INDEPENDENT CITATIONS

to the works of Dr. J. Sztrik

23 January, 2016

1. Multiprogramming with heterogeneous jobs
   Tomkó J. :
   Semi-Markov analysis of the inhomogeneous machine interference model
   Lecture Notes in Control and Information Sciences 84 (1986) 992-1001

2. On the machine interference problem
   Publicationes Mathematicae 30 (1983) 165 - 175
   Alazemi H.M.K., Margolis A., Choi J., Vijayakumar R., Roy S. :
   Analysis of 802.11 DCF with Heterogeneous Non-Saturated Nodes
   Alazemi H.M.K., Margolis A., Choi J., Vijayakumar R., Roy S. :
   Stochastic modeling and analysis of 802.11 DCF with heterogeneous non-saturated nodes
   Computer Communications 30 (2007) 3652-3661
   Babitskii A.V., Dudin V.I., Klimenok V.I. :
   On calculation of the characteristics of unreliable queueing systems with finite source
   Automation and Remote Control 57 (1996) 75-84
   Huang K.P.:
   Scheduling the extended machine interference problem
   PhD Dissertation, Texas Technical University (1993)
   Ishigaki M., Takagi H., Takahashi Y., Hasewaga T. :
   Throughput and Fairness Analysis of Prioritized Multiprocessor Bus Arbitration Protocols
   TR 0051 08/17/90, IBM Tokyo (1990)
   Ishigaki M., Takagi H., Takahashi Y., Hasewaga T. :
   Throughput and Fairness Analysis of Prioritized Multiprocessor Bus Arbitration Protocols
   Proceedings of Symposium on Shared ... (1991) 166-174
   Jayaraman R., Matis T. :
   Finite population models – Single station queues
   Rahmoune F., Aissani D. :
   Approximation dans les systemes reparables de fiabilite avec maintenance preventive
   Takagi H. :
   Queueing Analysis of Vacation Models
   Takagi H. :
   Analysis of an M/G/1//N Queue with Server's Multiple Vacations
   Proceedings of TIMS, Osaka (1989)
Takagi H. :
Analysis of an M/G/1//N Queue with Server's Multiple Vacations
TR 0033 01/18/90, IBM Tokyo  (1990)

Takagi H. :
Analysis of an M/G/1//N queue with multiple server vacations, and its application to a polling model

Takagi H. :
Queueing Analysis; A Foundation of Performance Evaluation, Vol. 2., Finite Systems
North-Holland, Amsterdam  (1993)

Takagi H. :
M/G/1//N queues with vacations and exhaustive service
Oper. Res. 42  (1994) 926-939

Takine T., Takagi H., Takahashi Y., Hasewaga T. :
Analysis of Asymmetric Single-Buffer Polling and Priority Systems
TR87-0044 7/01/88, IBM Tokyo  (1988)

Takine T., Takagi H., Takahashi Y., Hasewaga T. :
Analysis of Asymmetric Single-Buffer Polling and Priority System
Performance Evaluation 11  (1990) 253-264

Takine T., Hasewaga T. :
A cyclic-service finite source model with round-robin scheduling
Queueing Systems II (1992) 91-108

3. Probability model for non-homogeneous multiprogramming computer systems
Acta Cybernetica 6 (1983) 93-101

Bunday B., Khorram E. :
The finite source queueing model for multiprogrammed computer system with different CPU times

Bunday B., Khorram E. :
The finite source queueing model for multiprogrammed computer systems with different CPU times
Acta Cybernetica 8 (1988) 353-359

Bunday B., Khorram E. :
The efficiency of two groups of machines cared for by r operatives

Bunday B., Bokhari H.M., Khorram E. :
The efficiency of two groups of heterogeneous stations cared for by r operatives with a priority group
Applied Mathematical Modelling 21 (1997) 42-47

Ishigaki M., Takagi H., Takahashi Y., Hasewaga T. :
Throughput and Fairness Analysis of Prioritized Multiprocessor Bus Arbitration Protocols
IBM Research TR 0051, Tokyo  (1990)

Ishigaki M., Takagi H., Takahashi Y., Hasewaga T. :
Throughput and Fairness Analysis of Prioritized Multiprocessor Bus Arbitration Protocols
Proceedings of Symposium on Shared (1991) 166-174

Jayaraman R., Matis T. :
Finite population models – Single station queues
Khorram E.:
Some developments in the machine interference problem

Takagi H.:
Queueing Analysis of Vacation Models

Takagi H.:
Queueing Analysis; A Foundation of Performance Evaluation, Vol. 2. Finite Systems
North-Holland, Amsterdam (1993)

Takagi H.:
M/G/1/N queues with vacations and exhaustive service
Oper. Res. 42 (1994) 926-939

Takine T., Takagi H., Takahashi Y., Hasewaga T.:

4. A queueing model for multiprogrammed computer systems with different I/O times

Almási B.:
Comparing Two Queueing Models for Non-homogeneous Non-reliable Terminal Systems
Journal of Mathematical Sciences 76 (1995) 2222-2227

Bunday B., Khorram E.:
The G/M/r heterogeneous machine interference problem

Bunday B., Khorram E.:
The finite source queueing model for multiprogrammed computer systems
Acta Cybernetica 8 (1988) 353-359

Bunday B., Khorram E.:
The efficiency of two groups of machines cared for by r operatives

Bunday B., Bokhari H.M., Khorram E.:
The efficiency of two groups of heterogeneous stations cared for by r operatives with a priority group
Applied Mathematical Modelling 21 (1997) 42-47

Jayaraman R., Matis T.:
Finite population models – Single station queues

Khorram E.:
Some developments in the machine interference problem

Takagi H.:
Queueing Analysis of Vacation Models
5. On the finite-source G/M/r queues


Agnihothri S.R. :
Interrelationship between performance measures for the machine-repairman problem
Naval Res. Logistics 36 (1990) 265-271

Alazemi H.M.K., Margolis A., Choi J., Vijayakumar R., Roy S. :
Analysis of 802.11 DCF with Heterogeneous Non-Saturated Nodes

Alazemi H.M.K., Margolis A., Choi J., Vijayakumar R., Roy S. :
Stochastic modeling and analysis of 802.11 DCF with heterogeneous non-saturated nodes
Computer Communications 30 (2007) 3652-3661

Biagini G., Goldfeder M.E. :
A note on "A closed form solution for the G/M/r machine interference model"

Bunday B., Khorram E. :
The efficiency of bi-directionally patrolled Machines

Bunday B., Khorram E. :
The G/M/r heterogeneous machine interference problem

Bunday B., Khorram E. :
A closed form solution for the G/M/r machine interference problem

Bunday B., Khorram E. :
The finite source queueing model for multiprogrammed computer systems
Acta Cybernetica 8 (1988) 353-359

Bunday B., Khorram E. :
The efficiency of two groups of machines cared for by r operatives

Bunday B., Bokhari H.M., Khorram E. :
The efficiency of two groups of heterogeneous stations cared for by r operatives with a priority group
Applied Mathematical Modelling 21 (1997) 42-47

Carmichael D.G. :
On the equivalence of the (Eh/M/c) and (M/M/r) finite-source queues
Civil Engineering Systems 4 (1987) 87-93

Dshalalow J.H.:
Frontiers in Queueing, Models and Applications in Science and Engineering
CRC Press, Boca Raton, 1997, 114

Hague L., Armstrong M.J.:
A survey of the machine interference problem
European Journ. of Operational Research 179 (2007) 469-482

Huang K.P.:
Scheduling the extended machine interference problem
PhD Dissertation, Texas Technical University (1993)
Jayaraman R., Matis T.:
Finite population models – Single station queues

Khorram E.:
Some developments in the machine interference problem

Kimura T.:
Duality between the M/G/S/S and GI/M/1/S/S queues

Kokolaki E., Karaliopoulos M., Stavrakakis I.:
Opportunistically assisted parking service discovery: Now it helps, now it does not
Pervasive and Mobile Computing (2011) doi:10.1016/j.pmcj.2011.06.003

Kokolaki E., Karaliopoulos M., Stavrakakis I.:
Value of information exposed: Wireless networking solution to the parking search problem
Proceedings of the 8th International Conference on Wireless on-Demand Network System and Services
WONS 2011 (2011) 187-194

Lee H.W., Yoon S.H., Lee S.S.:
Continuous Approximation of the Machine Repair System

Melachrinoudis E.:
A Discrete Location Assignment Problem with Congestion
IIE Transaction 26 (1994) 83-86

Sivazlian B.D., Wang K.H.:
Diffusion Approximation to the G/G/R Machine Repair Problem with warm standby spares
Naval Research Logistics 37 (1990) 753-772

Takagi H.:
Queueing Analysis of Vacation Models

Thomadakis M.:
The busy period of the GI/M/1 queueing systems
Research Paper of Department of Computer Science, Texas A&M University (1994)

Wang K.H., Sivazlian B.D.:
Comparative analysis for the G/G/R machine repair problem
Computers and Ind. Engineering 18 (1990) 511-520

Wang K.H., Liao C.W., Yen T.C.:
Cost analysis of the M/M/R machine repair problem with second optional repair
Journal of Industrial and Management Optimization 6 (2010) 197-207

6. On the n/G/M/1 queue and Erlang's loss formulas
Serdica 12 (1986) 321-331

Takagi H.:
Queueing Analysis of Vacation Models
7. A probability model for a priority processor-shared multiprogrammed computer systems
   *Acta Cybernetica* 7 (1986) 329-340

   Almási B.:
   A Queueing Model for a Processor-Shared Multi-Terminal System Subject to Breakdowns
   *Acta Cybernetica* 10 (1992) 273-282

   Almási B.:
   A Queueing Model for a Non-homogeneous Polling System Subject to Breakdowns

   Begain K., Bolch G., Herold H.:
   Practical Performance Modeling
   Kluwer Academic Publisher, Boston, 2000, 355-361

8. On the heterogeneous M/G/n blocking system in Markovian environment

   Dudin A.N. :
   Analysis of probability characteristics of M/G/1 systems operating in a random environment
   *Communications of Fifth International Vilnius Conference* (1989) T. III

   Dudin A.N., Klimenok V.I.
   Queueing Systems with Passive Servers

   Economou Antonis :
   A characterization of product-form stationary distributions for queueing systems in random environment
   *International Journal of Simulation* 4 (2003) No. 5-6, 4-11

   Economou Antonis :
   A characterization of product-form stationary distributions for queueing systems in random environment

   Economou Antonis :
   Generalized product-form stationary distributions for Markov chains in random environment with queueing applications
   *Advances in Applied Probability* 37 (2005) 185-221

   Fakinos D. :
   Insensitivity of generalized semi-Markov processes evolving in a random environment

   Falin G. :
   A Heterogeneous Blocking System in a Random Environment

   Kim C., Dudin A., Klimenok V., Khramova V. :
   Erlang loss queueing system with batch arrivals operating in a random environment

   Lippolt C., Arnold D., Dorrsam V. :
   Analysis of a single stage production system with heterogeneous machines
   *OR Spectrum* 25 (2003) 97-107
9. Reliability of heterogeneous stand-by systems in Markovian environment


Vanderperre E.J.:  
Reliability analysis of a warm standby system with general distributions  
Microelectronics and Reliability 3 (1990) 489-490

10. On the heterogeneous machine interference with limited server’s availability

Co-author: A. Pósafalvi

Almási B.:  
A Queueing Model for a Processor-Shared Multi-Terminal System Subject to Breakdowns  
Acta Cybernetica 10 (1992) 273-282

Almási B.:  
A Queueing Model for a Non-homogeneous Polling System Subject to Breakdowns  

Huang K.P.:  
Scheduling the extended machine interference problem  
PhD Dissertation, Texas Technical University (1993)

Ilkhef L., Lekadir O., Aissani D.:  
MRSPN analysis of Semi-Markovian finite source retrial queues  

Jain M., Shekhar C., Shukla S.:  
Markov model for switching failure of warm spares in machine repair system  
Journal of Reliability and Statistical Studies 7 (2014) 57-68

Jiang X.:  
Simulation Model on the Maintenance of Mining Equipment  

Younis M., Hamed A. F:  
A stochastic approach to machine interference problems in robot-served manufacturing systems  

Wartenhorst P.:  
N-parallel queuing-systems with server breakdown and repair  

11. On the (m,n)/M/M/1 priority queues and their applications

Problems of Control and Inf. Theory 16 (1987) 169-189

Yashkov S.F.:  
Mathematical problems in the theory of shared-processor systems  

12. A finite-source queueing model for some manufacturing processes

Problems of Control and Inf. Theory 16 (1987) 449-457

Jayaraman R., Matis T.:  
Finite population models – Single station queues  
13. On the G/M/r/FIFO machine interference model with state-dependent speeds

Amstrong M.J.:
Age repair policies for machine repair problem

Gheorghe A.:
Decision processes in dynamic probabilistic systems
Kluwer Academic Publisher (1990) 349-

Hague L., Amstrong M.J.:
A survey of the machine interference problem

Subba Rao S. et al.:
Waiting Line Model Applications in Manufacturing

14. Some contribution to the machine interference problem with heterogeneous machines

Hertel G.:
Invariance, parameter estimations, sensitivity analysis and other help functions in computer-aided-design by GI/GI/c-queuing models
Lecture notes in control and information sciences 143 (1990) 629-641

Jayaraman R., Matis T.:
Finite population models – Single station queues

15. Investigation of stationary characteristics of controlled system G/M/r with finite source
Serdica 14 (1988) 179-184

Jayaraman R., Matis T.:
Finite population models – Single station queues

16. A numerical approach to the repairman problem with two different types of machines
Co-author: A. Pósa falvi

Hague L., Armstrong M.J.:
A survey of the machine interference problem

Hsieh Y.C.:
Optimal assignment problem of priorities for the machine interference problems
Microelectronics and Reliability 37 (1996) 635-640

Huang K.P.:
Scheduling the extended machine interference problem
PhD Dissertation, Texas Technical University (1993)
Kerkhove L., Vanhoucke M.:  
Scheduling of unrelated parallel machines with limited server availability on multiple production locations:  
a case study in knitted fabrics  

Sharma D.C.:  
Non-perfect M/M/R Machine repair problem with spares and two modes of failure  

Takine T., Hasewaga T.:  
A cyclic-service finite source model with round-robin scheduling  
Queueing Systems 11  (1992) 91-108  

Wang K.H.:  
Profit analysis of the machine repair problem with cold standbys and 2 modes of failure  
Microelectronics and Reliability  34  (1994) 1635-1640  

Wang K.H., Wu J.D.:  
Cost-analysis of the M/M/r machine repair problem with spares and 2 modes of failure  

17. On the heterogeneous machine interference with priority and ordinary machines  
Co-author : A. Pósafalvi  

Ausin M.:  
Queues in Reliability  

Chen S. P.:  
Non-linear programming for the optimization of machine repair problems in fuzzy environments  

Chen S. P.:  
A mathematical programming approach to the machine repair problems with fuzzy parameters  

Gössinger R., Kaluzny M.:  
Release of maintenance jobs in a decentralized multi-stage production/maintenance system with  
continuous condition monitoring  

Hague L., Armstrong M.J.:  
A survey of the machine interference problem  
European Jopurnal of Operational Reseach  179 (2007) 469-482  

Huang K.P.:  
Scheduling the extended machine interference problem  
PhD Dissertation, Texas Technical University  (1993)  

Jain M.:  
Transient analysis of machining systems with service interruption, mixed standbys and priority  

Jiang X.:  
Simulation Model on he Maintenance of Mining Equipment  
Yang T., Lee R.S., Chen M.C., Chen P.:  
Queueing network model for a single-operator machine interference problem with external operations  

Younis M., Hamed A. F.  
A stochastic approach to machine interference problems in robot-served manufacturing systems  

18. Asymptotic analysis of some complex renewable systems operating in random environments  
Co-author : V.V. Anisimov

Baum D., Kovalenko I.:  
Averaging properties of a $Cox/G/m/0$ loss system  

Cordeiro J.D.:  
Unreliable Retrial Queues in a Random Environment  
PhD Dissertation, Air Force Institute of Technology AFIT/DS/ENS/07-03 2007, Ohio, USA

Economou Antonis:  
Generalized product-form stationary distributions for Markov chains in random environment with queueing applications  
Advances in Applied Probability 37 (2005) 185-221

Kovalenko I.N.:  
Estimation of the intensity of flow of nonmonotone failures in $(La)/G/m$ queueing systems  
Ukrainian Mathematical Journal 52, No. 9 (2000) 1219-1226

Kovalenko I.N., Atkinson J.B., Mykhalevych K.V.:  
Three cases of light-traffic insensitivity of the loss probability in a GI/G/m/0 queueing system to the shape of the service time distribution  
Queueing Systems 45 (2003) 245-271

Vanderperre E. J.:  
On the reliability of a cold standby system attended by a single repairman  
Microelectronics and Reliability 35 (1995) 1511-1513

Vanderperre E. J.:  
Reliability analysis of a renewable multiple cold standby system  

Vanderperre E. J.:  
On the reliability of a renewable multiple cold standby system  

Vanderperre E. J., Makhanov S.S:  
Availability analysis of a repairable duplex system: a $z$-dependent Sokhotski-Plemelj problem  
TOP online (2013), DOI: 10.1007/s11750-013-0307-7

Vanderperre E. J., Makhanov S.S:  
Reliability of Birolini’s duplex system sustained by a cold standby unit and subjected to a priority rule  
TOP online (2014), DOI: 10.1007/s11750-014-0348-6
19. Asymptotic reliability analysis of some complex systems with repair operating in random environment


Kovalenko I.N.:
Rare events in queueing systems
Queueing Systems 16 (1994) 1-49

Kovalenko I.N., Kuznetsov N.Yu., Pegg P. A.:
Mathematical Theory of Reliability of Time Dependent Systems with Practical Applications
John Wiley & Sons, New York, 1997, 191

Kovalenko I.N.:
Estimation of the intensity of flow of nonmonotone failures in (La)/G/m queueing systems
Ukrainian Mathematical Journal 52, No. 9 (2000) 1219-1226

Nakayama M.:
Asymptotics of likelihood ratio derivative estimators in simulations highly reliable Markovian system
Management Science 41 (1995) 524-554

20. Reliability analysis of a complex renewable system operating in Markovian environments


Kovalenko I.N.:
Rare events in queueing systems
Queueing Systems 16 (1994) 1-49

Kovalenko I.N., Kuznetsov N.Yu., Pegg P. A.:
Mathematical Theory of Reliability of Time Dependent Systems with Practical Applications
John Wiley & Sons, New York, 1997, 191

Kovalenko I.N.:
Estimation of the intensity of flow of nonmonotone failures in (La)/G/m queueing systems
Ukrainian Mathematical Journal 52, No. 9 (2000) 1219-1226

Kovalenko I.N., Atkinson J.B., Mykhalevych K.V.:
Three cases of light-traffic insensitivity of the loss probability in a GI/G/m/0 queueing system to the shape of the service time distribution
Queueing Systems 45 (2003) 245-271

21. Asymptotic analysis of some controlled finite-source queueing systems

Co-author: V.V. Anisimov

Padmavathi I., Shohia Lawrence A., Sivakumar B.:
A finite-source inventory system with postponed demands and modified M vacation policy
OPSEARCH 2015, http://dx.doi.org/10.1007/s12597-015-0224-7

Kovalenko I.N.:
Estimation of the intensity of flow of nonmonotone failures in (La)/G/m queueing systems
Ukrainian Mathematical Journal 52, No. 9 (2000) 1219-1226

Kovalenko I.N., Atkinson J.B.:
Conditions for the light-traffic insensitivity of the loss probability in a GI/G/m/0 queueing system
Cybernetics and Systems Analysis No. 6 (2002) 64 - 73
Kovalenko I.N., Atkinson J.B., Mykhalevych K.V.:  
Three cases of light-traffic insensitivity of the loss probability in a GI/G/m/0 queueing system to the shape of the service time distribution  
Queueing Systems 45 (2003) 245-271

Nakayama M.:  
Asymptotics of likelihood ratio derivative estimators in simulations highly reliable Markovian system  
Management Science 41 (1995) 524-554

Zhang F., Wang J.:  
Performance analysis of the retrial queue with finite number of sources and service interruptions  

22. A recursive solution of a queueing model for a multi-terminal system subject to breakdowns  
Performance Evaluation 11 (1990) 1-7  
Co-author : T. Gál

Almási B.:  
A Queueing Model for a Processor-Shared Multi-Terminal System Subject to Breakdowns  
Acta Cybernetica 10 (1992) 273-282

Almási B.:  
Comparing Two Queueing Models for Non-homogeneous Non-reliable Terminal Systems  
Journal of Mathematical Sciences 76 (1995) 2222-2227

Almási B.:  
Response Time for Finite Heterogeneous Nonreliable Queueing Systems  

Almási B.:  
A Queueing Model for a Non-homogeneous Polling System Subject to Breakdowns  

Balcioglu B., Jagerman D.L., Altiok T.:  
Approximate mean waiting time in a GI/D/1 queue with autocorrelated times to failures  
IIE Transactions. 39 (2007) 985-996

Begain K, Bolch G., Herold H.:  
Practical Performance Modeling  
Kluwer Academic Publisher, Boston, 2000, 355-361

Bhargava C., Jain M.:  
Unreliable multiserver queueing system with modified vacation policy  

Crawford B.:  
Approximate Analysis of an Unreliable M/M/2 Retrial Queue  
Thesis, Air Force Institute of Technology AFIT/GOR/ENS/07-05 2007, Ohio, USA

Hassan N.A., Hoda Ibrahim S.S.:  
Analysis of Multi-Level Queueing Systems with Servers Breakdown by Using Recursive Solution Technique  

Jain M., Agrawal P.K.:  
M/E/1 Queueing System with Working Vacation  
Quality Technology and Quantitative Management 4 (2007) 455-470
Performance Metrics of Computer Intensive Applications of a Single Processor Computer System  
Fifth Asia Modelling Symposium (2011) 243-247, IEEE DOI 10.1109/AMS.2011.52

Performance of Heterogeneous Parallel Computer System with Distributed Memory Using Analytic and Simulation Techniques  
Third International Conference on Computational Intelligence, Communication Systems and Networks (2011) 126-131, IEEE DOI 10.1109/CICSyN.2011.37

Oguike O.E., Agu M.N., Echezona S.C.:  
Modeling variation of waiting time of distributed memory heterogeneous parallel computer system using recursive models  

Roszik J.:  
Homogeneous finite-source retrial queues with server and sources subject to breakdowns and repairs  

Roszik J.:  
Homogeneous finite-source retrial queues with server and sources subject to breakdowns and repairs  

Sabha P., Balcioglu B., Banjevic D.:  
Analysis of the Finite-source Multi-class Priority Queue with an Unreliable Server and Setup Time  
Technical Report MIE-OR-TR2010-02 University of Toronto, Canada, 2010

Sabha P., Balcioglu B., Banjevic D.:  
Analysis of the Finite-source Multi-class Priority Queue with an Unreliable Server and Setup Time  
Naval Research Logistic 60 (2013) 331-342

Sabha P., Balcioglu B., Banjevic D.:  
The impact of disruption characteristics on the performance of a server  
http://dx.doi.org/10.1007/s10479-015-2075-2

Sherman N.P.:  
Analysis and control of unreliable, single-server retrial queues with infinite-capacity orbit and normal queue  

Trivedi K., Malhotra M.:  
Reliability and Performability Techniques and Tools: A Survey  
Proceedings of 7th ITG/GI Conference, MMB, Aachen University of Technology, 27 - 48,1993

Wang K., Oh C., Ke J.:  
Cost analysis of the R-unreliable – unloader queueing system  

Wartenhorst P.:  
N-parallel queueing-systems with server breakdown and repair  
23. On the G/M/r/SIRO machine interference model with state-dependent speeds

Serdica 16 (1990) 210-216

Hague L., Armstrong M.J.:
A survey of the machine interference problem

24. A queueing model for a terminal system subject to breakdowns

Computers and Maths. Applications 19 (1990) 143-147
Co-author: T. Gál

Jain M., Agrawal P.K.:
M/E/1 Queueing System with Working Vacation
Quality Technology and Quantitative Management 4 (2007) 455-470

25. Asymptotic analysis of a heterogeneous multiprocessor system in a randomly changing parameters

Co-author: D. Kouvatsos

Anisimov V.V.:
Asymptotic Analysis of Hierarchic Stochastic Models of Switching Structure in Queueing Models

Anisimov V.V.:
Models of Asymptotic Merging in Non-homogeneous Markov Systems and Applications in Queueing Models

Anisimov V.V.:
Asymptotic Analysis of Stochastic Models of Hierarchic Structure and Application in Queueing Models
Advances in Matrix Geometric Methods for Stochastic Models

Anisimov V.V.:
Asymptotic Merging of States in Hierarchical Stochastic Models and Application in Queueing Networks

Anisimov V.V.:
Diffusion Approximation for Processes with Semi-Markov Switches and Applications in Queueing Models

Anisimov V.V.:
Asymptotic Analysis of Reliability for Switching Systems in Light and Heavy Traffic Conditions
Recent Advances in Reliability Theory: Methodology, Practice and Inference

Anisimov V.V.:
Limit Theorems for Switching Processes and Applications to Queueing Models
Electronic Modeling 23, No. 2(2001) 22-34
Anisimov V.V.: Switching Processes in Queueing Models

Anisimov V.V., Kurtulus M.: Markov Retrial Queueing Models in Light Traffic Conditions
Cybernetics and System Analysis 36, No. 6(2001) 110-126

Anisimov V.V., Kurtulus M.: Some Markovian Queueing Retrial Systems under Light Traffic Conditions
Cybernetics and System Analysis 37, No. 6(2001) 876-887

Colajanni M., Presti F.L. Tucci S.: A hierarchical approach for bounding the completion time distribution of stochastic task graphs


26. A heterogeneous SCAN service polling model with single-message buffer
Proc. IFIP WG 7.3, Kyoto, Japan (1991) 99-111
Co-author: B.D. Bunday

Borella M.S., Mukherjee B.: An Improved Model of Heterogeneous Elevator (SCAN) Polling
Chapter 7 in Network System Design, Edited by E. Gelenbe, K.K. Bagchi, G.W. Zobrist

Dshalalow J.H.: Frontiers in Queueing, Models and Applications in Science and Engineering

27. Asymptotic behaviour of a complex renewable standby system with fast repair
Problems of Control and Information Theory 20 (1991) 37-44
Co-author: A. Chernyak

Illichevs'kyi S.: The analysis of investment activity of insurance company
Economics Analysis 10 (2012) 39-41

TOP online (2013), DOI 10.1007/s11750-013-0307-7,

   *Acta Cybernetica 10 (1991) 85-91*  
   Co-author : L. Lukashuk  

   Cordeiro J.D.:  
   Unreliable Retrial Queues in a Random Environment  
   PhD Dissertation, Air Force Institute of Technology AFIT/DS/ENS/07-03  2007, Ohio, USA  

   Mokhtari S.:  
   Etude de files d'attente avec rappels et priorité  
   PhD Dissertation, Université des Sciences et de la Technologie Houari Boumediene, 2014  

29. The maintenance of bi-directionally patrolled machines  
   Co-author : B.D. Bunday  

   Dshalalow J.H.:  
   Frontiers in Queueing, Models and Applications in Science and Engineering  

30. Asymptotic analysis of the reliability of a complex standby system with fast repair  
   *Theory of Probab. and its Appl. 37 (1992) 101-104*  

   Hague L., Armstrong M.J.:  
   A survey of the machine interference problem  
   European Jornnal of Operational Reseach 179 (2007) 469-482  

   Vanderperre E. J., Makhanov S.S :  
   Availability analysis of a repairable duplex system: a z-dependent Sokhotski-Plemejn problem  
   TOP online (2013), DOI 10.1007/s11750-013-0307-7,  

   Wang K.H., Ke J. B., Ke. J. C.:  
   Profit analysis of the M/M/R machine repair problem with balking, renegig, and standby switching failures  

31. Asymptotic analysis of a heterogeneous renewable complex system with random environments  
   *Microelectronics and Reliability 32 (1992) 975-986*  

   Anisimov V.V.:  
   Asymptotic Analysis of Reliability for Switching Systems in Light and Heavy Traffic Conditions  
   Recent Advances in Reliability Theory: Methodology, Practice and Inference  

   Anisimov V.V.:  
   Limit Theorems for Switching Processes and Applications to Queueing Models  
   Electronic Modeling 23, No. 2(2001) 22-34  

   Anisimov V.V.:  
   Switching Processes in Queueing Models  

   Anisimov V.V., Kurtulus M.:  
   Markov Retrial Queueing Models in Light Traffic Conditions  
   Cybernetics and System Analysis 36, No. 6(2001) 110-126
Anisimov V.V., Kurtulus M.:
Some Markovian Queueing Retrial Systems under Light Traffic Conditions
Cybernetics and System Analysis 37, No. 6 (2001) 876-887

Ke J.C., Lee S.L., Hsu Y.L., Chen Y.T.:
On a repairable system with an un-reliable service station- Bayesian approach
Computers and Mathematics with Applications 56 (2008) 1668-1683

Kovalenko I.N.:
Estimation of the intensity of flow of nonmonotone failures in (La)/G/m queueing systems
Ukrainian Mathematical Journal 52, No. 9 (2000) 1219-1226

32. An asymptotic approach to the machine interference problem with Markovian environments
Co-author : B.D. Bunday

Kovalenko I.N.:
Estimation of the intensity of flow of nonmonotone failures in (La)/G/m queueing systems
Ukrainian Mathematical Journal 52, No. 9 (2000) 1219-1226

Kovalenko I.N.:
Light Traffic Analysis of Complex System Reliability
Recent Advances in Reliability Theory: Methodology, Practice and Inference

33. Modelling of a multiprocessor system in a randomly changing environment
Performance Evaluation 17 (1993) 1-11

Al-Begain.:
Performance models for 2.5/3G mobile systems and networks
Lecture Notes in Computer Science 2965 (2004) 143-167

Baum D., Kovalenko I.:
Averaging properties of a Cox/G/m/0 loss system

Mahdavi M., Edwards R.M., Ivey P.:
Performance analysis of integrated voice and multiple classes of data with finite number of sessions

Mahdavi M., Edwards R.M., Ladas C.V.:
On the effect of a random access protocol on the performance of the sectioan-based data subsystems in GSM/GPRS

Telek M., Pfening A., Fodor G.:
Analysis of the Completion Time of Markov Reward Models and its Applications
Acta Cybernetica 13 (1998) 439-452

34. Simulation of Rare Queueing Events by Switching Arrival and Service Rates
Proceedings of the 1993 Winter Simulation Conference 317-322
Co-author : R. Cheng

Heegord P.E., Helvik B.:
On the use of likelihood ration as indicator of accuracy of importance sampling estimates
Proceedings of 2nd International Workshop on Rare Events Simulation, RESIM99, 29-38
Schruben L.W.: 
Common Random Numbers 
DOI: 10.1002/9780470400531.eorms0166

35. Machine interference problem with a random environment

Co-author : B.D. Bunday 

Al-Begain.: 
Performance models for 2.5/3G mobile systems and networks 
Springer Lecture Notes in Computer Science 2965 (2004) 143-167 

Ampatzidis Y., Vougioukas S., Whiting M.: 
Simulation of Bin Loading Process During Manual Harvest of Specialty Crops Using the Machine Repair Model 
Proceedings of the 5th International Conference on Information and Communication Technologies in Agriculture, Food and Environment (HAICTA), Skiathos Island, Greece, 2011 

Ampatzidis Y., Vougioukas S., Whiting M., Zhang Q.: 
Applying the machine repair model to improve efficiency of harvesting fruit 

Baan F.: 
Modelling labour allocation over the number of running machines and type of product 
Master of Science Dissertation, University of Twente, The Netherlands, 2012 

Chen S. P.: 
Non-linear programming for the optimization of machine repair problems in fuzzy environments 

Chen S. P.: 
A mathematical programming approach to the machine repair problems with fuzzy parameters 

Ching W.K.: 
Machine repairing models for production systems 

Cordeiro J.D.: 
Unreliable Retrial Queues in a Random Environment 
PhD Dissertation, Air Force Institute of Technology AFIT/DS/ENS/07-03 2007, Ohio, USA 

Hague L., Armstrong M.J.: 
A survey of the machine interference problem 
European Jornal of Operational Reseach 179 (2007) 469-482 

Jain M., Bhargava C.: 
N-Policy Machine Repair System with Mixed Standbys and Unreliable Server 
Quality Technology and Quantitative Management 6 (2009) 171-184 

Ke J.C., Lin C.H.: 
Sensitivity analysis of machine repair problems in a manufacturing systems with service interruptions 

Mahdavi M., Edwards R.M., Ivey P.: 
Performance analysis of integrated voice and multiple classes of data with finite number of sessions 
Mahdavi M., Edwards R.M., Ladas C.V.:
On the effect of a random access protocol on the performance of the seccion-based data subsystems in GSM/GPRS

Yang T., Lee R.S., Chen M.C., Chen P.:
Queueing network model for a single-operator machine interference problem with external operations

36. A queueing model for non-homogeneous terminal system subject to breakdowns
Computers and Mathematics with Applications 25 (1993) 105-111
Co-author: B. Almási

Hague L., Amstrong M.J.:
A survey of the machine interference problem

Morales J., Castellanos M.E., Mayoral A.M., Fried R. and Armero C.:
Bayesian design in queues: An application to aeronautic maintenance

Sahba P., Balcioglu B., Banjevic D.:
The impact of disruption characteristics on the performance of a server
http://dx.doi.org/10.1007/s10479-015-2075-2

Tadj L., Choudhury G., Rekab K.:
A two–phase quorum queueing system with Bernoulli vacation schedule, setup, and N–policy for an unreliable server with delaying repair

37. Asymptotic analysis of the heterogeneous machine interference problem with random environments
Applied Mathematical Modelling 17 (1993) 105-110
Co-author : B.D. Bunday

Cordeiro J.D.:
Unreliable Retrial Queues in a Random Environment
PhD Dissertation, Air Force Institute of Technology AFIT/DS/ENS/07-03 2007, Ohio, USA

Hague L., Amstrong M.J.:
A survey of the machine interference problem

38. Asymptotic Analysis of a Heterogeneous Finite-Source Communication System Operating in Random Environments
Publicationes Mathematicae 42 (1993) 225-238

Cordeiro J.D.:
Unreliable Retrial Queues in a Random Environment
PhD Dissertation, Air Force Institute of Technology AFIT/DS/ENS/07-03 2007, Ohio, USA

Golovko N.I, Katrakhov V.V., Ryzhkov D.E.:
Queueing Systems with Finite Memory and Jump Intensity of the Arrival process
Automation and Remote Control 70 (2009) 1176-1189

- 19 -
39. Queueing Model for a Non-Reliable Multi-Terminal System with Polling Scheduling
   Co-author: B. Almási

   Dorda M.:
   On two modifications of E/E/1/m queueing system with a server subject to breakdowns
   Applied Mathematical Sciences 7 (2013) 539-550

   Hague L., Armstrong M.J.:
   A survey of the machine interference problem

   Morales J., Castellanos M.E., Mayoral A.M., Fried R. and Armero C.:
   Bayesian design in queues: An application to aeronautic maintenance

   Morales J., Castellanos M.E., Mayoral A.M., Fried R. and Armero C.:
   Bayesian design in queues: An application to aeronautic maintenance

   Sahba P., Balcioglu B., Banjevic D.:
   The impact of disruption characteristics on the performance of a server
   http://dx.doi.org/10.1007/s10479-015-2075-2

40. The effects of service disciplines on the operation of a non-reliable terminal system
   Journal of Mathematical Sciences 92 (1998) 3982-3989
   Co-author: B. Almási

   Hague L., Armstrong M.J.:
   A survey of the machine interference problem

   Sahba P., Balcioglu B., Banjevic D.:
   The impact of disruption characteristics on the performance of a server
   http://dx.doi.org/10.1007/s10479-015-2075-2

41. Optimization Problems on the Performance of a Non-reliable Terminal System
   Computers and Mathematics with Applications 38 (1999) 13-21
   Co-author: B. Almási

   Begain K., Bolch G., Herold H.:
   Practical Performance Modeling
   Kluwer Academic Publisher, Boston, 2000, 355-361

   Hague L., Armstrong M.J.:
   A survey of the machine interference problem

   Khoveyni M., Eslami R.:
   Malmquist productivity index in several time periods on interval data
Roszik J.:
Homogeneous finite-source retrial queues with server and sources subject to breakdowns and repairs
Technical Report of Institute of Mathematics and Informatics,

Roszik J.:
Homogeneous finite-source retrial queues with server and sources subject to breakdowns and repairs

Sahba P., Balcioglu B., Banjevic D.:
The impact of disruption characteristics on the performance of a server
http://dx.doi.org/10.1007/s10479-015-2075-2

42. Modeling Terminal Systems using MOSEL
Proceedings of 11th European Simulation Symposium, Erlangen, Germany (1999) 625-629
Co-authors: B. Almási, G. Bolch

Heidtmann K.:
Statistical Comparison of Two Sum-of-Disjoint-Product Algorithms for Reliability and Safety
Evaluation
SAFECOMP 2002, LNCS 2434 (2002) 70-81

43. A Tool for Simulation of Markov-Modulated Finite-Source Queueing Systems
Proceedings of Messung Modellierung und Berwertung (MMB'99), Trier, Germany, (1999)
Co-author: O. Moller

Kim C.S.:
Finite-Source Queueing Models for Analysis of Complex Communication Systems

44. Performability Modeling of Non-homogeneous Terminal Systems Using MOSEL
Co-authors: B. Almási, G. Bolch

Roszik J.:
Homogeneous finite-source retrial queues with server and sources subject to breakdowns and repairs
Technical Report of Institute of Mathematics and Informatics,

Roszik J.:
Homogeneous finite-source retrial queues with server and sources subject to breakdowns and repairs

45. Performability Modeling a Client-Server Communication System with Randomly Changing Parameters Using MOSEL
Co-authors: B. Almási, G. Bolch

Morales J., Castellanos M.E., Mayoral A.M., Fried R. and Armero C.:
Bayesian design in queues: An application to aeronautic maintenance
46. CAC Algorithm Based on Advanced Round Robin Method for QoS Networks
   Proceeding of the 6th IEEE Symposium on Computers and Communications (ISCC 2001),
   Hammamet, Tunisia, (2001) 266-274
   Co-authors: T. Marosits, S. Molnár

   Blanco H., Parra I.:
   Evaluation of scheduling algorithms in WIMAX networks

   Joutsensalo J., Viinikainen A., Kannisto L., Hamalainen T.:
   Packet scheduling with revenue optimization and weighted delay minimization
   Global Telecommunications Conference, GLOBECOM'05 (2005) 513-517

   Uykan Z.:
   A temporal Round Robin Scheduler

   Yu S., Casey J., Zhou W.:
   A Load Balancing Algorithm for Web Based Server Grids
   Grid and Cooperative Computing, Lecture Notes in Computer Science 3033 (2004) 121-128

   Yu S., Casey J., Zhou W.:
   Load Balance Algorithms for Anycast
   Proceedings of the 6th International Conference on Information Integration and Web-based Applications
   Services (2004) 471-480

   Yu S.:
   Anycast Services and Its Applications
   PhD Dissertaion, Deakin University, Melbourne, Australia, 2004

47. Stochastic simulation of Markov-modulated finite-source queueing systems
   Journal of Mathematical Sciences 105 (2001) 2615-2625
   Co-author: O. Moeller

   Hague L., Armstrong M.J.:
   A survey of the machine interference problem
   European Jopurnal of Operational Reseach 179 (2007) 469-482

   Jiang X.:
   Simulation Model ont he Maintenance of Mining Equipment

48. Markov-Modulated Finite-Source Queueing Models and their Applications

   Hague L., Armstrong M.J.:
   A survey of the machine interference problem
   European Jopurnal of Operational Reseach 179 (2007) 469-482

49. Simulation of machine interference in randomly changing environments
   Co-author: O. Moeller

   Hague L., Armstrong M.J.:
   A survey of the machine interference problem
   European Jopurnal of Operational Reseach 179 (2007) 469-482
50. Performance Modeling of Non-homogeneous Unreliable Multi-Server Systems Using MOSEL

**Computers and Mathematics with Applications** 46 (2003) 293-312
Co-authors: A. Zreikat, G. Bolch

Bhargava C., Jain M.:
Unreliable multiserver queueing system with modified vacation policy
OPSEARCH  [http://dx.doi.org/10.1007/s12597-013-0138-1](http://dx.doi.org/10.1007/s12597-013-0138-1)

Hellerstein JL., Katircioglu K., Surendra M.:
An on-line, business-oriented optimization of performance and availability for utility computing
IBM Research Reports, Thomas J. Watson Research Center RC23325 (2003)

Hellerstein JL., Katircioglu K., Surendra M.:
An on-line, business-oriented optimization of performance and availability for utility computing
IEEE Journal on Selected Areas in Communications 23 (2005) 2013-2021

Jain M., Agrawal P.K.:
Optimal policy for bulk queue with multiple types of server breakdown

51. Markov-modulated finite-source queueing models in evaluation of computer and communication systems

**Mathematical and Computer Modelling** 38 (2003) 961-968
Co-author: Che Soong Kim

Cordeiro J.D.:
Unreliable Retrial Queues in a Random Environment
PhD Dissertation, Air Force Institute of Technology AFIT/DS/ENS/07-03 2007, Ohio, USA

Hague L., Armstrong M.J.:
A survey of the machine interference problem

Ko Eung-Nam:
A Web Based Multimedia Collaboration System with Session and Error Management
Proceedings of the 6th WSEAS International Conference on Applied Computer Science (2007) 76-81

Ling L., Liang L., Hu Z., Yang F.:
Effect of upper and lower withdrawal limits on queue length
Applied Mathematics and Computation 218 (2011) 3834-3846

Minkevicius S., Kulvietis G.:
Reliability in computer networks
IFIP International Federation for Information Processing 199 (2006) 295-300

Minkevicius S.:
The impact of overload conditions on computer network reliability

Minkevicius S.:
Analysis of reliability in computer systems

Minkevicius S.:
Analysis and investigation of reliability model in computer networks
Minkevicius S.:
Analysis of the Component-Based Reliability in Computer Networks

Minkevicius S., Kulvietis G.:
Investigation of the Reliability of Multiserver Computer Networks
Proceedings of the 18th International Conference Analytical and Stochastic Modeling Techniques and Applications, ASMTA (2011) 249-257

Pardo M.J., Fuente D.:
Optimal selection of the service rate for a finite input source fuzzy queueing system

52. Heterogeneous Finite-Source Retrial Queues in the Analysis of Communication Systems with CSMA/CD Protocols
Co-authors: G. Bolch, J. Roszik

Artalejo J.R – Gomez C.:
Retrial Queueing Systems, A Computational Approach
Springer Verlag, Berlin, 2008

Gharbi N., Dutheillet C., Ioualalen M.:
Colored stochastic Petri nets for modelling and analysis of multiclass retrial systems
Mathematical and Computer Modelling 49 (2009) 1436-1448

53. Heterogeneous Finite-Source Retrial Queues
Journal of Mathematical Sciences 121 (2004) 2590-2596
Co-authors: B. Almási, G. Bolch

Artalejo J.R., Gomez C.:
Retrial Queueing Systems, A Computational Approach
Springer Verlag, Berlin, 2008

Artalejo J.R.:
Accessible bibliography on retrial queues: Progress in 2000-2009
Mathematical and Computer Modelling 51 (2010) 1071-1081

Gharbi N., Dutheillet C., Ioualalen M.:
Colored stochastic Petri nets for modelling and analysis of multiclass retrial systems
Mathematical and Computer Modelling 49 (2009) 1436-1448

Hague L., Amstrong M.J.:
A survey of the machine interference problem
European Jopurnal of Operational Reseach 179 (2007) 469-482

Kárász P.:
Cyclic-Waiting and Vacational Queuing Systems
PhD Dissertation, ELTE University (2008)

Lakatos L., Koltai T.:
A discrete retrial system with uniformly distributed service time
Zhang F., Wang J.:
Stochastic analysis of a finite source retrial queue with spares and orbit search
Measurement, Modelling, and Evaluation of Computing Systems and Dependability and Fault Tolerance
Springer Lecture Notes in Computer Science Volume 7201 (2012 16-30

54. Reliability Investigation of Heterogeneous Terminal Systems Using MOSEL
Co-authors: B. Almási

Hague L., Amstrong M.J.:
A survey of the machine interference problem

Kárász P.:
Cyclic-Waiting and Vacational Queuing Systems
PhD Dissertation, ELTE University (2008)

Sabha P., Balcioglu B., Banjevic D.:
Analysis of the Finite-source Multi-class Priority Queue with an Unreliable Server and Setup Time
Technical Report MIE-OR-TR2010-02 University of Toronto, Canada, 2010

Sabha P., Balcioglu B., Banjevic D.:
Analysis of the Finite-source Multi-class Priority Queue with an Unreliable Server and Setup Time
Naval Research Logistic 60 (2013) 331-342

Sabha P., Balcioglu B., Banjevic D.:
The impact of disruption characteristics on the performance of a server
http://dx.doi.org/10.1007/s10479-015-2075-2

55. Performance analysis of finite-source retrial queues with server subject to breakdowns and repair
Co-authors: J. Roszik

Crawford B., Kharoufeh J.P.:
Approximate Analysis of an Unreliable Multiserver Retrial Queue

Crawford B.:
Approximate Analysis of an M/M/2 Multiserver Retrial Queue
Thesis, Air Force Institute of Technology AFIT/GOR/ENS/07-05 2007, Ohio, USA

Gharbi N., Ioualalen M.:
GSPN analysis of retrial systems with servers breakdowns and repair
Applied Mathematics and Computations 174 (2007) 1151-1168

56. The effects of server’s on the performance of finite-source retrial queueing systems
Vol. 2 221-230
Co-author: J. Roszik

Artalejo J.R., Gomez C.:
Retrial Queuing Systems, A Computational Approach
Springer Verlag, Berlin, 2008
Gharbi N., Dutheillet C., Ioualalen M.:
Colored stochastic Petri nets for modelling and analysis of multiclass retrial systems
Mathematical and Computer Modelling 49 (2009) 1436-1448

Wang J., Zhao L., Zhang F.:
Performance analysis of the finite source retrial queue with server breakdowns and repairs
Proceedings of the 5th International Conference on Queueing Theory and Network Applications
Beijing, 2010

57. Retrial queues for performance modelling and evaluation of heterogeneous networks
Proceedings of Conference on Performance Modelling and Evaluation of Heterogeneous Networks,
Co-author: J. Roszik

Gharbi N., Dutheillet C., Ioualalen M.:
Colored stochastic Petri nets for modelling and analysis of multiclass retrial systems
Mathematical and Computer Modelling 49 (2009) 1436-1448

Joma George M.P., Alit Mohamed O.:
Modeling discrete event system with distributions using SystemVerilog

58. Performance Comparison of Traditional Schedulers in DiffServ Architectures Using NS
Co-author: M. Lengyel

Prabhavat S., Nishiyama H., Ansari N., Kato N.:
On Load Distribution over Multipath Networks
IEEE Communications Survey and Tutorials (2012) 662-680

Prabhavat S.:
A study on traffic distribution model over multipath networks
PhD Dissertation, Tohoku University, Japan (2011)

59. Retrial queues in the performance modeling of cellular mobile networks using MOSEL
International Journal of Simulation 6 (2005) 38-74
Co-authors: J. Roszik, C.S. Kim

Arrar N., Djellab N., Baillon J.:
On the asymptotic behaviour of M/G/1 retrial queues with batch arrivals and impatience phenomenon
Mathematical and Computer Modelling (2012) 654-665

Artalejo J.R., Gomez C.:
Retrial Queueing Systems, A Computational Approach
Springer Verlag, Berlin, 2008

Artalejo J.R.:
Accessible bibliography on retrial queues: Progress in 2000-2009
Mathematical and Computer Modelling 51 (2010) 1071-1081

Böhm W.:
Queues and Networks
Encyclopedia of Statistical Sciences, John Wiley and Sons (2011)
http://dx.doi.org/10.1002/0471667196.ess7141
Diaba S., Y., Shaddrack N., N., Y., Anafo T., Cobbah M.:
Evaluating the Effect of FIFO Queuing Scheme on Originating and Handoff Calls in Cellular Networks

Gharbi N.:
On the Applicability of Stochastic Petri Nets for Analysis of Multiserver Retrial Systems with Different Vacation Policies
Automated Technology for Verification and Analysis, Lecture Notes in Computer Science Vol. 5311 (2008), 0302-9743 (Print) 1611-3349 (Online)

Gharbi N., Dutheillet C., Ioualalen M.:
Colored stochastic Petri nets for modelling and analysis of multiclass retrial systems
Mathematical and Computer Modelling 49 (2009) 1436-1448

Gharbi N., Dutheillet C.:
An algorithmic approach for analysis of finite-source retrial systems with unreliable servers
Computers and Mathematics with Applications 62 (2011) 2535-2546

Gharbi N.:
Modeling and performance evaluation of small cell wireless networks with base station channels breakdowns
Proceedings of 8th International Conference on Wireless and Mobile Communications, Venice, Italy (2012) 42-48

Gharbi N., Nemmouchi B., Mokdad L., Ben-Othman J.:
The Impact of Breakdowns Disciplines and Repeated Attempts on Performances of Small Cell Networks
Journal of Computational Science (2014) http://dx.doi.org/10.1016/j.jocs.2014.02.01

Kárász P.:
Cyclic-Waiting and Vacational Queuing Systems
PhD Dissertation, ELTE University (2008)

Kuboye B.M., Alese B.K.:
Prioritized Data Calls with Time Threshold Performance Model in GSM
International Journal of Applied Information Systems (IJIAS) 7 (2014) 6-12

Kuboye B. M., Alese B. K., Adewale O. S., Falaki S.O. :
Multi-Level Access Priority Channel Allocation with Time Threshold in Global System for Mobile Communications (GSM) Networks
http://dx.doi.org/10.5815/ijitcs.2015.11.03

Purohit N., Tokekar S.:
A new measure of survivability for a cellular network
Proceedings of 4th International Conference on Wireless Communication and Sensor Networks
WCSN 2008 (2008) 201-205

60. Homogeneous Finite-Source Retrial Queues with Server Subject to Breakdowns and Repairs
Mathematical and Computer Modeling 42 (2005) 673-682
Co-authors: B. Almási, J. Roszik

Adetunji O.:
Inventory Management in Supply Chains with Stochastic Inputs
PhD Dissertation, University of Pretoria, South Africa, 2010
Artalejo J.R, Gomez C.:
Retrial Queueing Systems, A Computational Approach
Springer Verlag, Berlin, 2008

Artalejo J.R.:
Accessible bibliography on retrial queues: Progress in 2000-2009
Mathematical and Computer Modelling 51 (2010) 1071-1081

Bai X., Wang H.:
Research and application on reliability of queueing system based on large system theory
WSEAS Transactions on Computers. 6 (2007) 324-238

Benlloch M.J., Guzman J.M., Pla V., Bauset J.M., Giner V.C.:
On the efficient solution of a multiserver system with two reatempt orbits
Mathematical and Computer Modelling 51 (2010) 1082-1096

Bérczes T., Horváth Á.:
A Finite-Source Queueing Model for Spectrum Renting in Mobile Cellular Networks
http://dx.doi.org/10.1109/ELEKTRO.2014.6847865

Cordeiro J.D.:
Unreliable Retrial Queues in a Random Environment
PhD Dissertation, Air Force Institute of Technology AFIT/DS/ENS/07-03 2007, Ohio, USA

Crawford B.:
Approximate Analysis of an Unreliable M/M/2 Retrial Queue
Thesis, Air Force Institute of Technology AFIT/GOR/ENS/07-05 2007, Ohio, USA

Do V.T.:
A Computational Algorithm for the CPP/M/c Retrial Queue
Annales Mathematicae et Informaticae 36 (2009) 61-69

Do V.T.:
A New Computational Algorithm for Retrial Queues to Cellular Mobile Systems with Guard Channels
Computers and Industrial Engineering 59 (2010) 865-872

Do V.T.:
Multi-Server Markov Queueing Models: Computational Algorithms and ICT Applications
DSc Dissertation, Hungarian Academy of Sciences (2010)

Dragieva V.I.:
A finite source retrial queue: number of retrials

Dragieva V.I.:
System state distributions in one finite source unreliable retrial queue
Proceedings of Belarusian Winter Workshops in Queueing Theory, BWWQT 2013, Minks (2013) 10-17

Dragieva V.I.:
Number of retrials in a finite source retrial queue with unreliable server
Asia-Pacific Journal of Operational Research 31 (2014) 1440005 (23 pages),
http://dx.doi.org/10.1142/S0217595914400053
Falin G.:  
An M/G/1 retrial queue with an unreliable server and general repair times  
Performance Evaluation 67 (2010) 569-582

Gharbi N., Ioualalen M.:  
GSPN analysis of retrial systems with servers breakdowns and repair  
Applied Mathematics and Computations 174 (2007) 1151-1168

Gharbi N., Dutheillet C.:  
An algorithmic approach for analysis of finite-source retrial systems with unreliable servers  
Computers and Mathematics with Applications 62 (2011) 2535-2546

Gharbi N.:  
A numerical approach for performance evaluation of cellular mobile networks with channel breakdowns  
Proceedings of ICN 2013, The 12th International Conference on Networks (2013) 190-196

Gharbi N., Nemmouchi B., Mokdad L., Ben-Othman J.:  
The Impact of Breakdowns Disciplines and Repeated Attempts on Performances of Small Cell Networks  
Journal of Computational Science (2014) http://dx.doi.org/10.1016/j.jocs.2014.02.01

Horváth Á., Bérczes T.:  
Spectrum renting with two finite source pools in mobile cellular networks  
Communications 1 (2015) 4-11

Ilkhef L., Lekadir O., Aissani D.:  
MRSPN analysis of Semi-Markovian finite source retrial queues  

Jain M., Mishra A.:  
Reliability analysis of unreliable server retrial queue with bulk arrivals  

Jain M., Chauhan.:  
Working Vacation Queue with Second Optional Service and Unreliable Server  

Jeganathan K., Anbazhagan N.:  
Perishable inventory system with finite population and repeated attempts  

Jeganathan K.:  
A Finite Source Perishable Inventory System with Retrial Demands, Server Interruptions and Multiple Vacations  

Karthick T., Sivakumar B., Arivarignan G.:  
An inventory system with two types of customers and retrial demands  
http://dx.doi.org/10.1080/23302674.2014.1001004

Квач, А. С., Назаров, А. А.:  
Исследование замкнутой RQ-системы M/GI/1//N с конфликтами заявок в условиях неограниченно растущего числа источников  
2015. Международная научная конференция: "Теория вероятностей, случайные процессы, математическая статистика и приложения" 65-70
Kárász P.:
Cyclic-Waiting and Vacational Queuing Systems
PhD Dissertation, ELTE University (2008)

Kumar B.K., Thanikachalam A., Kanakasabapathi V., Ruksamni R.:
Performance analysis of a multiprogramming–multiprocessor retrial queueing system with orderly reattempts
http://dx.doi.org/10.1007/s10479-015-2005-03

Lakatos L., Koltaí T.:
A discrete retrial system with uniformly distributed service time

Ling L., Liang L., Hu Z., Yang F.:
Effect of upper and lower withdrawal limits on queue length
Applied Mathematics and Computation 218 (2011) 3834-3846

Nazarov A., Kvach A., Yampolsky V.:
Asymptotic Analysis of Closed Markov Retrial Queueing Systems with Collision
Information Technologies and Mathematical Modelling, Communications in Computer and Information Science Volume 487, 2014, 334-341

Padmavathi I., Shophia Lawrence A., Sivakumar B.:
A finite-source inventory system with postponed demands and modified M vacation policy
OPSEARCH 2015, http://dx.doi.org/10.1007/s12597-015-0224-7

Pardo M.J., Fuente D.:
Optimal selection of the service rate for a finite input source fuzzy queueing system
Fuzzy Sets and Systems 159 (2008) 325-342

Sagayaraj M., R., Moganraj D.:
Single server retrial queue starting failure, subject to break down with multiple vacations
International Journal of Mathematical Archive 6(2015) 131-139

Sherman N.P.:
Analysis and control of unreliable, single-server retrial queues with infinite-capacity orbit and normal queue

Singh C.J, Jain M., Kumar B.:
Analysis of unreliable bulk queue with state dependent arrivals

Sivakumar B.:
A perishable inventory system with retrial demands and finite population

Taleb S., Saggou H.:
Unreliable M/G/1 retrial queue with geometric loss and random reserved time

Yadavalli V.S.S., Sivakumar B., Arivarignan G., Adetunji O.:
A finite source multi-server inventory system with service facility
Computers and Industrial Engineering (2012), http://dx.doi.org/10.1016/j.cie.2012.04.014
Wang J., Zhai L., Zhang F.: 
Analysis of the finite source retrial queues with server breakdowns and repairs 
Journal of Industrial and Management Optimization 7 (2011) 655-676

Wuechner P.: 
Energy-Efficient and Timely Event Reporting Using Wireless Sensor Networks 
PhD Thesis, Faculty of Mathematics and Informatics, University of Passau, 2013

Zhang F., Wang J.: 
Performance analysis of the retrial queue with finite number of sources and service interruptions 

61. Tool Supported Performance Modelling of Finite-Source Retrial Queues with Breakdowns 
Publicationes Mathematicae 66 (2005) 197-211

Artalejo J.R.: 
Accessible bibliography on retrial queues: Progress in 2000-2009 
Mathematical and Computer Modelling 51 (2010) 1071-1081

Artalejo J.R, Gomez C.: 
Retrial Queueing Systems, A Computational Approach 
Springer Verlag, Berlin, 2008

Do V.T.: 
A Computational Algorithm for the CPP/M/c Retrial Queue 
Annals Mathematicae et Informaticae 36 (2009) 61-69

Do V.T.: 
A New Computational Algorithm for Retrial Queues to Cellular Mobile Systems with Guard Channels 
Computers and Industrial Engineering 59 (2010) 865-872

Do V.T.: 
Multi-Server Markov Queueing Models: Computational Algorithms and ICT Applications 
DSc Dissertation, Hungarian Academy of Sciences (2010)

Kárász P.: 
Cyclic-Waiting and Vacational Queuing Systems 
PhD Dissertation, ELTE University (2008)

62. Simulation of differentiated services in network simulator 
Co-authors: M. Lengyel. C.S. Kim

Haikal A. Y., Badawy M., Ali H.A.: 
Towards Internet QoS Provisioning Based on Generic Distributed QoS Adaptive Routing Engine 
http://dx.doi.org/10.1155/2014/694847

Prabhavat S.: 
A study on traffic distribution model over multipath networks 
PhD Dissertation, Tohoku University, Japan (2011)

Prabhavat S., Nishiya H., Ansari N., Kato N.: 
On Load Distribution over Multipath Networks 
IEEE Communications Survey and Tutorials (2012) 662-680
Vo Mihn Thanh:
A Network Link Dimensioning Model for Aggregated Traffic in Differentiated Services IP-based Networks
Asian Institute of Technology (2007) Thesis

63. The impact of multimedia traffic on the performance of proxy cache server
Co-author: T. Bérees

Karunaratha N., Lee G.M. Kim A., Jeong S.H.:
Performance Evaluation of Hierarchical Proxy Servers for Multimedia Services
Proceedings of 2013 International Conference on ICT Convergence, Jeju Island (2013) 1033-1038

64. Modeling finite-source retrial queueing systems with heterogeneous non-reliable servers by MOSEL
Co-authors: G. Bolch, J. Roszik

Kim C., Klimenok V., Orlovsky D.:
The BMAP/PH/N retrial queue with Markovian flow of breakdowns

65. Finite-source queueing systems and their applications
Formal Methods in Computing, Chapter 7, Akadémia Kiadó, 2005
Editors: M. Ferenczi, A. Pataricza, L. Rónyai

Azimzadeh P., Carpenter T.:
Fast Engset computation

Dolgopolovas V., Dagiene V., Minkevicius S., Sakalaukas L.:
Python for scientific computing education: Modeling of queueing systems
Scientific Programming 22 (2014) 37-51

Jeganathan K.:
Finite source Markovian inventory system with bonus service for certain customers

Lawrence A.S., Sivakumar B., ArivarignanG.:
A perishable inventory system with service facility and finite source

Patil R., Singh R.K.:
Scaling in Cloud Computing

Rahmoune F., Aissani D.:
Quantitative Stability Estimates in Queues with Server Vacation
http://dx.doi.org/10.1007/s10958-014-1932-x
66. Heterogeneous Finite-Source Retrial Queues with Server Subject to Breakdowns and Repairs


Co-authors: B. Almási, J. Roszik

Artalejo J.R.:
Accessible bibliography on retrial queues: Progress in 2000-2009
Mathematical and Computer Modelling 51 (2010) 1071-1081

Amador J., Artalejo J.R.:
The M/G/1 retrial queue: New descriptors of the customer’s behavior

Artalejo J.R, Gomez C.:
Retrial Queueing Systems, A Computational Approach
Springer Verlag, Berlin, 2008

Cordeiro J.D.:
Unreliable Retrial Queues in a Random Environment
PhD Dissertation, Air Force Institute of Technology AFIT/DS/ENS/07-03 2007, Ohio, USA

Dorda M.:
On two modifications of E/E/1/m queueing system with a server subject to breakdowns
Applied Mathematical Sciences 7 (2013) 539-550

Dragieva V.I.:
System state distributions in one finite source unreliable retrial queue
Proceedings of Belarusian Winter Workshops in Queueing Theory, BWWQT 2013, Minks (2013) 10-17

Gharbi N., Dutheillet C.:
An algorithmic approach for analysis of finite-source retrial systems with unreliable servers
Computers and Mathematics with Applications 62 (2011) 2535-2546

Gharbi N.:
A numerical approach for performance evaluation of cellular mobile networks with channel breakdowns
Proceedings of ICN 2013, The 12th International Conference on Networks (2013) 190-196

Gharbi N., Nemmouchi B., Mokdad L., Ben-Othman J.:
The Impact of Breakdowns Disciplines and Repeated Attempts on Performances of Small Cell Networks
Journal of Computational Science (2014) http://dx.doi.org/10.1016/j.jocs.2014.02.01

Квач, А. С., Назаров, А. А.:
Исследование замкнутой RQ-системы М/ГI/1//N с конфликтами заявок в условиях неограниченно растущего числа источников
2015. Международная научная конференция: "Теория вероятностей, случайные процессы, математическая статистика и приложения" 65-70

Kárász P.:
Cyclic-Waiting and Vacational Queuing Systems
PhD Dissertation, ELTE University (2008)

Nazarov A., Kvach A., Yampolsky V.:
Asymptotic Analysis of Closed Markov Retrial Queueing Systems with Collision
Information Technologies and Mathematical Modelling, Communications in Computer and Information Science Volume 487, 2014, 334-341
67. Performance modeling tools with applications

Annales Mathematicae et Informaticae 33 (2006) 125-140
Co-author: C.S. Kim

Gonsalves T., Itoh K.:
GA optimization of Petri net-modeled concurrent service systems

68. BitTorrent file sharing in mobile ad-hoc environment

Co-author: G. Balázsfalvi

Quental N.C.:
BitTorrent sobre MANETs em áreas reduzidas: mobilidade, tamanho de peça e seus impacto

Quental N.C.:
Um Sistema de Disseminação de Pieces para a Melhoria do Desempenho de Aplicações BitTorrent sobre
MANETs
Dissertation, Universidade de Pernambuco, Brasil (2009)

69. Modeling finite-source retrial queueing systems with unreliable heterogeneous servers and different service policies using MOSEL

Co-authors: G. Bolch, J. Roszik, P. Wuechner

Zreikat A.I.:
Application of the MOSEL-2 Language in Performance and Modeling of Cellular Wireless Networks

70. Performance evaluation of a proxy cache server

Híradástechnika LXI (2006) 2-5
Co-author: T. Bérczes

Karunaratha N., Lee G.M. Kim A., Jeong S.H:
Performance Evaluation of Hierarchical Proxy Servers for Multimedia Services
Proceedings of 2013 International Conference on ICT Convergence, Jeju Island (2013) 1033-1038

71. Performance Modeling of Proxy Cache Servers

Co-author: T. Bérczes

Al-Hemiary E.H.:
Modelling and Performance Evaluation of Router Transparent Web cache Mode

Nikolov A.V.:
Finite capacity queue with multiple Poisson arrivals and generally distributed service times
72. Performance analysis of finite-source retrial queues operating in random environments

Co-authors: J. Roszik, J. Virtamo

Artalejo J.R.:
Accessible bibliography on retrial queues: Progress in 2000-2009
Mathematical and Computer Modelling 51 (2010) 1071-1081

Artalejo J.R, Gomez C.:
Retrial Queueing Systems, A Computational Approach
Springer Verlag, Berlin, 2008

Artalejo J.R, Li Q.L.:
Performance analysis of a block-structured discrete-time retrial queue with state dependent arrivals

Artalejo J.R, Lopez-Herrero M.J.:
Cellular mobile networks with repeated calls operating in random environment

Chudhury G., Kalita S.:
A two-phase queueing system with repeated attempts and Bernoulli vacation schedule

Cordeiro J.D., Khaorufen J.P.:
The Unreliable M/M/1 Retrial Queue in a random Environment
Stochastic Models 28 (2012) 29-48

Dimitriou I.:
Performance Modeling of Cellular Systems with Finite Processor Sharing Queues in Random Environment, Guard Policy and Flex Retrial Users
Analytical and Stochastic Modelling Techniques and Applications
Volume 9081 of the series Lecture Notes in Computer Science (2015) 43-58
http://dx.doi.org/10.1007/978-3-319-18579-8_4

Kuboye B. M., Alese B. K., Adewale O. S., Falaki S.O.:
Multi-Level Access Priority Channel Allocation with Time Threshold in Global System for Mobile Communications (GSM) Networks
http://dx.doi.org/10.5815/ijitcs.2015.11.03

Mohan S., Printezis A., Alam F.M.:
A framework for modelling web-based applications with resource locking

Taleb S., Saggou H.:
Unreliable M/G/1 retrial queue with geometric loss and random reserved time

Vinayak R., Dharmaraja S.:
On the study of simultaneous service by random number of servers with retrial and preemptive priority
73. Modeling finite-source retrial queueing systems with unreliable heterogeneous servers and different service policies using MOSEL

Proceedings of ASMTA07, 14th International Conference on Analytical and Stochastic Modelling Techniques and Applications, Prague, Czech Republic (2007) 75-80
Co-authors: G. Bolch, H. de Meer. J. Roszik, P. Wuechne

Artalejo J.R, Gomez C.: Retrial Queueing Systems, A Computational Approach
Springer Verlag, Berlin, 2008

Gharbi N., Dutheillet C., Ioualalen M.: Colored stochastic Petri nets for modelling and analysis of multiclass retrial systems
Mathematical and Computer Modelling 49 (2009) 1436-1448

Gharbi N., Charabi L.: An Algorithmic Approach for Analysing Wireless Networks with Retrals and Heterogeneous Servers
Proceedings of the 7th International Conference on Wireless and Mobile Communications, ICWMC (2011) 151-156

International Journal on Advances in Networks and Services 5 (2012) 102-115

Gharbi N., Mokdad L.: Performance evaluation of telecommunication systems with repeated attempts and to server classis

Zreikat A.I.: Application of the MOSEL-2 Language in Performance and Modeling of Cellular Wireless Networks

74. Performance analysis of finite-source retrial queues with nonreliable heterogeneous servers

Journal of Mathematical Sciences 146 (2007) 6033-6038
Co-author: J. Roszik

Artalejo J.R, Gomez C.: Retrial Queueing Systems, A Computational Approach
Springer Verlag, Berlin, 2008

Mathematical and Computer Modelling 51 (2010) 1071-1081

Do V.T.: A Computational Algorithm for the CPP/M/c Retrial Queue
Annales Mathematicae et Informaticae 36 (2009) 61-69

Do V.T.: Modeling a resource contention in the management of virtual organizations
Information Sciences 180 (2010) 3108-3116

Do V.T.: A New Computational Algorithm for Retrial Queues to Cellular Mobile Systems with Guard Channels
Computers and Industrial Engineering 59 (2010) 865-872

- 36 -
Do V.T.: Multi-Server Markov Queueing Models: Computational Algorithms and ICT Applications
DSc Dissertation, Hungarian Academy of Sciences (2010)

Gharbi N., Dutheillet C., Ioualalen M.: Colored stochastic Petri nets for modelling and analysis of multiclass retrial systems
Mathematical and Computer Modelling 49 (2009) 1436-1448

Gharbi N., Charabi L.: An Algorithmic Approach for Analysing Wireless Networks with Retrials and Heterogeneous Servers
Proceedings of the 7th International Conference on Wireless and Mobile Communications, ICWMC (2011) 151-156

Gharbi N., Dutheillet C.: An algorithmic approach for analysis of finite-source retrial systems with unreliable servers
Computers and Mathematics with Applications 62 (2011) 2535-2546

Gharbi N.: Modeling and performance evaluation of small cell wireless networks with base station channels breakdowns
Proceedings of 8th International Conference on Wireless and Mobile Communications, Venice, Italy (2012) 42-48

International Journal on Advances in Networks and Services 5 (2012) 102-115

Gharbi N.: A numerical approach for performance evaluation of cellular mobile networks with channel breakdowns
Proceedings of ICN 2013, The 12th International Conference on Networks (2013) 190-196

Gharbi N., Mokdad L.: Performance evaluation of telecommunication systems with repeated attempts and to server classis

Gharbi N., Nemmouchi B., Mokdad L., Ben-Othman J.: The Impact of Breakdowns Disciplines and Repeated Attempts on Performances of Small Cell Networks
Journal of Computational Science (2014) http://dx.doi.org/10.1016/j.jocs.2014.02.001

Wang J., Zhao L., Zhang F.: Performance analysis of the finite source retrial queue with server breakdowns and repairs
Proceedings of the 5th International Conference on Queueing Theory and Network Applications, Beijing, 2010

Zhang F., Wang J.: Performance analysis of the retrial queue with finite number of sources and service interruptions
75. A queueing network model to study Proxy Cache Servers
   Co-author: T. Bérczes

Al-Hemiary E.H.:
Modelling and Performance Evaluation of Router Transparent Web cache Mode

76. Analysing web server performance models with the Probabilistic Model Checker PRISM
   RISC-Linz Report Series No. 08-17 (2008), Johannes Kepler University, Austria
   Co-authors: T. Bérczes, G. Guta, G. Kusper, W. Schreiner

Nikolov A.V.:
Effects of the coherency on the web cache proxy server

Xu-Jun L., Yue M., Dong Y.:
Analysis and Evaluation of Real-time Performance of Publish/Subscribe Communication Mode
Computer Engineering 36 (2010) 229-231

77. The impact of retrials on the performance of self-organizing systems
   Praxis der Informationsverarbeitung und Kommunikation 31 (2008) 29-33
   Co-authors: P. Wüechner, H. de Meer

Artalejo J.R.:
Accessible bibliography on retrial queues: Progress in 2000-2009
Mathematical and Computer Modelling 51 (2010) 1071-1081

78. Structured Markov Chains Arising from Finite-Source Retrial Queues with Orbital Search

Zhang F., Wang J.:
Stochastic analysis of a finite source retrial queue with spares and orbit search
Measurement, Modelling, and Evaluation of Computing Systems and Dependability and Fault Tolerance
Springer Lecture Notes in Computer Science Volume 7201 (2012 16-30

79. Homogeneous finite-source retrial queues with search of customers from the orbit
   Proceedings of 14th GI/ITG Conference MMB - Measurements, Modelling and Evaluation of
   Co-authors: P. Wüechner, H. de Meer

Ikhlef L., Lekadir O., Aissani D.:
MRSPN analysis of Semi-Markovian finite source retrial queues

Padmavathi I., Shopitia Lawrence A., Sivakumar B.:
A finite-source inventory system with postponed demands and modified M vacation policy
OPSEARCH 2015, http://dx.doi.org/10.1007/s12597-015-0224-7

Zhang F., Wang J.:
Stochastic analysis of a finite source retrial queue with spares and orbit search
Measurement, Modelling, and Evaluation of Computing Systems and Dependability and Fault Tolerance
Springer Lecture Notes in Computer Science Volume 7201 (2012 16-30
80. Analyzing a Proxy Cache Server Performance Model with the Probabilistic Model Checker PRISM  
*Proceedings of WWV'09, 5th Int'l Workshop on Automated Specification and Verification of Web Systems, Hagenberg, Austria (2009)*  
Co-authors: T. Bérczes, G. Guta, G. Kusper, W. Schreiner

Al-Hemiary E.H.:  
Modelling and Performance Evaluation of Router Transparent Web cache Mode  

Burger E, Reussner R.:  
Performance Certification of Software Components  
*Proceedings of the Workshop of Formal Engineering Approaches to Software Components and Architectures, FESCA’11, Saarbrucken, 2011*

Tarkoma S., Kutsov D., Savolainen P., Sarlahti P.:  
CAT: A Last Mile Protocol for Content-Centric Networks  
*Proceedings of the Workshop of ICC, 2011*

81. Investigating the mean response time in finite source retrial queues using the algorithm by Gaver, Jacobs and Latouche  
*Annales Mathematicae et Informaticae, 36 (2009) 143–160*  
Co-authors: P. Wüechner, H. de Meer

Ikhlef L., Lekadir O., Aissani D.:  
MRSPN analysis of Semi-Markovian finite source retrial queues  

82. Finite-source M/M/s retrial queue with search for balking and impatient customers from the orbit  
*Computer Networks* 53 (2009) 1264-1273  
Co-authors: P. Wüechner, H. de Meer

Amador J.:  
On the distribution of the successful and blocked events in retrial queues with finite number of sources  
*Proceedings of the 5th International Conference on Queueing Theory and Network Applications*  
Beijing, 2010, 15-22

Artalejo J.R.:  
Accessible bibliography on retrial queues: Progress in 2000-2009  

Artalejo J.R., Lopez-Herreo M.J.:  
The single server retrial queue with finite population: a BSDE approach  

Bérczes T., Horváth Á.:  
A Finite-Source Queuing Model for Spectrum Renting in Mobile Cellular Networks  
*Proceedings of the 10th International Conference ELEKTRO 2014, Zilina, Slovakia, 2014, 26-30*  
http://dx.doi.org/10.1109/ELEKTRO.2014.6847865

Do V.T.:  
M/M/1 retrial queue with working vacations  
Do V.T, Chakka R.: 
An efficient method to compute the rate matrix for retrial queues with large number of servers 

Do V.T.: 
A New Computational Algorithm for Retrial Queues to Cellular Mobile Systems with Guard Channels 
Computers and Industrial Engineering 59 (2010) 865-872

Do V.T.: 
Multi-Server Markov Queueing Models: Computational Algorithms and ICT Applications 
DSc Dissertation, Hungarian Academy of Sciences (2010)

Do V.T, Chakka R.: 
Generalized QBD Processes, Spectral Expansion and Performance Modeling Applications 
Next Generation Internet, LNCS 5223 (2011) 612-641

Do V.T, Do N.H., Zhang J.: 
An Enhanced Algorithm to Solve Multiserver Retrial Queueing Systems with Impatient Customers 

Duan Z., Baykal-Gürsoy M.: 
A note on infinite-server Markov-modulated and single-server retrial queues 

Horváth Á., Bérczes T.: 
Spectrum renting with two finite source pools in mobile cellular networks 
Communications 1 (2015) 4-11

Ilkhef L., Lekadir O., Aissani D.: 
MRSPN analysis of Semi-Markovian finite source retrial queues 

Kuboye B. M., Alese B. K., Adewale O. S., Falaki S.O.: 
Multi-Level Access Priority Channel Allocation with Time Threshold in Global System for Mobile Communications (GSM) Networks 
http://dx.doi.org/10.5815/iijtcs.2015.11.03

Lawrence A.S., Sivakumar B., Arivarignan G.: 
A perishable inventory system with service facility and finite source 
Applied Mathematical Modeling 37 (2013) 4771-4786

Padmavathi I., Shophia Lawrence A., Sivakumar B.: 
A finite-source inventory system with postponed demands and modified M vacation policy 
OPSEARCH 2015, http://dx.doi.org/10.1007/s12597-015-0224-7

Phung-Duc T., Kawanishi K.: 
Performance analysis of call centers with abandonments, retrial and after-call work 
Performance Evaluation (2014) http://dx.doi.org/10.1016/j.peva.2014.03.001

Yadavalli V.S.S., Anbazhaga N., Jeganathan K.: 
A Retrial Inventory System with Impatient Customers 
Applied Mathematics and Information Sciences 9 (2015) 637-650 
http://dx.doi.org/10.12785/amis/090212
Zhao F., Li Y.P., Huang G.H.:
A queue-based interval-fuzzy programming approach for electric-power system planning

Zhang F., Wang J.:
Stochastic analysis of a finite source retrial queue with spares and orbit search
Measurement, Modelling, and Evaluation of Computing Systems and Dependability and Fault Tolerance
Springer Lecture Notes in Computer Science Volume 7201 (2012) 16-30

83. Tool supported reliability analysis of finite-source retrial queues

Artalejo J.R., Lopez-Herreo M.J.:
The single server retrial queue with finite population: a BSDE approach

Gharbi N., Dutheillet C.:
An algorithmic approach for analysis of finite-source retrial systems with unreliable servers
Computers and Mathematics with Applications 62 (2011) 2535-2546

Gharbi N.:
Modeling and performance evaluation of small cell wireless networks with base station channels breakdowns
Proceedings of 8th International Conference on Wireless and Mobile Communications,
Venice, Italy (2012) 42-48

Gharbi N.:
A numerical approach for performance evaluation of cellular mobile networks with channel breakdowns
Proceedings of ICN 2013, The 12th International Conference on Networks (2013) 190-196

Gharbi N., Nemmouchi B., Mokdad L., Ben-Othman J.:
The Impact of Breakdowns Disciplines and Repeated Attempts on Performances of Small Cell Networks
Journal of Computational Science (2014) http://dx.doi.org/10.1016/j.jocs.2014.02.01

84. Tool supported performability investigations of heterogeneous finite-source retrial queues

Co-author: C.S. Kim

Gharbi N., Dutheillet C.:
An algorithmic approach for analysis of finite-source retrial systems with unreliable servers
Computers and Mathematics with Applications 62 (2011) 2535-2546

Gharbi N.:
Modeling and performance evaluation of small cell wireless networks with base station channels breakdowns
Proceedings of 8th International Conference on Wireless and Mobile Communications,
Venice, Italy (2012) 42-48

Gharbi N.:
A numerical approach for performance evaluation of cellular mobile networks with channel breakdowns
Proceedings of ICN 2013, The 12th International Conference on Networks (2013) 190-196

Gharbi N., Nemmouchi B., Mokdad L., Ben-Othman J.:
The Impact of Breakdowns Disciplines and Repeated Attempts on Performances of Small Cell Networks
Journal of Computational Science (2014) http://dx.doi.org/10.1016/j.jocs.2014.02.01

- 41 -
85. Queueing Theory and its Applications

Vol. 1 9-30

Jayaraman R., Matis T.:  
Finite population models – Single station queues  

Jeganathan K.:  
Finite source Markovian inventory system with bonus service for certain customers  

Joan D.R.:  
Fundamental Concepts of Queuing Theory and Their Applications  
i-Manager's Journal on Mathematics 3.3 (2014) 1-6

Kavitha J., Palaniammal S.:  
Efficient Path Selection and Data Transmission Using Queue in Open Shortest Path First  
International Journal of Computer Science and Application 3 (2014) 139-144  
http://dx.doi.org/10.14355/ijcsa.2014.0304.01

Osahenwemwen O., Odiaoe O.F.:  
Effective Utilization of Mobile Call Center Using Queueing Models  
International Journal of Engineering and Technology 8 (2016) 107-111  
http://dx.doi.org/10.7763/IJET.2016.V8.867

Patil R., Singh R.K.:  
Scaling in Cloud Computing  
International Journal of Advanced Research, IJOAR.org 1 (2013),  

Rahmoune F., Aissani D.:  
Quantitative Stability Estimates in Queues with Server Vacation  
http://dx.doi.org/10.1007/s10958-014-1932-x

Sharma A., Barua P.B.:  
Application of Queuing Theory in a Small Enterprise  

Ward S., Gittens M.:  
A Real-time Application to Predict and Notify Students about the Present and Future Availability of Workspaces on a University Campus  
Proceedings of the 2015 ACM Annual Conference on SIGUCCS 67-74  
http://dx.doi.org/10.1145/2815546.2815563

Vasileva L.:  
Анализа и примена на некои од квантитативните методи во деловното одлучување  
86. Performance analysis of a two-server heterogeneous retrial queue with threshold policy
   **Quality Technology and Quantitative Management** 8 (2011) 211-236
   Co-author: D. Efrosinin

   Choudhury G., Tadj L., Deka M.:
   An Unreliable Server Retrial Queue with Two Phases of Service and General Retrial Times
   Under Bernoulli Vacation Schedule
   Quality Technology and Quantitative Management 12 (2015) 433-460

   Gharbi N., Charabi L.:
   Wireless Networks with Retrials and Heterogeneous Servers: Comparing Random Server and
   Fastest Free Server Disciplines
   International Journal on Advances in Networks and Services 5 (2012) 102-115

   Gharbi N., Mokdad L.:
   Performance evaluation of telecommunication systems with repeated attempts and to server classis
   Proceedings of SPECTS 2013, Symposium on Performance Evaluation of Computer and
   Telecommunication Systems, Toronto, Canada (2013) 22-29

   Jailaxmi V., Arumuganathan R.:
   Analysis of a retrial queue with multiple vacations and state dependent arrivals
   Quality Technology & Quantitative Management 10 (2013) 57-73
   RAIRO-Oper. Res. 49 (2015) 619-634, [http://dx.doi.org/10.1051/ro/2014060](http://dx.doi.org/10.1051/ro/2014060)

   Lin Y., Huang C.:
   Stochastic Flow Network Reliability with Tolerable Error Rate
   Quality Technology & Quantitative Management 10 (2013) 57-73

   Purohit G.N., Jain M., Rani S.:
   M/M/1 retrial queue with constant retrial policy, unreliable server, threshold based recovery and state dependent
   arrivals
   Applied Mathematical Sciences 6 (2012) 1837-1846

   Ramasany S., Daman O.A., Sani S.:
   An M/G/2 queue where customers are served subject to a minimum violation of FCFS queue discipline

   Sani S., Daman O.:
   The M/G/2 Queue with Heterogeneous Servers Under a Controlled Service Discipline:
   Stationary Performance Analysis
   International Journal of Applied Mathematics 45 (2015) 4-14

   Yang D.Y., Ke J.C., Wu C.H.:
   The multi-server retrial system with Bernoulli feedback and starting failures arrivals

87. Stochastic analysis of a controlled queue with heterogeneous servers and constant retrial rate
   **Information Processes** 11 (2011) 114-139
   Co-author: D. Efrosinin

   Zhang F., Wang J.:
   Stochastic analysis of a finite source retrial queue with spares and orbit search
   Measurement, Modelling, and Evaluation of Computing Systems and Dependability and Fault Tolerance
   Springer Lecture Notes in Computer Science Volume 7201 (2012 16-30
88. Modeling wireless sensor networks using finite-source retrial queues with unreliable orbit
   Co-authors: P. Wuechner, H. de Meer

   Boualem M.:
  Insensitive Bounds for the Stationary Distribution of a Single Server Retrial Queue with Server Subject to Active Breakdowns

   Boualem M., Cherfaoui M., Djellab N., Aissani D.:
   Stochastic Analysis of an M/G/1 Retrial Queue with FCFS
   http://dx.doi.org/10.1007/978-3-319-22476-3_8

   Dimitriou I.:
   Analysis of a priority retrial queue with dependent vacation scheme and application to power saving in wireless communication systems

   Gharbi N., Charabi L.:
   Wireless Networks with Retrials and Heterogeneous Servers: Comparing Random Server and Fastest Free Server Disciplines
   International Journal on Advances in Networks and Services 5 (2012) 102-115

   Gharbi N.:
   A numerical approach for performance evaluation of cellular mobile networks with channel breakdowns
   Proceedings of ICN 2013, The 12th International Conference on Networks (2013) 190-196

   Gharbi N., Mokdad L.:
   Performance evaluation of telecommunication systems with repeated attempts and to server classis

   Gharbi N., Nemmouchi B., Mokdad L., Ben-Othman J.:
   The Impact of Breakdowns Disciplines and Repeated Attempts on Performances of Small Cell Networks
   Journal of Computational Science (2014) http://dx.doi.org/10.1016/j.jocs.2014.02.01

   Gharbi N.:
   Using GSPNs for Performance Evaluation of Networks with Repeated Calls and Different Vacation Policies
   Proceedings of the 10th International Conference on Wireless and Mobile Communications (ICWMC) (2014) 43-49

89. Tool supported modeling of sensor communication networks by using finite-source priority retrial queues
   Co-authors: T. Bérczes, P. Orosz, P. Moyal, Limnios N., Georgiadis S.

   Suto J., Oniga S., Buchman A.:
   Real time human activity monitoring

   Wuechner P.:
   Energy-Efficient and Timely Event Reporting Using Wireless Sensor Networks
   PhD Thesis, Faculty of Mathematics and Informatics, University of Passau, 2013
90. A contribution to modeling sensor communication networks by using finite-source queueing systems
Proceedings of 8th IEEE International Symposium on Applied Computational Intelligence and Informatics, Timisoara, Romania (2013) 89-93, DOI:10.1109/SACI.2013.6608944
Co-authors: T. Bérczes, B. Almási. A. Kuki

Gál Z., Balla T., Karsai A.Sz.: Sensor Based Analysis of the WiFi Interference

91. Spectral Expansion Solution Methodology for QBD-M Processes and Applications in Future Internet Engineering
Advanced Computational Methods for Knowledge Engineering, Studies in Computational Intelligence
Springer International Publishing Vol. 479 (2013) 131-142
Co-authors: T. Do, R. Chakka

Sallai Gy.: Chapters of Future Internet Research

92. Modeling the RF Communication in Sensor Networks by using Finite-Source Retrial Queueing System
Transactions on Automatic Control and Computer Science 58(72) (2013) 183-189
Co-authors: T. Bérczes, B. Almási, A. Kuki

Buchman A., Erdei A., Lung C.: Indoor localisation method based on existing WLAN infrastructure: A correlation based approach

93. A new finite-source queueing model for mobile cellular networks applying spectrum renting
Co-authors: T. V. Do, P. Wuchner, T. Bérczes. H. de Meer

Dragieva V.: Steady state analysis of the M/G/1//N queue with orbit of blocked customers

Liang C., Luh H.: Solving two-dimensional Markov chain model for call centers

94. M/M/1 retrial queue with working vacations and negative customer arrivals
International Journal of Advanced Intelligence Paradigms 6(2014) 52-65
Co-authors: T. V. Do, D. Papp, R. Chakka, J. Wang

Jain M., Bhagat A.: Embedded Markov chain approach to retrial queue with vacation, phase repair and multioptional services
OPSEARCH 52(2015) 782-809 http://dx.doi.org/10.1007/s12597-015-0207-8
Razumchik R.V.:
Algebraic method for approximating joint stationary distribution in finite capacity queue with negative customers and two queues
Informatics and Applications 9 (2015) 68-77
http://dx.doi.org/10.14357/1992264150407

95. Finite-Source Queueing Systems and Their Applications
http://irh.inf.unideb.hu/user/jsztrik/research/fsqreview.pdf

Amador J.:
On the distribution of the successful and blocked events in retrial queues with finite number of sources
Proceedings of the 5th International Conference on Queueing Theory and Network Applications
Beijing, 2010, 15-22

Ausin M.:
Queues in Reliability

Hague L., Armstrong M.J.:
A survey of the machine interference problem

Iravani S., Kolflal B.:
When does the cmu rule apply to finite-population queueing systems ?

Jayaraman R., Matis T.:
Finite population models – Single station queues

Jolai F., Asadzadeh S.M., Taghizadeh M.R.:
Performance estimation of an email contact center by a finite source discrete time Geo/Geo/1 queue with disasters

Khorram E.:
An Optimal Queuing Model by Dynamic Numbers of Repairman in Finite Population Queuing System

Lawrence A.S., Sivakumar B., ArivarignanG.:
A perishable inventory system with service facility and finite source

Liag W.K.:
Analysis of Make(Repair)-to-Stock Queues with State-Dependent Arrival Rates

Liag W.K., Balciglu B., Svaluto R.:
Scheduling policies for a repair shop problem

Loeb H.P.:
Application-driven exploration of a programmable platform for Wireless LAN
PhD Thesis, University of Bielefeld, Germany, 2012
Second International Conference on Computational Intelligence, Modelling and Simulation, CIMSIM, 2010, 507-512


Second International Conference on Intelligent Systems, Modelling and Simulation, ISMS, 2011, 386-391

Fifth Asia Modelling Symposium (2011) 243-247, IEEE DOI 10.1109/AMS.2011.52

Third International Conference on Computational Intelligence, Communication Systems and Networks (2011) 126-131, IEEE DOI 10.1109/CICSyN.2011.37

Oguike O.E., Agu M.N., Echezona S.C.: Modeling variation of waiting time of distributed memory heterogeneous parallel computer system using recursive models

Pardo M.J., Fuente D.: Optimal selection of the service rate for a finite input source fuzzy queueing system


Sahba P., Balcioglu B., Banjevic D.: Policies for a spare parts provisioning problem
University of Toronto

Vasiliadis G.: Transient Analysis of the M/M/k/N/N Queue using a Continuous Time Homogeneous Markov System with Finite State Size Capacity
Communications in Statistics – Theory and Methods 43 (2014) 1548-1562

Vasiliadis G.: Transient analysis of a finite source discrete-time queueing system using homogeneous Markov system with state size capacities (HMS/c)
http://dx.doi.org/10.1080/03610926.2013.863931

Winands E.M.: A finite-source feedback queueing network as a model for the IEEE 802.11 Distributed Coordination Function
96. Basic Queueing Theory

http://irh.inf.unideb.hu/user/jsztrik/education/16/SOR_Main_Angol.pdf

Bousia A., Kartsakli E., Antonopoulos A.:
Game theoretic approach for switching off base stations in multi-operator environments
Proceedings of 2013 IEEE International Conference on Communications (ICC), Budapest (2013) 4420-4424

Eze E., Odunukwe A.:
On Application of Queuing Models to Customers Management in Banking System

Fullerton G., Dick C.T., Hwang T., Ouyang Y.:
Exchange Point Delay and Mode Shift Associated with Regional Deployment of Alternative Locomotive Technology on the North American Line-Haul Freight Network

Goswami V., Patra S.S., Mund G.B.:
Optimization of QoS parameters through flexible resource scheduling in finite population cloud environment

Guzman W., Young L., Peszynski K.:
Departure Side Platforms: a road congestion mitigation measure
Proceedings of the Conference of Australian Institutes of Transport Research (CAITR) – 2015, 1-13

Hayes D.A., Ferlin S., Welzl M.:
Practical passive shared bottleneck detection using shape summary statistics
2014 IEEE 39th Conference on Local Computer Networks (LCN) 150-158
http://doi.ieeecomputersociety.org/10.1109/LCN.2014.6925767

Ismaeel A.G.:
Effective technique for allocating servers to support cloud using GPS and GIS
Proceedings of Science and Information Conference (SAI), London (2013) 934-939

Jamali V., Zlatanov N., Schober R.:
Bidirectional Buffer-Aided Relay Networks With Fixed Rate Transmission—Part I: Delay-Unconstrained Case
http://dx.doi.org/10.1109/TWC.2014.2365818

Li R., Li M.:
Two rapid test methods for assessing transmission time reliability of a multiple-channel network with Poisson arrival and service rates
http://dx.doi.org/10.1016/j.iaeue.2015.02.006

Liu F., Zhang H., Chen Y., Huang Z., Gu H.:
WRH-ONoC: A wavelength-reused hierarchical architecture for optical Network on Chips
http://dx.doi.org/10.1109/INFOCOM.2015.7218574

Logota E., Mantas G., Rodriguez J., Marques H.:
Analysis of the Impact of Denial of Service Attacks on Centralized Control in Smart Cities
http://dx.doi.org/10.1007/978-3-319-18802-7_13
Masek J., Camaj J., Nedeliakova E.:
Application the Queueing Theory int he Warehouse Optimization
International Journal of Social, Behavioral, Educational, Economic, Business and Industrial Engineering 9 (2105) 3483-3487

Mbachu V., M., Onyechi P., Ogunoh V.A.:
Development Of A Decision Support System In Determining Optimum Number Of Server For Nnpc Mega Petroleum Stations

Melnychenko O.V.:
Application of Methods of the Waiting Line Theory in Economic Analysis of Operations with Electronic Money
Problems of Economy 1 (2105) 274-279

Михнов Д.К., Курлина Е.А.
Исследование моделей архитектур серверных приложений корпоративных информационных систем
Восточно-Европейский журнал передовых технологий 2/2/68 (2014) 34-38

Monrat G., Kumwilaisak W., Saengudomlert P.:
Distributive wireless network resource allocation with nash equilibrium and internal-regret-learning of non-stationary actions
Proceedings of Electrical Engineering Congress (iEECON), 2014 International
http://dx.doi.org/10.1109/iEECON.2014.6925916

Sarddar D., Roy S., Bose R.:
Queueing Based Edge Server Selection in Content Delivery Network Using Haversine Distance

Sathiyabalan P., Vidhya V.:
Queuing theory and it's impact on various applications - a review

Sharma A.K, Sharma K.G.:
Queueing Theory Approach with Queueing Model: A Study

Tripathi R., Gautam B.:
Dynamic internet pricing and bandwidth guarantees with Nash equilibrium
Network Operations and Management Symposium (APNOMS), 2014 16th Asia-Pacific,
http://dx.doi.org/10.1109/APNOMS.2014.6996519

Tripathi R., Gautam B.:
Pricing with Bandwidth Guarantees for Clients with multi-ISP Connections
ICDCN 2015, Goa, India
http://dx.doi.org/10.1145/2684464.2684497

Uzoh J., C., Ossamulu H., O., Inyiama H., C. B.:
Web Application Queueing Model

Total: 540, h index = 12