Debrecen No. 92/38, Hungary (1992)
Second author : R. Cheng
7. Asymptotic analysis of a heterogeneous finite-source communication system operating in random environments
Universitas Debrecen No. 92/64, Hungary (1992)
8. Queueing model for a heterogeneous multiprocessor system with randomly changing parameters
Universitas Debrecen No. 92/63, Hungary (1992)
9. Queueing model for a Markov-modulated heterogeneous multiprocessor system
Int. Bericht, 2/93, **Univ. Erlangen**, Germany (1993)
Second author : G. Bolch
10. Stochastic Modelling of Information and Computer Systems
Universitas Debrecen No. 93/89, Hungary (1993)

Conferences

B. Almási

1. Statistical Methods in Network and Software Analysis
NJSZT V. kong. Debrecen, 1992, Vol. II. 2-12
Second author : A. Kuki
1. Comparing two queueing models for non-homogeneous non-reliable terminal systems
XVIth seminar on Stability Problems of Stochastic Models, pp. 13.
Eger, Hungary (1994)

A. Kuki

1. Statistical Methods in Network and Software Analysis
NJSZT V. kong. Debrecen, 1992, Vol. II. 2-12
Second author : B. Almási
2. On latest developments in software reliability
Informatics in Higher Education (1993), Debrecen, 886-892
3. On latest field of Software Reliability
Conference on Applied Informatics (1993), Eger, Hungary
4. Statistical Models in Software Reliability
XVIth seminar on Stability Problems of Stochastic Models, pp. 37.
Eger, Hungary (1994)

Dr. J. Sztrik

1. Asymptotic approach to the multiple machine interference problem with Markovian environment
Stochastic Processes and their Applications (1993), Amsterdam, The Netherlands
2. On finite-source queueing models and their applications
Modelling and Computational Aspects (1993) 2, University of Tilburg, The Netherlands
3. Stochastic Modelling of Information and Computer Systems
Informatics in Higher Education (1993) 418-427, Debrecen, Hungary
4. Approximate Analysis of Multiprocessor Systems with Randomly Changing Parameters
IFIP WG 7.3 Workshop at Performance'93 (1993) 17, Roma, Italy
5. Asymptotic Analysis of a Finite Buffer Queue in a Randomly Changing Environment
IFIP TC6 Working Group 6.4 and TC6 Task Force on Performance of Computer Networks, University of Bradford, 1994.
(with Kouvatso D.D. and Fretwell R.)

Seminars

Dr. J. Sztrik

1. On asymptotic methods in computer performance evaluation and reliability theory
Erlangen, Hamburg (1992)
2. On finite-source queueing models and their applications
Aachen, Munich, Erlangen, Dortmund, Hagen (1993)