

Curriculum Vitae

Dr. Vasilis P. Koutras

Lecturer

Stochastic Modeling

Department of Financial and Management Engineering

University of the Aegean

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Birth Date: 29/08/78

Lecturer

Department of Financial and Management Engineering

University of the Aegean

Research Interests

Stochastic modeling of highly available and reliable systems. Stochastic modeling of software rejuvenation, computer systems performability indicators, Markov and Semi-Markov processes, preventive maintenance, operations research.

Education

- 2005-2010** PhD Diploma, Department of Financial and Management Engineering, University of the Aegean, Chios, Greece. Title of PhD thesis: **Optimizing Performance and Dependability of Computer Systems: Software Rejuvenation Stochastic Modeling.**
- 2002 - 2004** MSc “**Mathematical Modeling in Physical Sciences and New Technologies**”, Department of Mathematics, University of the Aegean, Samos, Greece MSc thesis in System Reliability.
- 1997 - 2002** BSc in **Mathematics**, Department of Mathematics, University of Patras, Greece

Academic Positions

- July 2014 – Today** **Lecturer** at the Department of Financial and Management Engineering, University of the Aegean
- Teaching:*
- Ac. Year 2015-16, 2014-15:
- Operations Research II, Modelling Analysis and Design of Stochastic Systems, Statistics, Stochastic Models*
- Oct. 2005 – July 2014** **1. Adjunct Faculty Member** at Department of Financial and Management Engineering, University of the Aegean
- Teaching:*
- Ac. Year 2012-13, 2013-14:
- Operations Research II, Modelling Analysis and Design of Stochastic Systems, Statistics, Stochastic Models, System Reliability*
- Ac. Year 2012-2013:
- Operations Research II, Modelling Analysis and Design of Stochastic Systems, Statistics, Stochastic Models*

Ac. Year 2010-11, 2011-12:

Operations Research II, Queueing Theory, Statistics, Stochastic Models

Ac. Year 2006-07, 2007-08, 2008-09, 2009-10:

Operations Research II*, Probability Models*, Statistics LAB

Ac. Year 2006-07, 2007-08:

Operations Research II*, System Reliability*, Statistics LAB

Ac. Year 2005-06:

Operations Research II*

* under the supervision of Associate Professor A.N. Platis

2. Research Associate

Department of Financial and Management Engineering, University of the Aegean
Postgraduate Program: Economics and Management for Engineers:

Ac. Year 2005-06, 2006-07, 2007-08, 2011-12, 2012-13, 2013-14, 2015-16:

Seminar in Statistics

Oct. 2015– Today

Hellenic Open University

School of Science & Technology

Academic Staff, PostGraduate Programme: Quality Assurance Msc,

Course: DIP50 Basic Tools and Methods for Quality Control

Oct. 2013– Jul. 2014

Hellenic Open University

School of Science & Technology

Academic Staff, PostGraduate Programme: Quality Assurance Msc,

Course: DIP50 Basic Tools and Methods for Quality Control

Oct. 2009– Today

Member of the **Reliability Engineering Laboratory (REL)**, *Department of Financial and Management Engineering, University of the Aegean*

Research Activity

Mar. 2012 – Sep 2015

University of the Aegean

Department of Financial and Management Engineering

RELab.-(Reliability Engineering Laboratory)

Researcher in *European Funding Project:*

THALES: “Analysis of Supply and Production Systems: an Integrated Approach” (ASPASIA),

co-financed by the European Union (European Social Fund – ESF) and Greek national funds through the Operational Program "Education and Lifelong Learning" of the National Strategic Reference Framework (NSRF) - Research Funding Program: Thales. Investing in knowledge society through the European Social Fund

PhD Advisory Comitee

- Advisory Comitee: **G. Kokkotas PhD Thesis**. Temporary Title: **Robust Supply Chains**, Department of financial and Management engineering, University of the Aegean (2014-).

Theses Supervision

1. P. Diamantopoulos, “**Stochastic Modeling of Cloud Computing Service Reliability**”, Department of Financial and Management engineering, University of the Aegean, March 2011.

2. A. Achiladelli, "*Performace measures of a retrial queue with redundancy*", Department of Financial and Management engineering, University of the Aegean, June 2013.
3. I. Kavoura, "*Yield Management: Case study for effective income management in asirlines*", Department of Financial and Management engineering, University of the Aegean, January 2014.
4. N. Bakovasilis, "*Heuristic Algorithms for solving resource optimization problems*", Department of Financial and Management engineering, University of the Aegean, September 2014.
5. G. Vallas, "*A semi-Markov Model for the Realiability of Telecommunications Systems*", Department of Financial and Management engineering, University of the Aegean, June 2014.
6. A. Manatos, "*Reliability Stochastic Modeling of Repairable Mechanical Systems*", Department of Financial and Management engineering, University of the Aegean, June 2014.
7. A. Kyriakou, "*The statistical tool PERT and Monte Carlo simulation in Engineering Project Management*", Department of Financial and Management engineering, University of the Aegean, (in progress).
8. S. Doudoumi, "*Reliability analysis for a subsea blowout preventer control system*", Department of Financial and Management engineering, University of the Aegean, (in progress).
9. A. Kadrefi, "*Availability Modeling for Mobile Cloud Computing*", Department of Financial and Management engineering, University of the Aegean, (in progress).
10. A. Savvelis, "*Stochastic Modelin usin the Supplementary Variable Technique*", Department of Financial and Management engineering, University of the Aegean, (in progress).
11. T. Mavraganis, "*Implementing Total Quality Management principles in the Banking Sector, the use of this model as leverage tool in the Training Policy and the Development of Human Resources, the prospects and the obstacles*", Hellenic Open University, MSc in Quality Assurance, May 2014.
12. I. Marougas, "*Service Quality and Customer Satisfaction in a Telecommunication Service Provider in Greece*", Hellenic Open University, MSc in Quality Assurance, September 2014.
13. A. Horianopoulou, "*Investigating the principles of total quality management in a financial institution*", Hellenic Open University, MSc in Quality Assurance, September 2014.
14. E. Houstoulaki, "*The quality management and the necessity of the implementation of iso 9000 and haccp in organic farming*", Hellenic Open University, MSc in Quality Assurance, September 2014.

Scholarships

- May. – Aug. 2008** Scholarship from **State Scholarship Foundation.** for ERASMUS exchange PhD students in: *Universite de Techologie de Compiegne, Centre de Recherche de Royallieu , LMAC, Compiegne, France.*
- Jul. 2004** Scholarship from **State Scholarship Foundation** for distinction in MSc "**Mathematical Modeling in Physical Sciences and New Technologies**" Department of Mathematics, University of the Aegean.

Languages

- | | |
|----------------|------------|
| English | Excellent |
| French | Elementary |

Publications

International Journals

1. V. P. Koutras and A. N. Platis, A. N. User-perceived Availability of a Software Rejuvenation Model with Recovery Time Omission. *Quality and Reliability Engineering International*, doi: [10.1002/qre.1862](https://doi.org/10.1002/qre.1862). (2015).
2. V.P. Koutras, S. Malefaki, A.N. Platis. Rejuvenation Effects on the Grid Environment Performance with Response Time Delays using Monte Carlo Simulation, *Simulation Modelling Practice and Theory*, Vol. 40, Pages 176-191 (2014). doi: <http://dx.doi.org/10.1016/j.simpat.2013.10.001>
3. V.P. Koutras, A. N. Platis, G. A. Gravvanis. Software Rejuvenation and Resource Reservation Policies for Optimizing Server Resource Availability using Cyclic Non-Homogeneous Markov Chains, *Applied Stochastic Models in Business and Industry*, Vol. 29(1), Pages 61-78 (2014). doi: [10.1002/asmb.945](https://doi.org/10.1002/asmb.945).
4. V.P. Koutras, A.N. Platis. Semi-Markov Performance Modeling of a Redundant System with Partial, Full and Failed Rejuvenation, *International Journal of Critical Computer Based Systems, Inderscience Publishers*, Vol. 1, (1/2/3), Pages 59-85, (2010). doi: [10.1504/IJCCBS.2010.031909](https://doi.org/10.1504/IJCCBS.2010.031909)
5. V.P. Koutras, A.N. Platis, G.A. Gravvanis. Availability and Performance on a Grid Computing Environment with Software Rejuvenation Based on Approximate Inverse Preconditioning. HERMIS: *The International Journal of Computer Mathematics and its Applications*, Elias A. Lipitakis (Editor-in-Chief), Vol. 11, Pages 69-86, (2010).
6. V.P. Koutras, A.N. Platis, G.A. Gravvanis. Optimal Server Resource Reservation Policies for Priority Classes of Users under Cyclic Non-Homogeneous Markov Modeling, *European Journal of Operational Research*, Vol. 198, Pages 545-556, (2009). doi: <http://dx.doi.org/10.1016/j.ejor.2008.09.031>
7. V.P. Koutras, A.N. Platis, G.A. Gravvanis, Software Rejuvenation for Resource Optimization Based on Explicit Approximate Inverse Preconditioning, *Applied Mathematics and Computation*, Vol. 189(1), John L. Casti, Melvin Scott (eds.)© 2007, Elsevier, Pages 163-177, (2007). doi: <http://dx.doi.org/10.1016/j.amc.2006.11.056>
8. V.P. Koutras, A. N. Platis, G. A. Gravvanis. On the Optimization of Free Resources Using Non-Homogeneous Markov Chain Software Rejuvenation Model. *Reliability Engineering and System Safety*, Vol. 92(12), Pages 1724–1732, (2007). doi : <http://dx.doi.org/10.1016/j.ress.2006.09.017>

Book Chapters

9. V.P. Koutras. Two-Level Software Rejuvenation Model with Increasing Failure Rate Degradation, *Dependable Computer Systems, Advances in Intelligent and Soft Computing Vol. 97*, Springer-Verlag Berlin Heidelberg, Pages 101-115, (2011). doi: [10.1007/978-3-642-21393-9_8](https://doi.org/10.1007/978-3-642-21393-9_8)
10. I. I. Stamoulis, A. N. Platis, V. P. Koutras. Planning of electric power distribution networks with reliability criteria. *Theory and Engineering of Complex Systems and Dependability, Advances in Intelligent Systems and Computing, Online ISBN 978-3-319-19216-1*, W. Zamojski et al. (eds), Springer International Publishing, Volume 365, Pages 455-464 , (2015). doi: [10.1007/978-3-319-19216-1_43](https://doi.org/10.1007/978-3-319-19216-1_43).

International Conferences Proceedings (with review procedure)

11. S. Malefaki, V.P. Koutras & A.N. Platis, Optimizing the availability and the operational cost of a periodically inspected multi-state deteriorating system with condition based maintenance policies, In Proc of the 9th *International Conference on Availability, Reliability and Security*, September 2014, University of Fribourg, Switzerland, Fribourg, Switzerland, Pages 403-411, (2014).
12. I.G. Sideratos, A. N. Platis, V. P. Koutras, N. Ampazis. Reliability analysis of a two-stage Goel-Okumoto and Yamada S-shaped model, In *Proceedings of the Ninth International Conference on Dependability and Complex Systems DepCoS-RELCOMEX*. June 30 – July 4, 2014, Brunów, Poland, *Advances in Intelligent Systems and Computing*, Volume 286, Pages 393-402, (2014).
13. T.V. Tzioutzias, A. N. Platis, V. P. Koutras, Modeling the Reliability and the Performance of a Wind Farm Using Cyclic Non-Homogenous Markov Chains, In *Proc. of Probabilistic Safety Assessment & Management* conference (PSAM12), June 2014, United States, Honolulu, Hawaii, (2014), **accepted**.

14. P. Diamantopoulos, V.P. Koutras, A.N. Platis. Cloud computing service reliability modeling with batch arrivals and retrial queues, *Safety, Reliability and Risk Analysis: Beyond the Horizon-Steenbergen et al (Eds), 2014 Taylor & Francis Group, London, ISBN 978-1-138-00123-7*, Pages 2941-2949, (2014).
15. A.N. Platis, V.P. Koutras, S. Malefaki. Achieving high availability levels of a deteriorating system by optimizing condition based maintenance policies, *Safety, Reliability and Risk Analysis: Beyond the Horizon-Steenbergen et al (Eds), 2014 Taylor & Francis Group, London, ISBN 978-1-138-00123-7*, Pages 829-837, (2014).
16. V.P. Koutras, A.N. Platis, C.S. Salagaras. Resource Availability Optimization for Green Courier Service, *2013 IFAC Conference on Manufacturing Modeling, Management, and Control (MIM 2013)*, Pages 1654-1659, (2013).
17. N. S. Thomaidis, C.S. Salagaras, V. Vassiliadis, V.P. Koutras, A.N. Platis, G. Dounias. Evolutionary Algorithms for Solving Resource Availability Optimization Problems related to Client Service of Different Priority Classes. *In Procs of 2nd International Symposium and 24th National Conference on Operational Research*, ISBN: 978-618-80361-1-6, Athens, Greece, September 26-28, (2013), Pages 252-257.
18. S. Malefaki, V.P. Koutras, A.N. Platis. Modeling Software Rejuvenation on a Redundant System Using Monte Carlo Simulation, *2012 IEEE 23rd International Symposium on Software Reliability Engineering Workshops (ISSREW)*, Dallas TX, USA, Pages 277-282, (2012), doi: [10.1109/ISSREW.2012.89](https://doi.org/10.1109/ISSREW.2012.89).
19. V.P. Koutras, A.N. Platis, N. Limnios. Performance Estimation of a System under Minimal, Perfect and Failed Rejuvenation, *11th International Probabilistic Safety Assessment and Management Conference and the Annual European Safety and Reliability Conference 2012 (PSAM11 & ESREL12)*, Vol. 3, Pages: 1859-1868, (2012).
20. V.P. Koutras, A.N. Platis. Applying Partial and Full Rejuvenation in Different Degradation Levels, *The 22nd annual International Symposium on Software Reliability Engineering (ISSRE 2010)-3rd Workshop on Software Aging and Rejuvenation (WoSAR 2011)*, Hiroshima, Japan, Pages 20-25, (2011). doi: [10.1109/WoSAR.2011.14](https://doi.org/10.1109/WoSAR.2011.14)
21. V.P. Koutras, S. Malefaki, A.N. Platis. A Monte Carlo Simulation Based Dependability Analysis of a non-Markovian Grid Computing Environment with Software Rejuvenation, *Advances in Safety, Reliability and Risk Management - Proceedings of the European Safety and Reliability Conference, ESREL 2011*, Pages: 1959-1966, (2011), doi: [10.1201/b11433-276](https://doi.org/10.1201/b11433-276).
22. E.C. Grigoriadou, V.P. Koutras, A. Platis. Semi-Markov coverage modeling and optimal maintenance policies of an automated restoration mechanism, *Advances in Safety, Reliability and Risk Management - Proceedings of the European Safety and Reliability Conference, ESREL 2011*, Pages: 949-956, (2011), doi: [10.1201/b11433-133](https://doi.org/10.1201/b11433-133).
23. A.N. Platis, V.P. Koutras. Software Rejuvenation on a PKI Infrastructure, *The 21st annual International Symposium on Software Reliability Engineering (ISSRE 2010)-2nd Workshop on Software Aging and Rejuvenation (WoSAR 2010)*, San Jose, USA, November 1 – 4, *IEEE Xplorer, in press*, (2010), doi: [10.1109/WOSAR.2010.5722102](https://doi.org/10.1109/WOSAR.2010.5722102).
24. V.P. Koutras, A.N. Platis, N. Limnios. Dependability Measures Maximum Likelihood Estimation for a Redundant System with Minimal, Perfect and Failed Rejuvenation, *Proceedings of European Safety and Reliability Conference, ESREL 2010*, Pages. 1553-1560, (2010).
25. V.P. Koutras, C.S. Salagaras, A.N. Platis. Software Rejuvenation for Higher Levels of VoIP Availability and Mean Time To Failure, *4th International Conference on Dependability of Computer Systems (DepCoS-RELCOMEX '09)*, © 2009, IEEE Computer Society Press, Pages 99-106, (2009), doi: <http://doi.ieeecomputersociety.org/10.1109/DepCoS-RELCOMEX.2009.21>.
26. V.P. Koutras, A.N. Platis. Modeling Resource Availability and Optimal Fee for Priority Classes in a Website, *Proceedings of European Safety and Reliability Conference (ESREL 2009)*, Pages 1191-1198, (2009).
27. J.B. Violentis, A.N. Platis, G.A. Gravvanis, V.P. Koutras. Electrical Substation Efficient Maintenance Policies Based On Semi-Markov Modeling and Approximate Inverse Preconditioning, *Proceedings of The 9th Hellenic European Research on Computer Mathematics & its Applications Conference (HERCMA 2009)*, (2009).
28. P.K. Saravakos, G.A. Gravvanis, V.P. Koutras, A.N. Platis. A Comprehensive Approach to Software Aging and Rejuvenation on a Single Node Software System, *Proceedings of The 9th Hellenic European Research on Computer Mathematics & its Applications Conference (HERCMA 2009)*, (2009).

29. V.P. Koutras, A.N. Platis, N. Limnios. Availability and Reliability Estimation for a System Undergoing Minimal, Perfect and Failed Rejuvenation, *First International Workshop on Software Aging and Rejuvenation WOSAR 2008 in conjunction with 19th IEEE International Symposium on Software Reliability Engineering ISSRE 2008, IEEE Xplorer*, Pages 1-6, (2008), doi: [10.1109/ISSREW.2008.5355519](https://doi.org/10.1109/ISSREW.2008.5355519).
30. V.P. Koutras, A.N. Platis. Guaranteed Resource Availability in a Website, *Safety, Reliability and Risk Analysis: Theory, Methods and Applications* – Martorell et al. (eds), © 2008 Taylor & Francis Group, London, Pages 1525-1532, (2008).
31. V.P. Koutras, A.N. Platis. Modeling Perfect and Minimal Rejuvenation for Client Server Systems with Heterogeneous Load, *14th IEEE Pacific Rim International Symposium on Dependable Computing*, IEEE Computer Society Press, Pages 95-103, (2008), doi: [10.1109/PRDC.2008.22](https://doi.org/10.1109/PRDC.2008.22).
32. V.P. Koutras, A.N. Platis. Semi-Markov Availability Modeling of a Redundant System with Partial and Full Rejuvenation Actions, *3rd International Conference on Dependability of Computer Systems (DepCoS-RELCOMEX '08)*, © 2008, IEEE Computer Society Press, Pages 127-134, (2008) doi: [10.1109/DepCoS-RELCOMEX.2008.13](https://doi.org/10.1109/DepCoS-RELCOMEX.2008.13).
33. V.P. Koutras, A.N. Platis, G. A. Gravvanis. Software Rejuvenation on a Grid Computing Environment for Higher Availability Based on Approximate Inverse Preconditioning, *Proceedings of The 8th Hellenic European Research on Computer Mathematics & its Applications Conference (HERCMA 2007)*, (2007).
34. J.B. Violentis, V.P. Koutras, A.N. Platis. G.A. Gravvanis. Asymptotic Availability of an Electrical Substation via a Semi-Markov Process Computed by Generalized Approximate Inverse Preconditioning, *Proceedings of The 8th Hellenic European Research on Computer Mathematics & its Applications Conference (HERCMA 2007)*, (2007).
35. V.P. Koutras, A.N. Platis. VoIP Availability and Service Reliability through Software Rejuvenation Policies, *2nd International Conference on Dependability of Computer Systems (DepCoS-RELCOMEX '07)*, © 2007, IEEE Computer Society Press, Pages 262-269, (2007), doi: [10.1109/DEPCOS-RELCOMEX.2007.54](https://doi.org/10.1109/DEPCOS-RELCOMEX.2007.54).
36. V.P. Koutras, A.N. Platis, G. A. Gravvanis. Software Rejuvenation for Higher Levels of Grid Availability. *Risk, Reliability and Societal Safety* – Aven & Vinnem (eds), © 2007 Taylor & Francis Group, London, Pages 1723-1730, (2007).
37. V.P. Koutras, A.N. Platis. Resource Availability Optimization for Priority Classes in a Website, *12th IEEE International Symposium on Pacific Rim Dependable Computing (PRDC '06)*, Jeske, Giardo, Dai (eds)© 2006, IEEE Computer Society Press, Los Alamitos, California, Pages 305-312, (2006), doi: [10.1109/PRDC.2006.54](https://doi.org/10.1109/PRDC.2006.54).
38. V.P. Koutras, A.N. Platis. Applying software rejuvenation in a two node cluster system for high availability, *International Conference on Dependability of Computer Systems (DEPCOS-RELCOMEX'06)*, (ed.)© 2006, IEEE Computer Society Press, , Pages 175-182, (2006), doi: [10.1109/DEPCOS-RELCOMEX.2006.7](https://doi.org/10.1109/DEPCOS-RELCOMEX.2006.7).
39. V.P. Koutras, A.N. Platis. Optimal Rejuvenation Policy for Increasing VoIP Service Reliability, *Advances in Safety and Reliability*, Soares (ed.)© 2006 Taylor & Francis Group, London, Vol. 3, Pages 2285-2290, (2006).
40. V.P. Koutras, A. Platis. Optimizing the Amount of Free Resources on a Computer System using Software Rejuvenation, *Advances in Safety and Reliability*, Kofowrocki (ed.), © 2005 Taylor & Francis Group, London, Pages 1187-1192, (2005).
41. V.P. Koutras, E. Mennis, N. Nikitakos, A.N. Platis. Software rejuvenation in maritime applications, *Advances in Safety and Reliability* Kofowrocki (ed.)© 2005 Taylor & Francis Group, London, Pages 1193-1197, (2005).

Conference Presentations

42. V. Vassiliadis, C. Salazaras, V. Koutras, N. Thomaidis, A. Platis, G. Dounias, C. Kyriazis. Resource availability modeling and optimization in a car park management problem, *3rd International Symposium & 25th National Conference on Operational Research*, Volos, Greece, 26-28 June 2014.
43. V.P. Koutras, S. Malefaki, A. N. Platis. Dependability Analysis of a Software Rejuvenation Model Based on Monte Carlo Simulation, *24th Panhellenic Statistics Conference*, (2011).

44. S. Malefaki, V.P. Koutras, A.N. Platis. Optimal Maintenance Policies for Technological Systems, , 28th *Panhellenic Statistics Conference*, (2015). (in greek)

Submitted Work

45. C. Salagaras, V. P. Koutras, N.S. Thomaidis, V. Vassiliadis, A.N. Platis, G. Dounias, C. Kyriazis. Resource Availability Modeling and Optimization in a Car Park Management Problem, (2015), **submitted**
46. V.P. Koutras, C.S. Salagaras, A.N. Platis. Two Component Software Rejuvenation Contribution on VoIP Dependability, (2015), **submitted**.

Crossreferences

- S. Malefaki, V.P. Koutras & A.N. Platis, Optimizing the availability and the operational cost of a periodically inspected multi-state deteriorating system with condition based maintenance policies, In Proc of the 9th *International Conference on Availability, Reliability and Security*, September 2014, University of Fribourg, Switzerland, Fribourg, Switzerland, Pages 403-411, (2014).
 1. Lam, J.Y.J., Banjevic, D. A myopic policy for optimal inspection scheduling for condition based maintenance. *Reliability Engineering and System Safety*, Vol. 144, pp. 1-11, (2015). doi: [10.1016/j.ress.2015.06.009](https://doi.org/10.1016/j.ress.2015.06.009)
- A.N. Platis, V.P. Koutras, S. Malefaki. Achieving high availability levels of a deteriorating system by optimizing condition based maintenance policies, *Safety, Reliability and Risk Analysis: Beyond the Horizon-Steenbergen et al (Eds), 2014 Taylor & Francis Group, London, ISBN 978-1-138-00123-7*, Pages 829-837, (2014).
 2. Xanthopoulos, A.S., Koulouriotis, D.E., Botsaris, P.N. Single-stage Kanban system with deterioration failures and condition-based preventive maintenance. *Reliability Engineering and System Safety*, Vol. 142, pp. 111-122, (2015). doi: [10.1016/j.ress.2015.05.008](https://doi.org/10.1016/j.ress.2015.05.008)
- V.P. Koutras. Two-Level Software Rejuvenation Model with Increasing Failure Rate Degradation, *Dependable Computer Systems, Advances in Intelligent and Soft Computing Vol. 97*, Springer-Verlag Berlin Heidelberg, Pages 101-115, (2011). doi: [10.1007/978-3-642-21393-9_8](https://doi.org/10.1007/978-3-642-21393-9_8)
 3. Hassan S. Bakouch, Mansour Aghababaei Jazi, Saralees Nadarajah, Ali Dolati, Rasool Roozegar, A lifetime model with increasing failure rate, *Applied Mathematical Modelling*, Available online 21 April 2014, ISSN 0307-904X, <http://dx.doi.org/10.1016/j.apm.2014.04.028>.
 4. A. Asgharzadeha, Hassan S. Bakouch, S. Nadarajahc, F. Sharaf. A new weighted Lindley distribution with application. **Accepted** in *Brazilian Journal of Probability and Statistics* **01/2014**.
- V.P. Koutras, A.N. Platis. Applying Partial and Full Rejuvenation in Different Degradation Levels, *The 22nd annual International Symposium on Software Reliability Engineering (ISSRE 2010)-3rd Workshop on Software Aging and Rejuvenation (WoSAR 2011)*, Hiroshima, Japan, Pages 20-25, (2011). doi: [10.1109/WoSAR.2011.14](https://doi.org/10.1109/WoSAR.2011.14)
 5. D. Cotroneo, R. Natella, R. Pietrantuono, S. Russo. A Survey of Software Aging and Rejuvenation Studies. *ACM Journal on Emerging Technologies in Computing Systems*. Vol. 10(1), Article No.: 8, 2014. doi>[10.1145/2539117](https://doi.org/10.1145/2539117)
- V.P. Koutras, A.N. Platis. Semi-Markov Performance Modeling of a Redundant System with Partial, Full and Failed Rejuvenation, *International Journal of Critical Computer Based Systems*, Inderscience Publishers, Vol. 1, (1/2/3), Pages 59-85, (2010). doi: [10.1504/IJCCBS.2010.031909](https://doi.org/10.1504/IJCCBS.2010.031909)
 6. Jain, M., Preeti. Availability analysis of software rejuvenation in active/standby cluster system, *International Journal of Industrial and Systems Engineering*, 19 (1), pp. 75-93, (2015). doi: [10.1504/IJISE.2015.065948](https://doi.org/10.1504/IJISE.2015.065948)
 7. Kumar, G., Jain, V., Gandhi, O.P. Feasibility of analytical solution for transient availability using semi-Markov process, *International Journal of Reliability and Safety*, 7 (4), pp. 388-410, (2013), doi: [10.1504/IJRS.2013.057425](https://doi.org/10.1504/IJRS.2013.057425).

8. Kumar G., Jain V., Gandhi O. P., Availability Analysis of Repairable Mechanical Systems Using Analytical Semi-Markov Approach, *Quality Engineering* Vol. 25, Iss. 2, (2013). doi:[10.1080/08982112.2012.751606](https://doi.org/10.1080/08982112.2012.751606)
 9. Braun J., Mottok J., Miedl C., Geyer D., Minas M., Increasing the reliability of single and multi core systems with software rejuvenation and coded processing, *Lecture Notes in Informatics (LNI), Proceedings - Series of the Gesellschaft fur Informatik (GI)*, P-210, pp. 163-178, (2012).
 10. Wolter K., Avritzer A., Resilience assessment and evaluation of computing systems, *Berlin ; London : Springer*, (2012)
- V.P. Koutras, A.N. Platis, G.A. Gravvanis. Optimal Server Resource Reservation Policies for Priority Classes of Users under Cyclic Non-Homogeneous Markov Modeling, *European Journal of Operational Research*, Vol. 198, Pages 545-556, (2009). doi: <http://dx.doi.org/10.1016/j.ejor.2008.09.031>
 11. Iannoni, A.P., Chiyoshi, F., Morabito, R. A spatially distributed queuing model considering dispatching policies with server reservation. *Transportation Research Part E: Logistics and Transportation Review*, 75, pp. 49-66. (2015). doi: [10.1016/j.tre.2014.12.012](https://doi.org/10.1016/j.tre.2014.12.012)
 12. Pazour, J.A., Roy, D. Analyzing rental vehicle threshold policies that consider expected waiting times for two customer classes. *Computers and Industrial Engineering*, 80, pp. 80-96, (2015). doi:[10.1016/j.cie.2014.10.030](https://doi.org/10.1016/j.cie.2014.10.030)
 13. Meng H., Hei X., Zhang J., Liu J., and Sui L. Software Aging and Rejuvenation in a J2EE Application Server, *Qual. Reliab. Engng. Int.*, (2014). doi: [10.1002/qre.1729](https://doi.org/10.1002/qre.1729).
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