Curriculum Vitae

Dr. Vasilis P. Koutras
Assistant Professor (Tenured)
Stochastic Modeling
Department of Financial and Management Engineering,
School of Engineering,
University of the Aegean
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✉ v.koutras@fme.aegean.gr
Birth Date: 29/08/78

Assistant Professor (Tenured)

Department of Financial and Management Engineering

School of Engineering, University of the Aegean

Research Interests

Stochastic modeling of highly available and reliable systems. Stochastic modeling of software rejuvenation, computer systems performability indicators, software reliability, 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 Relaibility.

1997 - 2002 BSc in **Mathematics,** Department of Mathematics, University of Patras, Greece

Academic Posistions

12/ 2020 – today **Assistant Professor (tenured)**
Department of Financial and Management Engineering, University of the Aegean
Teaching:

Operations Research II: AcY. 20-21, 21-22, 22-23

Modelling Analysis and Design of Stochastic Systems: AcY. 20-21, 21-22, 22-23

Statistics: AcY. 20-21, 21-22, 22-23

Stochastic Models: AcY. 20-21, 21-22, 22-23

5/ 2017 – 12/2020 **Assistant Professor**
Department of Financial and Management Engineering, University of the Aegean
Teaching:

Operations Research II: AcY. 17-18, 18-19, 19-20

Modelling Analysis and Design of Stochastic Systems: AcY. 17-18, 18-19, 19-20

Statistics: AcY. 17-18, 18-19, 19-20

Stochastic Models: AcY. 17-18, 18-19, 19-20

11/ 2019 – 1/20 **Assistant Professor**
Department of Financial and Management Engineering, University of the Aegean,
Postgraduate Program in Financial & Management Engineering
Teaching:

Operations Research (Lectures)

7/ 2014 – 5/2017 **Lecturer**
Department of Financial and Management Engineering, University of the Aegean
Teaching:

Operations Research II: AcY. 14-15, 15-16, 16-17, 17-18

Modelling Analysis and Design of Stochastic Systems: AcY. 14-15, 15-16, 17-18

Statistics: AcY. 14-15, 15-16, 16-17, 17-18

Stochastic Models: AcY. 14-15, 15-16, 16-17, 17-18

10/ 2005 – 7/ 2014 **(1) Adjunct Faculty Member**at
Department of Financial and Management Engineering, University of the Aegean

Teaching:

Operations Research II: AcY. 05-06*, 06-07*, 07-08*, 08-09*, 09-10*, 10-11, 11-12, 12-13, 13-14, 14-15, 15-16

Modelling Analysis and Design of Stochastic Systems: AcY. 12-13, 13-14, 14-15, 15-16

Statistics: AcY. 10-11, 11-12, 12-13, 13-14, 14-15, 15-16

Stochastic Models: AcY. 10-11, 11-12, 12-13, 13-14, 14-15, 15-16

System Reliability: AcY. 13-14

Queueing Theory: AcY. 10-11

Probability Model LAB*: AcY. 06-07, 07-08, 08-09, 09-10

Statistics LAB: AcY. 06-07, 07-08, 08-09, 09-10

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

(2). Research Associate in Postgraduate Program:Economics and Management for Engineers, Department of Financial and Management Engineering, University of the Aegean

Seminar in Statistics: AcY. 06-07,07-08,11-12,12-13,13-14,14-15,15-16,16-17,17-18

10/2022 – today **Hellenic Open University**
School of Science & Technology
Academic Staff, PostGraduate Programme: ***Data Science and Machine Learning (DAMA)***, Course: ***DAMA 50 Mathematics for Machine Learning***

10/2019– 7/2020 **Hellenic Open University**

School of Science & Technology
Academic Staff, PostGraduate Programme: ***Quality Management and Technology Msc***, Course:***DIP50 Basic Tools and Methods for Quality Control***

10/2018– 7/2019 **Hellenic Open University**
School of Science & Technology
Academic Staff, PostGraduate Programme: ***Quality Management and Technology Msc***, Course:***DIP50 Basic Tools and Methods for Quality Control***

10/2017– 7/2018 **Hellenic Open University**
School of Science & Technology
Academic Staff, PostGraduate Programme: ***Quality Management and Technology Msc***, Course:***DIP50 Basic Tools and Methods for Quality Control***

10/2016– 7/2017 **Hellenic Open University**
School of Science & Technology
Academic Staff, PostGraduate Programme: ***Quality Management and Technology Msc***, Course:***DIP61 Special Topics on Quality***

10/2015– 7/2016 **Hellenic Open University**
School of Science & Technology
Academic Staff, PostGraduate Programme:***Quality Assurance Msc***, Course:***DIP50 Basic Tools and Methods for Quality Control***

10/2013– 7/2014 **Hellenic Open University**
School of Science & Technology
Academic Staff, PostGraduate Programme:***Quality Assurance Msc***, Course:***DIP50 Basic Tools and Methods for Quality Control***

10/ 2009– 7/2018 Member of the **Relaibility Enigeeniring Laboratory (REL),** ***Department of Financial and Management Engineering***, **University of the Aegean**

Research Activity

11/2015 – 7/ 2016 **Researcher** (Department of Financial and Management Engineering, University of the Aegean, RELab) *in European Funding Project:*

'PREPAREDNESS AND PREVENTION PROJECTS IN CIVIL PROTECTION AND MARINE POLLUTION' – EUROPEAN COMMISION – DG ECHO*:*

An Integrated Methodological framework for Emergency Logistics (MELOGIC)

DG Humanitarian and Civil Protection (DG ECHO), ECHO/SUB/2014/695769*, co-financed: 75% by the European Commission (DGECHO), 25% by Own Resources (ECHO/SUB/2014/695769).*

3/2012 – 9/ 2015 **Researcher** (Department of Financial and Management Engineering, University of the Aegean, RELab) *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 Supervision

1. Supervisor: **I. Mitrofani PhD Thesi**. *Title:* **Stochastic modeling of epidemiological phenomena based on Branching Processes**, Department of Financial and Management engineering, School of Engineering, University of the Aegean ***(2022-today)***.

PhD Advisory Comitee

1. Advisory Comitee: **A. Gialos PhD Thesis**. *Title:* **Evaluation of vision picking technology performance by configuring system design and order picking parameters,** Department of Financial and Management engineering, School of Engineering, University of the Aegean ***(2020-today)***.

2. Advisory Comitee: **E.Karampotsis PhD Thesis**. *Title:* **Medical Decision Making using Intelligent Data Analysis Methods**, Department of Financial and Management engineering, School of Engineering, University of the Aegean ***(2019-today)***.

3. Advisory Comitee: **P. Psomas PhD Thesis**. *Title:* **Prognostics and Health Management of Renewable Energy System**, Department of Financial and Management engineering, School of Engineering, University of the Aegean ***(2019-today)***

4. Advisory Comitee: **T. Markopoulos PhD Thesis**. *Title:* **Reliability Analysis of Multi-State Systems: A Case Study on Maritime Application**, Department of Financial and Management engineering, School of Engineering, University of the Aegean ***(2019-today)***.

MRes Supervision

1. Supervisor: **E. Athanasiadis, Master by Research**. *Title:* **Modeling and optimization of routing and scheduling of delivery trucks and unmanned aircrafts in tandem, and charging station location selection for last-mile delivery**, Department of Financial and Management engineering, School of Engineering, University of the Aegean ***(2022-today)***.

2. Supervisor: **A. Kadrefi, Master by Research**. *Title:* **Stochastic Modeling and Optimization of Resource Availability in Multiple Parking Lots**, Department of Financial and Management engineering, School of Engineering, University of the Aegean, 2021.

3. Supervisor: **I. Mitrofani, Master by Research**. *Title:* **Branching Processes**, Department of Financial and Management engineering, School of Engineering, University of the Aegean, 2021.

Theses Supervision

University of the Aegean

1. C. Gika, ***"Markov Models for Covid-19 Survival Analysis in Greece"***, Department of Financial and Management Engineering, University of the Aegean, July 2022
2. D. Mavrogenni, ***"Stochastic Modeling of the performance of software rejuvenation models using semi-Markov processes"***, Department of Financial and Management Engineering, University of the Aegean, July 2022.
3. E. Athanasiadis, "***Modelling opportunistic maintenance and reliability analysis on a two-unit multi-state system in series***", Department of Financial and Management Engineering, University of the Aegean, January 2022. *Note: Co-supervising with V. Zeimpekis*.
4. N. Thomaidis, "***Evaluation of operational parameters that affect the order picking performance in a warehouse: A Design of Experiments Approach***". Department of Financial and Management Engineering, University of the Aegean, September 2021. *Note: Co-supervising with V. Zeimpekis*.

5. Z. Paragyiou, "***Modelling opportunistic maintenance and reliability analysis on a two-unit multi-state system in series***", Department of Financial and Management Engineering, University of the Aegean, June 2021.
6. N. Petropoulou, "***An approach for Financial Risk Management by Using Hidden Markov Models****",* Department of Financial and Management Engineering, University of the Aegean, January 2021.
7. A. Soulis, "***An approach for an integrated strategy on vehicle routing and maintenance****",* Department of Financial and Management Engineering, University of the Aegean, July 2020.
8. G. Mourtzos, "***Stochastic Modeling and Availability and Performance Optimization of k-out-of-n Systems with Multi-State Deteriorating Units under Maintenance****",* Department of Financial and Management Engineering, University of the Aegean, Februaty 2020.
9. T.T.M. Saltsidis, "***Stochastic Modeling of a Standby System with Two Non-Identical Units****",* Department of Financial and Management Engineering, University of the Aegean, January 2020.
10. K. Kaoua, *"**Modeling and Reliability Analysis of Multi-State Systems with Repairable Standby Elements**",* Department of Financial and Management Engineering, University of the Aegean, January 2020.
11. M. Apostolidou, "***Markov models as a tool for estimating credit migration matrices for Greek economy***", Department of Financial and Management Engineering, University of the Aegean, June 2019.
12. A. Chrysikos, "***A methodology for portfolio selection based on Markov Processes. Case Study: The banking sector in the South European countries***", Department of Financial and Management Engineering, University of the Aegean, September 2018.
13. M. Panagi, "***Modeling and Optimization of Two-Level Software Rejuvenation Policies Based on Geometric Sequences***", Department of Financial and Management Engineering, University of the Aegean, June 2018.
14. S. Doudoumi, "***Reliability analysis for a subsea blowout preventer control system"***, Department of Financial and Management Engineering, University of the Aegean, June 2018.
15. D. Stamoulis, "***Markov Modeling of Operation and Maintenance of a Medical Equipment System***", Department of Financial and Management Engineering, University of the Aegean, June 2018.
16. S. D. Dovletoglou, «***Natural disaster management in Bangladesh "Urban Resilience Project"***», Department of Financial and Management Engineering, University of the Aegean, June 2017
17. V. Kontosfiri, "***Stochastic Modeling and Optimization of Car Park Management system with Priorities***", Department of Financial and Management Engineering, University of the Aegean,, February 2017.
18. I. Mitrofani, " ***Stochastic Modeling of an Industrial System***" Department of Financial and Management Engineering, University of the Aegean, June 2016.
19. 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).
20. A. Kadrefi, "***Availability Modeling for Mobile Cloud Computing***", Department of Financial and Management Engineering, University of the Aegean, (in progress).
21. A. Savvelis, "***Stochastic Modelin usin the Supplementary Variable Technique***", Department of Financial and Management Engineering, University of the Aegean, (in progress).
22. G. Vallas, "***A semi-Markov Model for the Realiability of Telecomunications Systems***", Department of Financial and Management Engineering, University of the Aegean, June 2014.
23. A. Manatos, "***Reliability Stochastic Modeling of Repairable Mechanical Systems"***, Department of Financial and Management Engineering, University of the Aegean, June 2014.
24. N. Bakovasilis, "***Heuristic Algorithms for solving resource optimization problems***", Department of Financial and Management Engineering, University of the Aegean, September 2014.
25. I. Kavoura, "***Yield Management: Case study for effective income management in asirlines***", Department of Financial and Management Engineering, University of the Aegean, January 2014.
26. A. Achiladelli, ***"Performace measures of a retrial queue with redundancy"***, Department of Financial and Management Engineering, University of the Aegean, June 2013.
27. P. Diamantopoulos, "***Stochastic Modeling of Cloud Computing Service Reliability***", Department of Financial and Management Engineering, University of the Aegean, June 2012.
28. I. Stergiou, ***"Modeling a two-unit system in parallel using Markov Regenerative Processes: Reliability and Performance Analysis"***, Department of Financial and Management Engineering, University of the Aegean, (in progress).

29. E. Karagiovannis, ***"Modeling and Design of Opportunistic Maintenance Policies for Multi-Component Systems"***, Department of Financial and Management Engineering, University of the Aegean, (in progress).
30. I. Zachari, ***"Modeling and optimization of resource availability in systems with clients' priorities and unreliable resources"***, Department of Financial and Management Engineering, University of the Aegean, (in progress).
31. E. Mavrokefalou, ***"Solving the vehicle routing problem with e-cargo bikes for last mile delivery"***, Department of Financial and Management Engineering, University of the Aegean, (in progress).

Hellenic Open University

1. D. Kefallinos, "***Statistical Analysis of road accident in Greece based on design-of-experiments methods"***, Hellenic Open University, MSc in Quality Assurance, September 2020.
2. N. Mpriasouli, "***Stochastic modeling and dependability analysis of medical diagnosis equipment: A case study for Computed Tomography (CT) scanning machine."***, Hellenic Open University, MSc in Quality Assurance, September 2020.
3. S. Gara, "***Reliability of water supply systems from source to tap using Fault Tree Analysis (FTA)***", Hellenic Open University, MSc in Quality Management and Technology, September 2019.
4. L. Koufos, "***Dependability and Performance of a Two-Unit Redundant Multi-stage Deteriorating Systems with Maintenance: The case of Non-Identical Units***", Hellenic Open University, MSc in Quality Management and Technology, September 2019.
5. K. Nastoulis, "***Investigating the Implementation, Efficiency and Effectiveness of Management by Objectives (MBO) in Hellenic Air Forces: The case of Air Force Academy***", Hellenic Open University, MSc in Quality Management and Technology, September 2019.
6. A. Vouros, "***Reliability analysis of structured heterogenous wireless sensor networks in area surveillance systems***", Hellenic Open University, Quality Management and Technology, September 2018.
7. E. Papadopoulou, " ***Implementation of quality control methods and tools in food industry: Case study in the production of cheese alternatives.***", Hellenic Open University, Quality Management and Technology, September 2018.
8. P. Triantafylopoulos, "***Statistical quality control methods and tools of the manufacturing process of door and window handles and metal parts at each plating phase***", Hellenic Open University, Quality Management and Technology, September 2018.
9. M. Kaliva. " ***Integrated Management System according to protocols AGRO 2.1. & AGRO 2.2.: Factors affecting its implementation at the prefectures of Pella and Florina and its recognition from foreign organizations***", Hellenic Open University, MSc in Quality Management and Technology. September 2017.
10. Z. Apostolina. "***Risk Management and ISO 9001:2015. A case study in Risk Management on Regional Development Fund of Central Macedonia***", Hellenic Open University, MSc in Quality Management and Technology. September 2017.
11. P. Rafailidis, "***A comparative analysis of the financial ratios of firms that are traded in the Stock Market of selected sectors of the Greek Economy and How the prototype ISO 31000: 2009 affects the firms that adopted it***", Hellenic Open University, MSc in Quality Management and Technology. September 2017.
12. A. Papadopoulou, "***Investigation of the current status on the supply chain security management systems in food industry in Greece***", Hellenic Open University, MSc in Quality Management and Technology, May 2017.
13. 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.
14. I. Marougas, "***Service Quality and Customer Satisfaction in a Telecommunication Service Provider in Greece"***, Hellenic Open University, MSc in Quality Assurance, September 2014.
15. A. Horianopoulou, "***Investigating the principles of total quality management in a financial institution"***, Hellenic Open University, MSc in Quality Assurance, September 2014.
16. 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.

Publications

International Journals

1. V.P. Koutras, A. Kadrefi, A.N. Platis (2021). A Cyclic Non-Homogenous Markov Chain Model for Resource Availability Optimization in a Two-Parking Lots System with Priority Classes and Resource Reservation. ***Applied Stochastic Models in Business and Industry***, Vol. 38(1), Pages 182-210, (2018). **doi:** https://doi.org/10.1002/asmb.2655
2. V.P. Koutras, S. Malefaki, A.N. Platis (2021). Opportunistic maintenance on the automated switch mechanism of a two-unit multi-state system. ***European Journal of Industrial Engineering***, Vol. 5(2), Pages 616-642. **doi**: 10.1504/EJIE.2021.10035757
3. M. E. Fragkos, V. Zeimpekis, V. Koutras, I. Minis (2020). Supply planning for shelters and emergency management crews. ***Operational Research, An International Journal***, **Available online (12 March 2020), doi:** https://doi.org/10.1007/s12351-020-00557-7.
4. V. P. Koutras, A. N. Platis (2019). On the performance of software rejuvenation models with multiple degradation levels. ***Software Quality Journal***, Pages 1-37, **doi:** https://doi.org/10.1007/s11219-019-09491-0.
5. E. Baou, V.P. Koutras, V. Zeimpekis, I. Minis. Emergency evacuation planning in natural disasters under diverse population and fleet characteristics, ***Journal of Humanitarian Logistics and Supply Chain Management***, Vol. 8(4), Pages 447-476, (2018). **doi:** https://doi.org/10.1108/JHLSCM-11-2017-0066
6. V.P. Koutras, S. Malefaki, A.N. Platis, Optimization of the dependability and performance measures of a generic model for multi-state deteriorating systems under maintenance, ***Reliability Engineering & System Safety***, Vol. 166, Pages 73-86, (2017). **doi:** http://dx.doi.org/10.1016/j.ress. 201701.002.
7. C. Salagaras, V. P. Koutras, N.S. Thomaidis, V. Vassiliadis, A.N. Platis, G. Dounias and C. Kyriazis, (2017). Resource Availability Modeling and Optimization in a Car Park Management Problem. ***International Journal of Operations Research and Information Systems, Special Issue: Operations Research and its Application in Engineering***, Vol..8(2), Pages 56-77, (2017) **doi:**10.4018/IJORIS.2017040103
8. A. Manatos, V. P. Koutras and A. N. Platis. Dependability and performance stochastic modelling of a two-unit repairable production system with preventive maintenance, ***International Journal of Production Research***, Vol. 54 (21), Pages. 6395-6415, (2016). **doi**: 10.1080/00207543.2016.1201603
9. 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***, Vol. 32(4), Pages 15-21-1533, (2016). **doi:** https://doi.org/10.1002/qre.1862
10. 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
11. 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 (2013). **doi:** 10.1002/asmb.945**.**
12. 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
13. 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).
14. 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
15. 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
16. 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

17. P.M. Psomas, A.N. Platis. (2022). Optimizing the Maintenance Strategy for Offshore Wind Turbines Blades Using Opportunistic Preventive Maintenance. ***In W. Zamojski et al. (Eds.): DepCoS-RELCOMEX 2022, LNNS 484, (529469_1_En, Chapter 22)***, doi: https://doi.org/10.1007/978-3-031-06746-4_22, **to appear**

18. V.P. Koutras, S. Malefaki and A.N. Platis (2020). Dependability and Performance Analysis for a Two Unit Multi-State System with Imperfect Switch. ***In A. Makrides, A. Karagrigotiou & C. Skiadas (Eds.), Data Analysis and Applications 4, Vol. 6, iSTE WILEY, London***, Pages 119-154.

19. V.P. Koutras, and A.N. Platis. (2020). Software Rejuvenation: Key Conceptsand Granularity. ***In T. Dohi, K.S. Trivedi & Alberto Avritzer (Eds.), Handbook of Software Aging and Rejuvenation***, ***Fundamentals, Methods, Applications, and Future Directions***, World Scientific, Pages 41-70. **doi:** https://doi.org/10.1142/9789811214578_0003.

20. V.P. Koutras, S. Malefaki and A.N. Platis (2020). Stochastic Modelling of Opportunistic Maintenance for Series Systems with Degrading Components. ***In Cui, Frenkel & Lisnianski (Eds.), Stochastic Modeling in Reliability Engineering,*** CRC Press, Taylor and Francis Group, Boca Raton, Pages 183-197.

21. S. Malefaki, V.P. Koutras, and A.N. Platis. (2017).Optimizing availability and performance of a two-unit redundant multi-state deteriorating system. ***Recent Advances in Multi-State Reliability, Springer Series in Reliability Engineering, Part of the Springer Series in Reliability Engineering book series (RELIABILITY), Springer, Berlin***. Pages 71-105. **doi:** https://doi.org/10.1007/978-3-319-63423-4_5

22. 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

International Conferences Proceedings (with review)

23. P.M. Psomas, I. Dagkinis , A.N. Platis, V.P. Koutras, (2022), Modelling the Dependability of an Offshore Desalination System Using the Universal Generating Function Technique. ***Proceedings of the 32nd European Safety and Reliability Conference (ESREL 2022), Eds: Maria Chiara Leva, Edoardo Patelli, Luca Podofillini, and Simon Wilson, ISBN: 978-981-18-5183-4. Research Publishing, Singapore***, Dublin, Ireland, Pages: 1731-1738 **doi**: 10.3850/978-981-18-5183-4_R29-12-226-cd

24. I. A. Mitrofani and V. P. Koutras, (2021). A Branching Process Model for the Novel Coronavirus (Covid-19) Spread in Greece. ***International Journal of Modeling and Optimization: Proceedings of the 9th International Conference on System Modeling and Optimization, Budapest, Hungary, February 3-5, 2021***, Vol. 11(3), Pages 63-69. **doi:** 10.7763/IJMO.2021.V11.779

25. I. Mitrofani and V.P. Koutras (2020). Modelling Refinery Pump System Reliability Using Branching Processes. ***Proceedings of the 30th European Safety and Reliability Conference and the 15th Probabilistic Safety Assessment and Management Conference Edited by Piero Baraldi, Francesco Di Maio and Enrico ZioCopyright : ESREL2020-PSAM15Organizers. Published by Research Publishing, Singapore. ISBN/DOI : 978-981-14-8593-0,*** Venice, Italy, 1-6 November 2020.

26. A. Kadrefi, V.P. Koutras and A.N. Platis (2020). Modelling Resource Reservation in a two-parking lot problem with client priorities. ***Proceedings of the 30th European Safety and Reliability Conference and the 15th Probabilistic Safety Assessment and Management Conference Edited by Piero Baraldi, Francesco Di Maio and Enrico ZioCopyright : ESREL2020-PSAM15Organizers. Published by Research Publishing, Singapore. ISBN/DOI : 978-981-14-8593-0,*** Venice, Italy, 1-6 November 2020.

27. P. Psomas, A.N. Platis and V.P. Koutras (2020). Modelling the Dependability Measures of a Multi-State Degraded Wind Farm System with Minimal Repairs Using the UGF Technique. ***Proceedings of the 30th European Safety and Reliability Conference and the 15th Probabilistic Safety Assessment and Management Conference Edited by Piero Baraldi, Francesco Di Maio and Enrico ZioCopyright : ESREL2020-PSAM15Organizers. Published by Research Publishing, Singapore. ISBN/DOI : 978-981-14-8593-0,*** Venice, Italy, 1-6 November 2020.

28. A. Kadrefi, V.P. Koutras and A.N. Platis (2020). Profit Optimization in a Two-Parking Lots System with Priority Clients using Resource Reservation Policies. *In Proc of* ***XIV Balkan Conference on Operational Research, BALCOR 2020,*** Thessaloniki, Greece, 30 September-3 October 2020. Pages 382-386.

29. V. P. Koutras, S. Malefaki and A. N. Platis, (2018). Optimal Maintenance Policies of a Two Unit Multi-State Deteriorating System with Imperfect Switch. *In Proc. of* 5th ***Stochastic Modeling Techniques and Data Analysis International Conference***, Chania, Crete, Greece, 12-15 June 2018.

30. P.M. Psomas, A. N. Platis and V. P. Koutras, (2018). Modeling the Reliability and Performance of a Wind Farm Using the Universal Generating Function Technique. *In Proc. of* 5th ***Stochastic Modeling Techniques and Data Analysis International Conference***, Chania, Crete, Greece, 12-15 June 2018, Pages 497-508.

31. S. Malefaki, V.P. Koutras and A.N. Platis, Multi-State Deteriorating System Dependability with Maintenance using Monte Carlo Simulation. *In Proc of* ***SMRLO'16 2016:Second International Symposium on Stochastic Models in Reliability Engineering, Life Science and Operations Management***, February 2016, SCE-Shamoon College of Engineering, Beer Sheva, Israel, Pages 61-70, (2016) **doi:** 10.1109/SMRLO.2016.21

32. C.S. Salagaras, V.P. Koutras, A.N. Platis and I.A. Tsokos. Resource Availability Optimization for a Point-to-Point Connection on a Telecommunication Network. In Proc of ***SMRLO'16 2016:Second International Symposium on Stochastic Models in Reliability Engineering, Life Science and Operations Management***, February 2016, SCE- Shamoon College of Engineering, Beer Sheva, Israel, Pages 176-185, (2016). **doi:** 10.1109/SMRLO.2016.39

33. T.V. Tzioutzias, A.N. Platis and V.P. Koutras. Markov Modeling of the Availability of a Wind Turbine Utilizing Failures and Real Weather Data. *In Proc of* ***SMRLO'16 2016:Second International Symposium on Stochastic Models in Reliability Engineering, Life Science and Operations Management***, February 2016, SCE- Shamoon College of Engineering, Beer Sheva, Israel, Pages 166-196, (2016). **doi:** 10.1109/SMRLO.2016.40

34. 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.

35. 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).

36. 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).

37. T.V. Tzioutzias, A. N. Platis and 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).

38. 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).

39. 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).

40. 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).

41. 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.

42. 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.

43. 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)**.**

44. 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

45. 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.

46. 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.

47. 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.

48. 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).

49. 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.

50. 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).

51. 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).

52. 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).

53. 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.

54. 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).

55. 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, .

56. 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 .

57. 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).

58. 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).

59. 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 .

60. 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).

61. 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 .

62. 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.

63. 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).

64. V.P. Koutras, A. Platis. Optimizing the Amount of Free Resources on a Computer System using Software Rejuvenation, ***Advances in Safety and Reliability***, Kołowrocki (ed.), © 2005 Taylor & Francis Group, London, Pages 1187-1192, (2005).

65. V.P. Koutras, E. Mennis, N. Nikitakos, A.N. Platis. Software rejuvenation in maritime applications, ***Advances in Safety and Reliability*** Kołowrocki (ed.)© 2005 Taylor & Francis Group, London, Pages 1193-1197, (2005).

Conference Presentations

66. V. P. Koutras, (2021). Stochastic Modeling of Software Rejuvenation: Recent Advances and Future Directions, ***33rd Panhellenic Statistical Conference and the 2021 International Workshop of G.S.I.*** **Invited Speaker.**

67. V. P. Koutras (2019). Modeling the implementation of software rejuvenation in computer systems: Advances and future trends. ***11th International Workshop on Software Aging and Rejuvenation WOSAR 2019***, **Keynote Speaker**.

68. S. Malefaki, V.P. Koutras and A.N. Platis. (2017). Sojourn time distributions effects on a redundant multi-state deteriorating system with maintenance. ***European Meeting of Statisticians (EMS)***, 24-28 July 2017, Helsinki, Finland.

69. A. Manatos, S. Malefaki, V.P. Koutras. Modeling and Optimization of Dependability and Performance Measures of Multi-State Deteriorating Systems with Redundancy, ***29th Panhellenic Statistics Conference***, (2016). **(in greek)**

70. S. Malefaki, V. P. Koutras, A.N. Platis. Optimization of Maintennace Policies for Technological Systems, ***28th Panhellenic Statistics Conference,*** (2015)**. (in greek)**

71. V. Vassiliadis, C. Salagaras, 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.

72. V.P. Koutras, S. Malefaki, A. N. Platis. Dependability Analysis of a Software Rejuvenation Model Based on Monte Carlo Simulation, ***24ο Panhellenic Statistics Conference,*** (2011)**.**

Submitted for Publication in International Journals

1. V.P. Koutras, A.N. Platis (2022). Modeling Smart Rejuvenation on a Series System with Different Failure Modes.

2. V.P. Koutras (2022). A Markov Regenerative Process Model for the Dependability and Performance of a Two-Unit Multi-State System under Maintenance

3. V.P. Koutras, S. Malefaki (2021). Modeling opportunistic maintenance and its effects on the dependability and performance of k-out-of-n systems.

Crossreferences

I. A. Mitrofani and V. P. Koutras, (2021). A Branching Process Model for the Novel Coronavirus (Covid-19) Spread in Greece. ***International Journal of Modeling and Optimization: Proceedings of the 9th International Conference on System Modeling and Optimization, Budapest, Hungary, February 3-5, 2021***, Vol. 11(3), Pages 63-69. **doi:** 10.7763/IJMO.2021.V11.779

1. Andrea J. Allen, Mariah C. Boudreau, Nicholas J. Roberts, Antoine Allard, and Laurent Hébert-Dufresne, (2022). Predicting the diversity of early epidemic spread on networks. ***Phys. Rev. Research 4***, 013123 – Published 16 February 2022. **doi:** https://doi.org/10.1103/PhysRevResearch.4.013123

V. P. Koutras, and A. N. Platis (2020). On the performance of software rejuvenation models with multiple degradation levels. ***Software Quality Journal***, Vol. 28, Pages 135-171**, doi:** https://doi.org/10.1007/s11219-019-09491-0.

2. H. Huo, Z. Chen and H. Xu, "Dynamic Analysis of the Software Rejuvenation System with Degradation Levels," 2021 40th ***Chinese Control Conference (CCC), 2021***, pp. 843-848, **doi**: 10.23919/CCC52363.2021.9549437.
3. Fen He , Kimia Rezaei Kalantari , Ali Ebrahimnejad, Homayun Motameni (2022). An Effective Fault-Tolerance Technique in Web Services: An Approach Based on Hybrid Optimization Algorithm of PSO and Cuckoo Search. ***International Arab Journal of Information Technology*** 19(2). **doi**: 10.34028/iajit/19/2/10
4. Huo H, Xu H, Chen Z., (2022). Dynamic Analysis of Software Systems with Aperiodic Impulse Rejuvenation. ***Mathematics***; 10(2):197. **doi:** https://doi.org/10.3390/math10020197
5. Z. Rahmani Ghobadi, H. Rashidi, S.H. Alizadeh, (2022). On Multiple Objective of Software Rejuvenation Models with Several Policies. ***J. Electr. Comput. Eng. Innovations***, 10(1): 25-36, 2022, **doi:** 10.22061/JECEI.2021.7905.448
6. Huixia Huo, Houbao Xu & Zhuoqian Chen, (2021). Modelling and dynamic behaviour analysis of the software rejuvenation system with periodic impulse, ***Mathematical and Computer Modelling of Dynamical Systems***, 27:1, 522-542, **doi:**: 10.1080/13873954.2021.1986074
7. H. Huo, Z. Chen and H. Xu, (2021). Dynamic Analysis of the Software Rejuvenation System with Degradation Levels, ***40th Chinese Control Conference (CCC), 2021***, pp. 843-848, **doi:** 10.23919/CCC52363.2021.9549437.
8. Zahra RAHMANI GHOBADIHassan RASHIDI (2021). A software availability model based on multilevel software rejuvenation and markov chain. ***Turkish Journal of Electrical Engineering and Computer Sciences*** 29(2):730-744. **doi:** 10.3906/elk-2003-159

M. E. Fragkos, V. Zeimpekis, V. Koutras and I. Minis (2020). Supply planning for shelters and emergency management crews. ***Operational Research, An International Journal***, **Available online (12 March 2020), doi:** https://doi.org/10.1007/s12351-020-00557-7

9. Qingyi Wang, Zhuomeng Liu, Peng Jiang, Li Luo, (2022).A stochastic programming model for emergency supplies pre-positioning, transshipment and procurement in a regional healthcare coalition. ***Socio-Economic Planning Sciences***, 101279, ISSN 0038-0121, **doi** : https://doi.org/10.1016/j.seps.2022.101279.
10. Anuar WK, Lee LS, Seow H-V, Pickl S. A Multi-Depot Vehicle Routing Problem with Stochastic Road Capacity and Reduced Two-Stage Stochastic Integer Linear Programming Models for Rollout Algorithm. ***Mathematics***. 2021; 9(13):1572. **doi**: https://doi.org/10.3390/math9131572
11. Anuar WK, Lee LS, Pickl S, Seow H-V. Vehicle Routing Optimisation in Humanitarian Operations: A Survey on Modelling and Optimisation ***Approaches. Applied*** Sciences. 2021; 11(2):667. **doi**: 10.3390/app11020667

E. Baou, V.P. Koutras, V. Zeimpekis and I. Minis (2018). Emergency evacuation planning in natural disasters under diverse population and fleet characteristics, ***Journal of Humanitarian Logistics and Supply Chain Management***, Vol. 8(4), Pages 447-476. **doi:** https://doi.org/10.1108/JHLSCM-11-2017-0066.

12. Klaas Fiete Krutein, Anne Goodchild, (2022),The isolated community evacuation problem with mixed integer programming,***Transportation Research Part E: Logistics and Transportation Review***,Vol. 161, 2022, 102710, ISSN 1366-5545, https://doi.org/10.1016/j.tre.2022.102710.
13. Ebrahimnejad, S., Harifi, S., (2022). An optimized evacuation model with compatibility constraints in the context of disability: an ancient-inspired Giza Pyramids Construction metaheuristic approach. Applied Intelligence. https://doi.org/10.1007/s10489-021-03079-7
14. Sicuaio, Tomé, Olive Niyomubyeyi, Andrey Shyndyapin, Petter Pilesjö, and Ali Mansourian. 2022. "Multi-Objective Optimization Using Evolutionary Cuckoo Search Algorithm for Evacuation Planning" *Geomatics* 2, no. 1: 53-75. https://doi.org/10.3390/geomatics2010005
15. Ebrahimnejad, S., Villeneuve, M., Tavakkoli-Moghaddam, R. (2021). An optimization model for evacuating people with disability in extreme disaster conditions: A case study**.** ***Scientia Iranica***, (), -. **doi:** 10.24200/SCI.2021.57431.5237

16. James Rayawan, Vinit S. Tipnis, Alfonso J. Pedraza-Martinez, (2021). On the connection between disaster mitigation and disaster preparedness: the case of Aceh province, Indonesia. ***Journal of Humanitarian Logistics and Supply Chain Management***, Vol. 11 No. 1, 2021, pp. 135-154.
17. Anuar WK, Lee LS, Pickl S, Seow H-V. Vehicle Routing Optimisation in Humanitarian Operations: A Survey on Modelling and Optimisation Approaches. ***Applied Sciences***. 2021; 11(2):667. **doi:** 10.3390/app11020667
18. Budhi Sholeh Wibowo, Budi Hartono (2020). Integrating Human Behavior and Safety Measure into Evacuation Route Planning in a Volcanic Crisis. ***Jurnal Teknik Industri***, Vol. 22, No. 2, December 2020, pp. 1-7. **doi:** 10.9744/jti.22.2
19. Sachin Agarwal, Ravi Kant, Ravi Shankar, (2020). Evaluating solutions to overcome humanitarian supply chain management barriers: A hybrid fuzzy SWARA – Fuzzy WASPAS approach, ***International Journal of Disaster Risk Reduction***, Vol. 51, 2020, 101838, ISSN 2212-4209. **doi**: https://doi.org/10.1016/j.ijdrr.2020.101838.
20. Egodage, N., Abdeen, F.N. and Sridarran, P. (2020), "Fire emergency evacuation procedures for differently-abled community in high-rise buildings", ***Journal of Facilities Management***, Vol. ahead-of-print No. ahead-of-print. https://doi.org/10.1108/JFM-07-2020-0043
21. Shafiq, M. and Soratana, K. (2020). Lean readiness assessment model – a tool for Humanitarian Organizations' social and economic sustainability, ***Journal of Humanitarian Logistics and Supply Chain Management,*** Vol. ahead-of-print No. ahead-of-print. **doi:** https://doi.org/10.1108/JHLSCM-01-2019-0002
22. Iswar Mani Adhikari, Urmila Pyakurel, Tanka Nath Dhamala, (2020), An integrated solution approach for the time minimization evacuation planning problem. ***International Journal of Operations Research***, Vol. 17, pp. 27-39. **doi:** 10.6886/IJOR.202003_17(1).0002

S. Malefaki, V.P. Koutras, and A.N. Platis. (2018). Optimizing availability and performance of a two-unit redundant multi-state deteriorating system. ***In A. Lisnianski, I. Frenkel & A. Karagrigoriou (Eds.)***, ***Recent Advances in Multi-State Reliability, Springer Series in Reliability Engineering, Part of the Springer Series in Reliability Engineering book series (RELIABILITY),*** Springer, Berlin. Pages 71-105. **doi:** https://doi.org/10.1007/978-3-319-63423-4_5

23. Yingyi Li, Ying Chen, Qingyuan Zhang, Rui Kang, (2022). Belief reliability analysis of multi-state deteriorating systems under epistemic uncertainty, ***Information Sciences***, 2022, ISSN 0020-0255, doi: https://doi.org/10.1016/j.ins.2022.05.022.

V.P. Koutras, S. Malefaki and A.N. Platis, (2017). Optimization of the dependability and performance measures of a generic model for multi-state deteriorating systems under maintenance, ***Reliability Engineering & System Safety***, Pages 73-86, **doi:** http://dx.doi.org/10.1016/j.ress. 201701.002.

24. F. Nasrfard, M. Mohammadi, M.Rastegar, Probabilistic Optimization of Preventive Maintenance Inspection Rates by Considering Correlations among Maintenance Costs, Duration, and States Transition Probabilities, ***Computers & Industrial Engineering***, 2022, 108619, ISSN 0360-8352, **doi**: https://doi.org/10.1016/j.cie.2022.108619.
25. C. Guo, Z. Liang, (2022). A predictive Markov decision process for optimizing inspection and maintenance strategies of partially observable multi-state systems. ***Reliability Engineering & System Safet***y, Volume 226, 2022, 108683, ISSN 0951-8320. **doi:** https://doi.org/10.1016/j.ress.2022.108683
26. Xanthopoulos, A.S., Vlastos, S. & Koulouriotis, D.E., (2022). Coordinating production, inspection and maintenance decisions in a stochastic manufacturing system with deterioration failures. ***Oper Res Int J*** (2022). https://doi.org/10.1007/s12351-022-00715-z
27. Chao-Hui Huang, Chun-Ho Wang, Guan-Liang Chen, (2021). Multiobjective Multistate System Preventive Maintenance Model with Human Reliability International Journal of Aerospace Engineering Volume 2021, Article ID 6623810, 16 pages. **doi**: https://doi.org/10.1155/2021/6623810
28. Guerraiche, K.; Dekhici, L.; Chatelet, E.; Zeblah, A,. Multi-Objective Electrical Power System Design Optimization Using a Modified Bat Algorithm. Energies 2021, 14(13):3956. **doi**: https://doi.org/10.3390/en14133956
29. Chen Fang, Lirong Cui,(2021). Reliability Evaluation for Balanced Systems with Auto-Balancing Mechanisms, Reliability ***Engineering & System Safety***, 2021, 107780, ISSN 0951-8320. **doi**: https://doi.org/10.1016/j.ress.2021.107780
30. Y. Chen, Y. Liu and T. Xiahou, "A Deep Reinforcement Learning Approach to Dynamic Loading Strategy of Repairable Multistate Systems," in ***IEEE Transactions on Reliability***, **doi**: 10.1109/TR.2020.3044596.
31. Gregory Levitin, Maxim Finkelstein, Yanping Xiang, (2021). Optimal mission abort policies for repairable multistate systems performing multi-attempt mission. ***Reliability Engineering & System Safety***, In Press, Available online 28 January 2021, 107497. **doi:** https://doi.org/10.1016/j.ress.2021.107497.
32. Jin, H., Hai, L., Tang, X. (2020). An optimal maintenance strategy for multi-state systems based on a system linear integral equation and dynamic programming, ***Journal of Industrial & Management Optimization***, Vol. 16(2), pp. 965-990. **doi:** http://dx.doi.org/10.3934/jimo.2018188

33. Wang, C., Xu, J., Zhang, Z. et al. Condition-Based Spare Ordering Model for a Two-Stage Degrading System***. J. Syst. Sci. Syst. Eng***. (2020) **doi:**10.1007/s11518-019-5441-9

34. Wang Y., Li F. (2020). An Optimal Selective Maintenance Model for Multi-state Deteriorating Systems Considering Imperfect Maintenance. In: Xu J., Ahmed S., Cooke F., Duca G. (eds) ***Proceedings of the Thirteenth International Conference on Management Science and Engineering Management. ICMSEM2019 2019. Advances in Intelligent Systems and Computing***, vol 1001. Springer, Cham. **doi:** https://doi.org/10.1007/978-3-030-21248-3_33

35. Bei Wu, Lirong Cui, Chen Fang,(2019). Reliability analysis of semi-Markov systems with restriction on transition times. ***Reliability Engineering & System Safety***,Vol. 190, 106516, ISSN 0951-8320. **doi:** https://doi.org/10.1016/j.ress.2019.106516.

36. T. Jiang, Y. Liu, Y.-X.Zheng, Optimal Loading Strategy for Multi-State Systems: Cumulative Performance Perspective, ***Applied Mathematical Modelling***, 2019, ISSN 0307-904X. **doi:** https://doi.org/10.1016/j.apm.2019.04.043

37. Y. Liu, Q. Liu, C. Xie, F. Wei, (2019).Reliability Assessment for Multi-State Systems with State Transition Dependency***, Reliability Engineering & System Safety***, Vol. 188, pp. 276-288. **doi:**https://doi.org/10.1016/j.ress.2019.03.013

38. Barbu, V.S. & Vergne, N. (2018). Reliability and Survival Analysis for Drifting Markov Models: Modeling and Estimation. ***Methodology and Computing in Applied Probabability***, pp. 1-23. **doi:** https://doi.org/10.1007/s11009-018-9682-8

39. Faddoul, R., Raphael, W., Chateauneuf, A., Maintenance optimization of series systems subject to reliability constraints, (2018). ***Reliability Engineering and System Safety***, 180, pp. 179-188. **doi:** https://doi.org/10.1016/j.ress.2018.07.016.

40. Aizpurua, J.I., Catterson, V.M., Papadopoulos, Y., (2017). Chiacchio, F., D'Urso, D., Supporting group maintenance through prognostics-enhanced dynamic dependability prediction. ***Reliability Engineering and System Safety***, 168, pp. 171-188. **doi:** 10.1016/j.ress.2017.04.005

41. Gregory Levitin, Liudong Xing, (2017). Multi-state systems (Editorial***), Reliability Engineering & System Safety***, 166, 2017, Pages 1-2, **doi:** http://dx.doi.org/10.1016/j.ress.2017.06.008.

42. A. Alebrant Mendes, J. L. D. Ribeiro and D. W. Coit, (2017). Optimal Time Interval Between Periodic Inspections for a Two-Component Cold Standby Multistate System, ***IEEE Transactions on Reliability***, 66, (2), pp. 559-574. **doi:** 10.1109/TR.2017.2689501

V. P. Koutras and A. N. Platis, (2016). User-perceived Availability of a Software Rejuvenation Model with Recovery Time Omission. ***Quality and Reliability Engineering International***, Vol. 32(4), Pages 15-21-1533. **doi:** https://doi.org/10.1002/qre.1862

43. W. Dong, S. Liu, L. Tao, Y.i Cao, Z. Fang, Reliability variation of multi-state components with inertial effect of deteriorating output performances, ***Reliability Engineering & System Safety***, Volume 186, Pages 176-185. **doi:** https://doi.org/10.1016/j.ress.2019.02.018.

44. Y. Qiao, Z. Zheng, Y. Fang, F. Qin, K. S. Trivedi and K. Cai, (2018). Two-Level Rejuvenation for Android Smartphones and Its Optimization, ***IEEE Transactions on Reliability***, Early Access, 03 December 2018, pp. 1-20. **doi:** 10.1109/TR.2018.2881306

45. Qingan Qiu & Lirong Cui (2018) Availability analysis for general repairable systems with repair time threshold, ***Communications in Statistics - Theory and Methods***, **doi:** 10.1080/03610926.2017.1417430

S. Malefaki, V.P. Koutras and A.N. Platis, (2016). Multi-State Deteriorating System Dependability with Maintenance using Monte Carlo Simulation. *In Proc of* ***SMRLO'16 : Second International Symposium on Stochastic Models in Reliability Engineering, Life Science and Operations Management***, February 2016, SCE-Shamoon College of Engineering, Beer Sheva, Israel, Pages 61-70. **doi:** 10.1109/SMRLO.2016.21

46. A. Zhang, Y. Liu, A. Barros, E. Kassa, (2019). A degrading element of safety-instrumented systems with combined maintenance strategy. In ***Proceedings of the 29th European Safety and Reliability Conference (ESREL 2019)***. 22 – 26 September 2019 Hannover, Germany, pp. 1078-1085.

47. A. Zhang, T. Zhang, A.Barros, Y. Liu, (2019). Optimization of maintenances following proof tests for the final element of a safety-instrumented system, ***Reliability Engineering & System Safety***, In Press, Available online 23 December 2019, 106779. **doi**: https://doi.org/10.1016/j.ress.2019.106779.

48. M. Grida, A. Zaid and G. Kholief, "Optimization of preventive maintenance interval," 2017 ***Annual Reliability and Maintainability Symposium (RAMS)***, Orlando, FL, USA, 2017, pp. 1-7. **doi:** 10.1109/RAM.2017.7889794

A. Manatos, V. P. Koutras and A. N. Platis, (2016). Dependability and performance stochastic modelling of a two-unit repairable production system with preventive maintenance, ***International Journal of Production Research***, Vol. 54 (21), Pages. 6395-6415. **doi**: 10.1080/00207543.2016.1201603

49. F. Nasrfard, M. Mohammadi, M.Rastegar, Probabilistic Optimization of Preventive Maintenance Inspection Rates by Considering Correlations among Maintenance Costs, Duration, and States Transition Probabilities, ***Computers & Industrial Engineering***, 2022, 108619, ISSN 0360-8352, **doi**: https://doi.org/10.1016/j.cie.2022.108619.

50. Negi, M., Shah, M., Kumar, A., Ram, M., Saini, S. (2022). Assessment of Reliability Function and Signature of Energy Plant Complex System. In: ***Ram, M., Pham, H. (eds) Reliability and Maintainability Assessment of Industrial Systems. Springer Series in Reliability Engineering. Springer, Cham***. **doi:** https://doi.org/10.1007/978-3-030-93623-5_11

51. Sellitto, M.A. (2020). Analysis of maintenance policies supported by simulation in a flexible manufacturing cell [Análisis de políticas de mantenimiento soportada por simulación en una célula de fabricación flexible, ***Ingeniare***, 28 (2), pp. 293-303. **doi:** 10.4067/S0718-33052020000200293

52. Wang, J., Zhang, X., Zeng, J., & Zhang, Y. (2020). Optimal dynamic imperfect preventive maintenance of wind turbines based on general renewal processes. ***International Journal of Production Research***, 58(22), 6791-6810. **doi:**10.1080/00207543.2019.1685706

53. Afonso Sellitto, Miguel. (2020). Analysis of maintenance policies supported by simulation in a flexible manufacturing cell. Ingeniare. ***Revista chilena de ingeniería***, 28(2), 293-303. **doi:** https://dx.doi.org/10.4067/S0718-33052020000200293

54. Yu Wang, Tianshu Yang, Hong Ji, Yin Chen (2019). Quasi-Periodic Replacement Policy for a Two-Unit Production System. ***Journal of Shanghai Jiaotong University (Science)***, pp 1-9. **doi:** https://doi.org/10.1007/s12204-019-2149-4

55. Jinhe Wang, Xiaohong Zhang, Jianchao Zeng & Yunzheng Zhang (2019) Optimal dynamic imperfect preventive maintenance of wind turbines based on general renewal processes, International Journal of Production Research, **doi**: 10.1080/00207543.2019.1685706

56. Chrissoleon T. Papadopoulos, Jingshan Li, Michael E.J. O'Kelly, (2019). A classification and review of timed Markov models of manufacturing systems. ***Computers & Industrial Engineering***, Vol. 128, pp. 219-244. **doi:** https://doi.org/10.1016/j.cie.2018.12.019.

57. M. Grida, A. Zaid and G. Kholief, "Optimization of preventive maintenance interval," 2017 ***Annual Reliability and Maintainability Symposium (RAMS)***, Orlando, FL, USA, 2017, pp. 1-7. **doi:** 10.1109/RAM.2017.7889794

T.V. Tzioutzias, A.N. Platis and V.P. Koutras. Markov Modeling of the Availability of a Wind Turbine Utilizing Failures and Real Weather Data. *In Proc of* ***SMRLO'16 : Second International Symposium on Stochastic Models in Reliability Engineering, Life Science and Operations Management***, February 2016, SCE- Shamoon College of Engineering, Beer Sheva, Israel, Pages 166-196, (2016). **doi:** 10.1109/SMRLO.2016.40

58. Merizalde, Y.; Hernández-Callejo, L.; Duque-Perez, O.; Alonso-Gómez, V. Maintenance Models Applied to Wind Turbines. A Comprehensive Overview. ***Energies 2019***, 12(2), 225; **doi:** https://doi.org/10.3390/en12020225

V.P. Koutras, S. Malefaki and A.N. Platis, (2014). 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. **doi:** http://dx.doi.org/10.1016/j.simpat.2013.10.001

59. Amir Ghorbani Pour, Zahra Naji-Azimi, Majid Salari, Sample average approximation method for a new stochastic personnel assignment problem, ***Computers & Industrial Engineering***, Available online 8 September 2017, ISSN 0360-8352, **doi:** https://doi.org/10.1016/j.cie.2017.09.006

60. Seyyed Mostafa Nosratabadi, Rahmat-Allah Hooshmand, Eskandar Gholipour, Sadegh Rahimi, Modeling and simulation of long term stochastic assessment in industrial microgrids proficiency considering renewable resources and load growth, ***Simulation Modelling Practice and Theory***, Vol. 75, June 2017, pp. 77-95, ISSN 1569-190X. **doi:** http://doi.org/10.1016/j.simpat.2017.03.013.

S. Malefaki, V.P. Koutras and A.N. Platis, (2014). Optimizing the Availability and the Operational Cost of a Periodically Inspected Multi-state Deteriorating System with Condition Based Maintenance Policies. *In Proc of* ***2014 Ninth International Conference on Availability, Reliability and Security (ARES),*** Pages 403-411, 8-12 Sept. 2014. **doi:** 10.1109/ARES.2014.61

61. Gugaliya, A. and Naikan, V. (2019), "A model for financial viability of implementation of condition based maintenance for induction motors", ***Journal of Quality in Maintenance Engineering***, Vol. ahead-of-print No. ahead-of-print. **doi:** https://doi.org/10.1108/JQME-08-2017-0053

62. A. Lyubchenko, J. Pacheco, E. Kopytov, S. Lutchenko, V. Maystrenko and S. Bartosh, (2018). An approach for optimal maintenance planning of radio communication devices considering reliability and operational costs. ***2018 Moscow Workshop on Electronic and Networking Technologies (MWENT),*** Moscow, Russia, pp. 1-5.**doi:** 10.1109/MWENT.2018.8337301

63. Li, Z., Zhang, T., (2017). Optimization of inspection and repair of multi-state system under imperfect characteristics. Beijing Hangkong Hangtian Daxue Xuebao/Journal of Beijing University of Aeronautics and Astronautics, 43 (5), pp. 951-960. **doi:** 10.13700/j.bh.1001-5965.2016.0386

64. Ji Ye Janet Lam, Dragan Banjevic, (2015). A myopic policy for optimal inspection scheduling for condition based maintenance, ***Reliability Engineering & System Safety***, Vol. 144, Pages 1-11. **doi**.org/10.1016/j.ress.2015.06.009

65. Hoang A., Do P. and Iung B., Prognostics on energy efficiency performance for maintenance decision-making: Application to industrial platform TELMA. ***Prognostics and System Health Management Conference (PHM), 2015***, Beijing, 2015, Pages 1-7. **doi:** 10.1109/PHM.2015.7380096

A.N. Platis, V.P. Koutras and S. Malefaki, (2014). 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.

66. 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, Pages 111-122, (2015). **doi:** 10.1016/j.ress.2015.05.008

I.G. Sideratos, A. N. Platis, V. P. Koutras and N. Ampazis, (2014). Reliability analysis of a two-stage Goel-Okumoto and Yamada S-shaped model. *In Proc of* ***Ninth International Conference on Dependability and Complex Systems DepCoS-RELCOMEX***. June 30 – July 4, 2014, Brunów, Poland, Advances in Intelligent Systems and Computing, Series Vol. 286, Pages 393-402. **doi:** 10.1007/978-3-319-07013-1_38

67. N. R. Barraza, (2019). Software Reliability Analysis of Multistage Projects, ***2019 Amity International Conference on Artificial Intelligence*** (AICAI), Dubai, United Arab Emirates, pp. 67-73. **doi:** 10.1109/AICAI.2019.8701285

68. N.R. Barraza, (2018). Five Decades of Software Reliability, Past, Present, Future and New Challenges, ***2018 7th International Conference on Reliability, Infocom Technologies and Optimization: Trends and Future Directions, ICRITO 2018***, , pp. 88-94. **doi:**: 10.1109/ICRITO.2018.8748556

69. Wang, J., Wang, H., Wang, L., Reliability assessment of travelsky passenger information and service system based on competitive matching selection model, (2018). ***ACM International Conference Proceeding Series***, pp. 6-11. **doi:** 10.1145/3180374.3181330

70. Paweł, J., & Janusz, S. (2015). Managing complex software projects. ***Information Systems in Management***, 4(3), 171-182.

P. Diamantopoulos, V.P. Koutras and A.N. Platis, (2014). 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. **doi:**10.1201/b15938-443

71. Tajmilur Rahman, Joshua Nwokeji, Tejas Veeraganti Manjunath. (2022). Analysis of Current Trends in Software Aging: A Literature Survey. ***Computer and Information Science***, Vol. 15, No. 5, pp. 19-45. **doi**: 10.5539/cis.v15n4p19

72. Bisikalo, O.V., Kovtun, V.V., Kovtun, O.V., Danylchuk, O.M. (2021). Mathematical modeling of the availability of the information system for critical use to optimize control of its communication capabilities. ***International Journal of Sensors, Wireless Communications and Control***, 11 (5), pp. 505-517. **doi:** 10.2174/2210327910999201009163958

73. Santhi, K., Saravanan, R. (2016). A surveyon queueing models for cloud computing. ***International Journal of Pharmacy and Technology***, 8 (2), pp. 3964-3977.

V.P. Koutras, A. N. Platis, G. A. Gravvanis, (2013). 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. **doi:** 10.1002/asmb.945.

74. Y. Qiao, Z. Zheng, Y. Fang, F. Qin, K. S. Trivedi and K. Cai, (2018). Two-Level Rejuvenation for Android Smartphones and Its Optimization, ***IEEE Transactions on Reliability***, Early Access, 03 December 2018, pp. 1-20. **doi:** 10.1109/TR.2018.2881306

S. Malefaki, V.P. Koutras and A.N. Platis, (2012). Modeling Software Rejuvenation on a Redundant System Using Monte Carlo Simulation. ***In Proc of 2012 IEEE 23rd International Symposium on Software Reliability Engineering Workshops (ISSREW)***, Dallas TX, USA, Pages 277-282. **doi**: 10.1109/ISSREW.2012.89.

75. Gregory Levitin, Liudong Xing, Yanshun Dai, (2021). Minimum cost replacement and maintenance scheduling in dual-dissimilar-unit standby systems, ***Reliability Engineering & System Safety***, Available online 21 October 2021, 108127ISSN 0951-8320. **doi:** https://doi.org/10.1016/j.ress.2021.108127 .

76. G. Levitin, L. Xing, Y. Xiang, (2019).Optimizing software rejuvenation policy for tasks with periodic inspections and time limitation. ***Reliability Engineering & System Safety***, In Press, Available online 24 December 2019, 106776. **doi**: https://doi.org/10.1016/j.ress.2019.106776.

77. G. Levitin, L. Xing, Y. Xiang, (2019). Cost minimization of real-time mission for software systems with rejuvenation. ***Reliability Engineering & System Safety***, Available online 19 July 2019, 106593,ISSN 0951-8320. **doi:** https://doi.org/10.1016/j.ress.2019.106593.

78. G. Levitin, L. Xing, H-Z. Huang, Optimization of partial software rejuvenation policy, ***Reliability Engineering & System Safety***, 2019. In Press, Accepted Manuscript. **doi:** https://doi.org/10.1016/j.ress.2019.03.011

79. G. Levitin, L. Xing, L. Luo,(2019). Joint optimal checkpointing and rejuvenation policy for real-time computing tasks, ***Reliability Engineering & System Safety***, Vol. 182, pp. 63-72. **doi**: https://doi.org/10.1016/j.ress.2018.10.006.

80. Gregory Levitin, Liudong Xing, Hanoch Ben-Haim, Optimizing software rejuvenation policy for real time tasks, ***Reliability Engineering & System Safety***, Vol 176, pp. 202-208. **doi**: https://doi.org/10.1016/j.ress.2018.04.010.

V.P. Koutras, (2011). 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. **doi:** 10.1007/978-3-642-21393-9_8

81. Z. Rahmani Ghobadi, H. Rashidi, S.H. Alizadeh, (2022). On Multiple Objective of Software Rejuvenation Models with Several Policies. ***J. Electr. Comput. Eng. Innovations***, 10(1): 25-36, 2022, **doi:** 10.22061/JECEI.2021.7905.448

82. Sanku Dey, Liang Wang, (2021). Methods of Estimation and Bias Corrected Maximum Likelihood Estimators of Unit Burr III Distribution. ***American Journal of Mathematical and Management Sciences***. Published online: 28 Aug 2021. https://doi.org/10.1080/01966324.2021.1963357

83. Irshad, M.R., Maya, R. & Krishna, A., (2021). Exponentiated Power Muth Distribution and Associated Inference. ***Journal of the Indian Society for Probability and Statistics***, Published: 04 August 2021. **doi:** https://doi.org/10.1007/s41096-021-00104-3

84. Mahendra Saha, Harsh Tripathi & Sanku Dey (2021): Single and double acceptance sampling plans for truncated life tests based on transmuted Rayleigh distribution, ***Journal of Industrial and Production Engineering***, **doi:** https://doi.org/10.1080/21681015.2021.1893843

85. Dey, S., Altun, E., Kumar, D. *et al.* The Reflected-Shifted-Truncated Lomax Distribution: Associated Inference with Applications. *Ann. Data. Sci.* (2021). https://doi.org/10.1007/s40745-021-00340-1

86. Josmar Mazucheli, André F.B. Menezes, Sanku Dey, and Saralees Nadarajah. (2020). Improved parameter estimation of the Chaudhry and Ahmad distribution with climate applications. Chilean Journal of Statistics, Vol. 11, No. 2, December 2020, Pages 137–150.

87. Chen, Y., Qin, J., Jin, T. et al. Coordinating an Extended Warranty Supply Chain under Increasing, Constant and Decreasing Product Failure Rates. Journal of Systems Science and Systems Engineering. (2020). **doi:** https://doi.org/10.1007/s11518-020-5463-3

88. Ateq Alghamedi, Sanku Dey, Devendra Kumar, Saeed A. Dobbah, (2020). A New Extension of Extended Exponential Distribution with Applications. ***Annals of Data Science***, pp1-24, Available online: 20 January 2020. **doi**: https://doi.org/10.1007/s40745-020-00240-w.

89. Saha Mahendra, Kumar Sumit, Maiti Sudhansu S., Singh Yadav Abhimanyu, Dey, Sanku, (2019). Asymptotic and Bootstrap Confidence Intervals for the Process Capability Index cpy Based on Lindley Distributed Quality Characteristic. ***American Journal of Mathematical and Management Sciences***, Published online: 2019/04/01. **doi:** 10.1080/01966324.2019.1580644

90. Ghosh, I., Dey, S. & Kumar, D. (2019). Bounded M-O Extended Exponential Distribution with Applications. ***Stochastics and Quality Control***, Published Online: 2019-03-07. **doi**: https://doi.org/10.1515/eqc-2018-0028

91. Y. Qiao, Z. Zheng, Y. Fang, F. Qin, K. S. Trivedi and K. Cai, (2018). Two-Level Rejuvenation for Android Smartphones and Its Optimization, ***IEEE Transactions on Reliability***, Early Access, 03 December 2018, pp. 1-20. **doi:** 10.1109/TR.2018.2881306

92. Sharafi, M., Zarezadeh, S., Behboodian, J., (2018). A New Class of Skewed Lifetime Distributions with Increasing Failure Rate. ***Iranian Journal of Science and Technology, Transaction A: Science***, 42 (1), pp. 97-104. **doi:** 10.1007/s40995-018-0513-0

93. Vikas Kumar Sharma, Sanku Dey, Sanjay Kumar Singh and Uzma Manzoor, (2017). On length and area-biased Maxwell distributions, ***Communications in Statistics - Simulation and Computation***, pp. 1-23. **doi:** 10.1080/03610918.2017.1317804

94. Sophia D. Waymyers, Sanku Dey and Hrishikesh Chakraborty. (2017). A new generalization of the gamma distribution with application to negatively skewed survival data. ***Communications in Statistics - Simulation and Computation***. Accepted author version posted online: 01 Jun 2017. **doi:** http://dx.doi.org.proxy.eap.gr/10.1080/03610918.2017.1335408

95. Dey, S., Raheem, E., & Mukherjee, S. (2017). Statistical properties and different methods of estimation of transmuted Rayleigh distribution. ***Revista Colombiana de Estadística***, 40(1), 165-203. **doi:** https://doi.org/10.15446/rce.v40n1.56153

96. Asgharzadeh A., Bakouch Hassan S., Nadarajah S., Sharafi, F., A new weighted Lindley distribution with application. ***Braz. J. Probab. Stat***. 30 (2016), no. 1, 1-27. **doi:**10.1214/14-BJPS253.

97. Guo C., Wu H., Hua X., Lautner D. and Ren S., Use Two-Level Rejuvenation to Combat Software Aging and Maximize Average Resource Performance. ***High Performance Computing and Communications (HPCC), 2015 IEEE 7th International Symposium on Cyberspace Safety and Security (CSS), 2015 IEEE***

12th International Conferen on Embedded Software and Systems (ICESS), 2015 IEEE 17th International Conference on, New York, NY, 2015, pp. 1160-1165. **doi:** 10.1109/HPCC-CSS-ICESS.2015.306

98. 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.

99. Asgharzadeh, A.; Bakouch, Hassan S.; Nadarajah, S.; Sharafi, F. A new weighted Lindley distribution with application. ***Braz. J. Probab. Stat***. 30 (2016), no. 1, Pages 1-27. **doi:**10.1214/14-BJPS253. http://projecteuclid.org/euclid.bjps/1453211800.

V.P. Koutras and A.N. Platis, (2011). Applying Partial and Full Rejuvenation in Different Degradation Levels. *In Proc of* ***22nd annual International Symposium on Software Reliability Engineering (ISSRE 2010)-3rd Workshop on Software Aging and Rejuvenation (WoSAR 2011)***, Hiroshima, Japan, Pages 20-25. **doi**: 10.1109/WoSAR.2011.14

100. Z. Hao and J. Liu, "GAN-ASD: Precise Software Aging State Detection for Android System Based on BEGAN Model and State Clustering," 2020 20th IEEE/ACM International Symposium on Cluster, Cloud and Internet Computing (CCGRID), Melbourne, Australia, 2020, pp. 212-221, **doi**: 10.1109/CCGrid49817.2020.00-72.

101. G. Levitin, L. Xing, Y. Xiang, (2019).Optimizing software rejuvenation policy for tasks with periodic inspections and time limitation. ***Reliability Engineering & System Safety***, In Press, Available online 24 December 2019, 106776. **doi**: https://doi.org/10.1016/j.ress.2019.106776.

102. G. Levitin, L. Xing, H-Z. Huang, Optimization of partial software rejuvenation policy, ***Reliability Engineering & System Safety***, 2019. In Press, Accepted Manuscript. **doi:** https://doi.org/10.1016/j.ress.2019.03.011.

103. G. Levitin, L. Xing, L. Luo,(2019). Joint optimal checkpointing and rejuvenation policy for real-time computing tasks, ***Reliability Engineering & System Safety***, Vol. 182, pp. 63-72. **doi**: https://doi.org/10.1016/j.ress.2018.10.006.

104. Gregory Levitin, Liudong Xing, Hanoch Ben-Haim, Optimizing software rejuvenation policy for real time tasks, ***Reliability Engineering & System Safety***, Vol 176, pp. 202-208. **doi**: https://doi.org/10.1016/j.ress.2018.04.010.

105. Guo C., Wu H., Hua X., Lautner D. and Ren S., Use Two-Level Rejuvenation to Combat Software Aging and Maximize Average Resource Performance. ***High Performance Computing and Communications (HPCC), 2015 IEEE 7th International Symposium on Cyberspace Safety and Security (CSS), 2015 IEEE 12th International Conferen on Embedded Software and Systems (ICESS), 2015 IEEE 17th International Conference on***, New York, NY, 2015, pp. 1160-1165. **doi:** 10.1109/HPCC-CSS-ICESS.2015.306

106. 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

V.P. Koutras and A.N. Platis (2010). 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, Pages 59-85. **doi:** 10.1504/IJCCBS.2010.031909

107. Kumar V, Kumar G, Singh RK, Soni U. Degrading systems availability analysis: analytical semi-Markov approach. **Eksploatacjai Niezawodnosc – Maintenance and Reliability 2021**; 23 (1): 195–208, http://dx.doi.org/10.17531/ein.2021.1.20.

108. Liu, Q, Xing, L, Zhou, C. (2019). Probabilistic modeling and analysis of sequential cyber-attacks. ***Engineering Reports***. 2019;e12065. **doi**: https://doi.org/10.1002/eng2.12065

109. Kumar, G., Jain, V., Soni, U., (2019). Modelling and simulation of repairable mechanical systems reliability and availability, ***International Journal of Systems Assurance Engineering and Management***, 10 (5), pp. 1221-1233: **doi:** 10.1007/s13198-019-00852-3.

110. Kumar A., Saini M., Srivastava D.K. (2018) Profit Analysis of a Computing Machine with Priority and s/w Rejuvenation. In: Mishra D., Nayak M., Joshi A. (eds) ***Information and Communication Technology for Sustainable Development. Lecture Notes in Networks and Systems***, vol 9. Springer, Singapore

111. Mund, Jakob, Junker, Maximilian, Bougouffa, Safa, Cha, Suhyun,Vogel-Heuser, Birgit, (2017). Model-Based Availability Analysis for Automated Production Systems: A Case Study. ***15th ACM-IEEE International Conference on Formal Methods and Models for System Desig***n (MEMOCODE 2017), Vienna, Austria, pp. 46-55.

112. Loganathan M.K., Kumar G., Gandhi O.P., Availability evaluation of manufacturing systems using Semi-Markov model. ***International Journal of Computer Integrated Manufacturing***, Taylor & Francis, pp. 2-16, (2016). **doi:** 10.1080/0951192X.2015.1068454.

113. 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

114. 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.

115. Kumar G., Jain V., Gandhi O. P., (2013). Availability Analysis of Repairable Mechanical Systems Using Analytical Semi-Markov Approach, ***Quality Engineering*** Vol. 25(2), pp. 97-107. **doi**:10.1080/08982112.2012.751606

116. 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).

117. Wolter K., Avritzer A., Resilience assessment and evaluation of computing systems, ***Berlin ; London:Springer***,(2012), ISBN 9783642290329-9783642290312. **doi:** 10.1007/978-3-642-29032-9

V.P. Koutras, A.N. Platis and G.A. Gravvanis, (2009). 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. **doi:** http://dx.doi.org/10.1016/j.ejor.2008.09.031

118. J. Dong, F. Gao, X. Guan, Q. Zhai and J. Wu, (2017). Storage Sizing With Peak-Shaving Policy for Wind Farm Based on Cyclic Markov Chain Model, ***IEEE Transactions on Sustainable Energy***, vol. 8, no. 3, pp. 978-989, July 2017. **doi:** 10.1109/TSTE.2016.2637916

119. 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

120. 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

121. Yang, M., Min, G., Yang, W., Li, Z. Software rejuvenation in cluster computing systems with dependency between nodes, ***Computing***, 96 (6), pp. 503-526, (2014). **doi**: 10.1007/s00607-014-0385-x

122. J. A. Pazour, D. Roy. Minimizing Customer Waiting Costs for Rental Vehicle Providers using Threshold Reservation Policies, ***Working Paper series of Indian Institute of Management Ahmedabad***, 2012.

123. Kirytopoulos K., Voulgaridou D., Platis A., Leopoulosa V., An effective Markov based approach for calculating the Limit Matrix in the analytic network process, ***European Journal of Operational Research***, Vol. 214, Issue 1, Pages 85-90, (2011), **doi**: dx.doi.org/10.1016/j.ejor.2011.03.043.

124. H.-Y. Chen, N.-S. Tian, and X.-L. Xu,, Analysis and modeling for queue scheduling with polling and reservation strategy, ***Systems Engineering and Electronics***, Vol. 31(9), Pages 2249-2253, (2009).

V.P. Koutras, C.S. Salagaras and A.N. Platis, (2009). Software Rejuvenation for Higher Levels of VoIP Availability and Mean Time To Failure. *In Proc of* 4th ***International Conference on Dependability of Computer Systems (DepCoS-RELCOMEX '09)***, © 2009, IEEE Computer Society Press, Pages 99-106. **doi**: http://doi.ieeecomputersociety.org/10.1109/DepCoS-RELCOMEX.2009.21.

125. Choudhary, N., Khaitan nee Gupta, V. High Altitude Aeronautical Platform for VoIP: Dependability Analysis. ***Wireless Pers Commun*** (2022). https://doi.org/10.1007/s11277-022-09656-4

126. Roy, O. P., & Kumar, V. (2021). A survey on voice over internet protocol (VoIP) reliability research. In ***IOP Conference Series: Materials Science and Engineering***, 1020(1). **doi**: 10.1088/1757-899X/1020/1/012015

127. Gupta, V., Kumar, R., (2019). An optimal rejuvenation scheme for improving VoIP service reliability in the existence of resource exhaustion and security breaches. ***International Journal of Reliability and Safety***, 13 (3), pp. 166-178. **doi:** 10.1504/IJRS.2019.101317

128. V. Gupta and G. Chauhan, (2018). An Optimum Rejuvenation Strategy for Maximizing Reliability of Wireless Sensor Networks, ***International Journal of Scientific Research & Management Studies*** (ISSN 2455-6378), Special Issue October 2018, pp. 11-16.

129. V. Gupta, R. Kumar. An Optimal Rejuvenation Strategy for Increasing Service Reliability of a VOIP System with Multiple Components. ***International Journal of Mathematical, Engineering and Management Sciences***, Vol. 2, No. 4, 231–241, 2017

130. Jean Araujo, Rubens Matos, Verônica Conceição, Gabriel Alves, Paulo Maciel, Impact of capacity and discharging rate on battery life time: A stochastic model to support mobile device autonomy planning, Pervasive and Mobile Computing, Available online 24 October 2016, ISSN 1574-1192, **doi**: http://dx.doi.org/10.1016/j.pmcj.2016.10.002.

131. Gupta, V., Dharmaraja, S., Reliability and performance modelling of VoIP system with multiple component failures, ***International Journal of Reliability and Safety***, Vol. 7, Iss. 1, 2013, Pages 58-74, **doi**: 10.1504/IJRS.2013.055824

P.K. Saravakos, G.A. Gravvanis, V.P. Koutras and A.N. Platis, (2009). A Comprehensive Approach to Software Aging and Rejuvenation on a Single Node Software System. *In Proc of* ***9th Hellenic European Research on Computer Mathematics & its Applications Conference*** (***HERCMA 2009***).

132. S. Wang and J. Liu, "HARRD: Real-time Software Rejuvenation Decision Based on Hierarchical Analysis under Weibull Distribution," ***2020 IEEE 20th International Conference on Software Quality, Reliability and Security (QRS)***, Macau, China, 2020, pp. 83-90, **doi:** 10.1109/QRS51102.2020.00023.

133. G. Levitin, L. Xing, Y. Xiang, (2019).Optimizing software rejuvenation policy for tasks with periodic inspections and time limitation. ***Reliability Engineering & System Safety***, In Press, Available online 24 December 2019, 106776. **doi**: https://doi.org/10.1016/j.ress.2019.106776.

134. G. Levitin, L. Xing, Y. Xiang, (2019). Cost minimization of real-time mission for software systems with rejuvenation. ***Reliability Engineering & System Safety***, Available online 19 July 2019, 106593,ISSN 0951-8320. **doi:** https://doi.org/10.1016/j.ress.2019.106593.

135. G. G. Levitin, L. Xing, H-Z. Huang, Optimization of partial software rejuvenation policy, ***Reliability Engineering & System Safety***, 2019. In Press, Accepted Manuscript. **doi:** https://doi.org/10.1016/j.ress.2019.03.011

136. G. Levitin, L. Xing, L. Luo,(2019). Joint optimal checkpointing and rejuvenation policy for real-time computing tasks, ***Reliability Engineering & System Safety***, Vol. 182, pp. 63-72. **doi**: https://doi.org/10.1016/j.ress.2018.10.006.

137. Gregory Levitin, Liudong Xing, Hanoch Ben-Haim, Optimizing software rejuvenation policy for real time tasks, ***Reliability Engineering & System Safety***, Vol 176, pp. 202-208. **doi**: https://doi.org/10.1016/j.ress.2018.04.010..

138. Mahmud, Hoger. A Simple Software Rejuvenation Framework Based on Model Driven Development." ***UHD Journal of Science and Technology*** [Online], 1.2 (2017): 37-45. Web. 20 Sep. 2017

139. Wolter K., Avritzer A., Resilience assessment and evaluation of computing systems, ***Berlin ; London:Springer***,(2012), ISBN 9783642290329-9783642290312. **doi:** 10.1007/978-3-642-29032-9

J.B. Violentis, A.N. Platis, G.A. Gravvanis and V.P. Koutras, (2009). Electrical Substation Efficient Maintenance Policies Based On Semi-Markov Modeling and Approximate Inverse Preconditioning. *In Proc of* ***9th Hellenic European Research on Computer Mathematics & its Applications Conference*** (***HERCMA 2009***).

140. S. L. Braide (2018). Improved Reliability Analysis of Electricity Power Supply to Port Harcourt Distribution Network. ***International Journal of Engineering Science Invention (IJESI)***, Vol. 07, No. 07, pp 23-36.

141. A. O. Melodi, J. A. Momoh and A. O. Oyinlola, "Transmission system reliability modeling and assessment for Nigerian electric grid," ***2017 IEEE PES PowerAfrica***, Accra, 2017, pp. 40-45. **doi:** 10.1109/PowerAfrica.2017.7991197

142. A. O. Melodi, J. A. Momoh and A. O. Oyinlola, "Specific reliability worth assessment and approach of a power transmission expansion plan for Nigeria," ***2017 IEEE 3rd International Conference on Electro-Technology for National Development*** (NIGERCON), Owerri, 2017, pp. 1083-1089. **doi:** 10.1109/NIGERCON.2017.8281971

143. F. I. Izuegbunam, I. S. Uba, I. O. Akwukwaegbu, D. O. Dike. Reliability Evaluation of Onitsha Power Distribution Network via Analytical Technique and the Impact of PV System. ***IOSR Journal of Electrical and Electronics Engineering*** (***IOSR-JEEE***), e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 9, Issue 3, Ver. II, pp 15-22, (2014).

V.P. Koutras and A.N. Platis, (2008). Modeling Perfect and Minimal Rejuvenation for Client Server Systems with Heterogeneous Load. *In Proc of* ***14th IEEE Pacific Rim International Symposium on Dependable Computing***, IEEE Computer Society Press, Pages 95-103. **doi**: 10.1109/PRDC.2008.22.

144. Meng H., Hei X., Zhang J., Liu J., and Sui L. Software Aging and Rejuvenation in a J2EE Application Server, ***Qual. Reliab. Engng. Int***., (2016). **doi**: 10.1002/qre.1729.

145. 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

V.P. Koutras and A.N. Platis, (2008). Semi-Markov Availability Modeling of a Redundant System with Partial and Full Rejuvenation Actions. *In Proc of* 3rd ***International Conference on Dependability of Computer Systems (DepCoS-RELCOMEX '08)***, © 2008, IEEE Computer Society Press, Pages 127-134. **doi**: 10.1109/DepCoS-RELCOMEX.2008.13 .

146. Kumar V, Kumar G, Singh RK, Soni U. Degrading systems availability analysis: analytical semi-Markov approach. ***Eksploatacjai Niezawodnosc – Maintenance and Reliability 2021***; 23 (1): 195–208, http://dx.doi.org/10.17531/ein.2021.1.20.

147. Z. Hao and J. Liu, "GAN-ASD: Precise Software Aging State Detection for Android System Based on BEGAN Model and State Clustering," 2020 20th IEEE/ACM International Symposium on Cluster, Cloud and Internet Computing (CCGRID), Melbourne, Australia, 2020, pp. 212-221, **doi**: 10.1109/CCGrid49817.2020.00-72.

148. G. Levitin, L. Xing, Y. Xiang, (2019). Cost minimization of real-time mission for software systems with rejuvenation. ***Reliability Engineering & System Safety***, Available online 19 July 2019, 106593,ISSN 0951-8320. **doi:** https://doi.org/10.1016/j.ress.2019.106593.

149. G. Levitin, L. Xing, H-Z. Huang, Optimization of partial software rejuvenation policy, ***Reliability Engineering & System Safety***, 2019. In Press, Accepted Manuscript. **doi:** https://doi.org/10.1016/j.ress.2019.03.011

150. Y. Qiao, Z. Zheng, Y. Fang, F. Qin, K. S. Trivedi and K. Cai, (2018). Two-Level Rejuvenation for Android Smartphones and Its Optimization, ***IEEE Transactions on Reliability***, Early Access, 03 December 2018, pp. 1-20. **doi:** 10.1109/TR.2018.2881306

151. Gregory Levitin, Liudong Xing, Hanoch Ben-Haim, Optimizing software rejuvenation policy for real time tasks, ***Reliability Engineering & System Safety***, Vol 176, pp. 202-208. **doi**: https://doi.org/10.1016/j.ress.2018.04.010.

152. Hua, X., Guo, C., Wu, H., Lautner, D., Ren, S., Schedulability Analysis for Real-Time Task Set on Resource with Performance Degradation and Dual-Level Periodic Rejuvenations . (2017) ***IEEE Transactions on Computers***, 66 (3), art. no. 7552537, pp. 553-559.

153. Weng, C., Xiang, J., Xiong, S., Zhao, D., Yang, C., Analysis of Software Aging in Android. ***2016 IEEE 27th International Symposium on Software Reliability Engineering Workshops, ISSREW 2016***, art. no. 7789384, pp. 78-83, 2016. **doi**:10.1109/ISSREW.2016.20

154. Guo C., Wu H., Hua X., Lautner D. and Ren S., Use Two-Level Rejuvenation to Combat Software Aging and Maximize Average Resource Performance. ***High Performance Computing and Communications (HPCC), 2015 IEEE 7th International Symposium on Cyberspace Safety and Security (CSS), 2015 IEEE 12th International Conferen on Embedded Software and Systems (ICESS), 2015 IEEE 17th International Conference on***, New York, NY, 2015, pp. 1160-1165. **doi:** 10.1109/HPCC-CSS-ICESS.2015.306

155. Alebrant Mendes, A., and Ribeiro, J. L. D. (2015) An Accessible Way to Establish Reliability and Expected Time-to-Failure for Cold Standby Redundant Systems Subject to Periodic Inspections. ***Quality and Reliability. Engineering. International***, **doi:** 10.1002/qre.1898

156. Guo, C., Wu, H., Hua, X., Ren, S., Nogiec, J.M. (2015). Maximize system reliability for long lasting and continuous applications. ***New Contributions in Information Systems and Technologies, Volume 353 of the series Advances in Intelligent Systems and Computing***, pp 603-612. **doi:**: 10.1007/978-3-319-16486-1_59

157. Kumar, G., Jain, V., Gandhi, O.P., (2013). Feasibility of analytical solution for transient availability using semi-Markov process. ***International Journal of Reliability and Safety***, Vol. 7(4), pp. 388-410. **doi:**: http://dx.doi.org/10.1504/IJRS.2013.057425

158. Kumar G., Jain V., Gandhi O. P., (2013). Availability Analysis of Repairable Mechanical Systems Using Analytical Semi-Markov Approach. ***Quality Engineering***, Vol. 25 (2), pp. 97-107. **doi:** 10.1080/08982112.2012.751606

159. Distefano, S., Trivedi, K.S., (2013). Non-markovian state-space models in dependability evaluation. ***Quality and Reliability Engineering International***, Vol. 29 (2), pp. 225-239. **doi:** 10.1002/qre.1305

160. Distefano, S., Longo, F., Trivedi, K.S., (2012). Investigating dynamic reliability and availability through state-space models. ***Computers and Mathematics with Applications***, 64 (12), pp. 3701-3716. **doi**: 10.1016/j.camwa.2012.02.038

161. V. Gupta and S. Dharmaraja, Semi-Markov modeling of dependability of VoIP network in the presence of resource degradation and security attacks, ***Reliability Engineering and System Safety***, *In press*, (2011) , **doi**:10.1016/j.ress.2011.08.003.

162. Reinecke. P and Wolter K., A Simulation Study on the Effectiveness of Restart and Rejuvenation to Mitigate the Effects of Software Ageing, ***The 21st annual International Symposium on Software Reliability Engineering (ISSRE 2010.*** **doi**: 10.1109/WOSAR.2010.5722100

163. Wolter, K., (2010). Stochastic models for fault tolerance: Restart, rejuvenation and checkpointing, pp. 1-269. Springer Berlin Heidelberg. **doi**: 10.1007/978-3-642-11257-7

V.P. Koutras, A.N. Platis and N. Limnios, (2008). Availability and Reliability Estimation for a System Undergoing Minimal, Perfect and Failed Rejuvenation. *In Proc of* ***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. **doi**: 10.1109/ISSREW.2008.5355519.

164. Z. Rahmani Ghobadi, H. Rashidi, S.H. Alizadeh, (2022). On Multiple Objective of Software Rejuvenation Models with Several Policies. ***J. Electr. Comput. Eng. Innovations***, 10(1): 25-36, 2022, **doi:** 10.22061/JECEI.2021.7905.448

165. G. Levitin, L. Xing, Y. Xiang, (2019).Optimizing software rejuvenation policy for tasks with periodic inspections and time limitation.***Reliability Engineering & System Safety***, In Press, Available online 24 December 2019, 106776.**doi**: https://doi.org/10.1016/j.ress.2019.106776.

166. G. Levitin, L. Xing, H-Z. Huang, Optimization of partial software rejuvenation policy, ***Reliability Engineering & System Safety***, 2019. In Press, Accepted Manuscript. **doi:** https://doi.org/10.1016/j.ress.2019.03.011

167. Avila, Oscar and Sastoque H., Sebastian, "A SURVEY ON AVAILABILITY CALCULATION AND DEFINITION FOR INFORMATION TECHNOLOGY SERVICES" (2016). ***PACIS 2016 Proceedings***. 259. https://aisel.aisnet.org/pacis2016/259

168. Guo C., Wu H., Hua X., Lautner D. and Ren S., Use Two-Level Rejuvenation to Combat Software Aging and Maximize Average Resource Performance. ***High Performance Computing and Communications***

(HPCC), 2015 IEEE 7th International Symposium on Cyberspace Safety and Security (CSS), 2015 IEEE 12th International Conferen on Embedded Software and Systems (ICESS), 2015 IEEE 17th International Conference on, New York, NY, 2015, pp. 1160-1165. doi: 10.1109/HPCC-CSS-ICESS.2015.306

V.P. Koutras, A. N. Platis and G. A. Gravvanis, (2007). 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. **doi :** http://dx.doi.org/10.1016/j.ress.2006.09.017

169. Zhe Liu, Shurong Li, Yulei Ge,(2022). A parallel algorithm based on quantum annealing and double-elite spiral search for mixed-integer optimal control problems in engineering, ***Applied Soft Computing***, 2022, Available online 18 May 2022, 109018, ISSN 1568-4946, **doi:** https://doi.org/10.1016/j.asoc.2022.109018.

170. Hao,Z.;DiMaio,F.;Zio,E., (2021). Multi-State Reliability Assessment Model of Base-Load Cyber-Physical Energy Systems (CPES) during Flexible Operation Considering the Aging of Cyber Components. ***Energies 2021***, 14, 3241. **doi:** https://doi.org/10.3390/en14113241

171. Zahra RAHMANI GHOBADIHassan RASHIDI (2021). A software availability model based on multilevel software rejuvenation and markov chain. ***Turkish Journal of Electrical Engineering and Computer Sciences*** 29(2):730-744. **doi:** 10.3906/elk-2003-159

172. Liu, Z., Li, S. A numerical method for interval multi-objective mixed-integer optimal control problems based on quantum heuristic algorithm. ***Ann Oper Res*** (2021). **doi:** https://doi.org/10.1007/s10479-021-03998-1

173. Liu, Z., Li, S. A Quantum Computing Based Numerical Method for Solving Mixed-Integer Optimal Control Problems***. J Syst Sci Complex*** (2021). **doi:** https://doi.org/10.1007/s11424-020-9278-6

174. Rahmani Ghobadi, Z., Rashidi, H., Hosseinali Zadeh, S. (2020). A Model for Software Rejuvenation Based On Availability Optimization, ***Journal of Advances in Computer Research***, 11(2), pp. 59-69.

175. Y. Qiao, Z. Zheng, Y. Fang, F. Qin, K. S. Trivedi and K. Cai, (2018). Two-Level Rejuvenation for Android Smartphones and Its Optimization, ***IEEE Transactions on Reliability***, Early Access, 03 December 2018, pp. 1-20. **doi:** 10.1109/TR.2018.2881306

176. T. Bányai, C. Landschützerand Á. Bányai, (2018). Markov-Chain Simulation-Based Analysis of Human Resource Structure: How Staff Deployment and Staffing Affect Sustainable Human Resource Strategy. ***Sustainability 2018***, Vol. 10(10);3692. **doi**: https://doi.org/10.3390/su10103692

177. Carlos Melo, Jean Araujo, Vandi Alves, and Paulo Maciel, (2017). Investigation of software aging effects on the OpenStack cloud computing platform. ***Journal of Software***, 12(2), pp. 125-137.

178. H. Meng, Y. Wang, H. Wang, F. Wang and J. Liu, (2017). Optimal control method for runtime system maintenance, ***29th Chinese Control And Decision Conference*** (***CCDC***), Chongqing, China, 2017, pp. 3272-3275.

179. Wang, J., Gu, D., Wu, Q.E., Han, Z., Research on rejuvenation of software, (2016). Journal of Computational and Theoretical Nanoscience, 13 (5), pp. 3366-3373. **doi** 10.1166/jctn.2016.5000

180. Madhu Jain, Manjula T., Gulati T. R.,(2016). Software Rejuvenation Policies for Cluster System. ***Proceedings of the National Academy of Sciences, India Section A: Physical Sciences***, 14 May 2016. Pages: 1-8. **doi:** http://dx.doi.org/10.1007/s40010-016-0273-1.

181. 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

182. R. Alsoghayer, K. Djemame, Resource failures risk assessment modelling in distributed environments, Journal of Systems and Software, Vol. 88, Pages 42-53, 2014, **doi :** http://dx.doi.org/10.1016/j.jss.2013.09.017.

183. S.V. Dhople, L. DeVille, A.D. Domínguez-García, A Stochastic Hybrid Systems framework for analysis of Markov reward models, ***Reliability Engineering & System Safety***, Volume 123, March 2014, Pages 158-170, ISSN 0951-8320, **doi :** http://dx.doi.org/10.1016/j.ress.2013.10.011.

184. S. M. Hossein Hojjati and E. Kardan, "Application of Markov Chain in Organizations", ***Advanced Materials Research***, Vol. 628, pp. 249-252, 2013

185. Barbierato, E. ,Bobbio, A.; Gribaudo, M.; Iacono, M. Multiformalism to Support Software Rejuvenation Modeling, ***23rd International Symposium on Software Reliability Engineering Workshops (ISSREW)***, pp 271- 276, 2012. **doi**: 10.1109/ISSREW.2012.92

186. Tianshe Yang, Junpeng Bao, Qinge Wu , Research of a resource to influence on the software aging and rejuvenation cycle, ***7th IEEE Conference on Industrial Electronics and Applications*** (ICIEA), 2012, pp.1349-1351, **doi**: 10.1109/ICIEA.2012.6360932.

187. Distefano, S., Longo, F., Trivedi, K.S., Investigating dynamic reliability and availability through state-space models, ***Computers and Mathematics with Applications,*** volume 64, issue 12, pp. 3701 – 3716, (2012), **doi**: http://dx.doi.org/10.1016/j.camwa.2012.02.038.

188. Wu, Q., Hu, W. , Wang, B., Han, Z., Qi, Y., Software aging mechanism analysis and rejuvenation, ***International Journal of Digital Content Technology and its Applications***, Volume 6, Issue 22, 2012, Pages 552-560, doi: 10.4156/jdcta.vol6.issue22.64

189. Wu, Q., Hu, W. , Wang, B., Han, Z., Qi, Y., Biology aging analysis and rejuvenation to prolong life, ***Journal of Convergence Information Technology***, Volume 7, Issue 19, 2012, Pages 227-233, **doi**: 10.4156/jcit.vol7.issue19.27

190. Wolter K., Avritzer A., Resilience assessment and evaluation of computing systems, ***Berlin ; London:Springer***,(2012), ISBN 9783642290329-9783642290312. **doi:** 10.1007/978-3-642-29032-9

191. Wu, Q., Qi, Y., Du, X., Han, Z., A new rejuvenation approach of software aging, ***Proceedings - 2010 International Conference on Optoelectronics and Image Processing***, ICOIP 2010, Volume 1, 2010, Article number5663433, Pages 71-74, **doi**: 10.1109/ICOIP.2010.164

V.P. Koutras, A.N. Platis and G.A. Gravvanis, (2007). Software Rejuvenation for Resource Optimization Based on Explicit Approximate Inverse Preconditioning, ***Applied Mathematics and Computation,*** Vol. 189(1), Pages 163-177. **doi:** http://dx.doi.org/10.1016/j.amc.2006.11.056

192. Zahra RAHMANI GHOBADIHassan RASHIDI (2021). A software availability model based on multilevel software rejuvenation and markov chain. ***Turkish Journal of Electrical Engineering and Computer Sciences*** 29(2):730-744. **doi:** 10.3906/elk-2003-159

193. Rahmani Ghobadi, Z., Rashidi, H., Hosseinali Zadeh, S. (2020). A Model for Software Rejuvenation Based On Availability Optimization, ***Journal of Advances in Computer Research***, 11(2), pp. 59-69.

194. Madhu Jain, Manjula T., Gulati T. R.,(2016). Software Rejuvenation Policies for Cluster System. ***Proceedings of the National Academy of Sciences, India Section A: Physical Sciences***, 14 May 2016. Pages: 1-8. **doi:** http://dx.doi.org/10.1007/s40010-016-0273-1.

195. Jain, M., Preeti. (2015). Availability analysis of software rejuvenation in active/standby cluster system, ***International Journal of Industrial and Systems Engine***ering, 19 (1), Pages 75-93. **doi :** http://dx.doi.org/10.1504/IJISE.2015.065948

196. R. Alsoghayer, K. Djemame, Resource failures risk assessment modelling in distributed environments, Journal of Systems and Software, Vol. 88, Pages 42-53, 2014, **doi :** http://dx.doi.org/10.1016/j.jss.2013.09.017.

197. Thomas J. Hacker, Fabian Romero, Christopher D. Carothers, An analysis of clustered failures on large supercomputing systems, ***Journal of Parallel and Distributed Computing***, Volume 69, Issue 7, July 2009, Pages 652-665, ISSN 0743-7315, http://dx.doi.org/10.1016/j.jpdc.2009.03.007.

V.P. Koutras and A.N. Platis, (2007). VoIP Availability and Service Reliability through Software Rejuvenation Policies. *In Proc of* ***2nd International Conference on Dependability of Computer Systems (DepCoS-RELCOMEX '07)***, IEEE Computer Society Press, Pages 262-269. **doi**: 10.1109/DEPCOS-RELCOMEX.2007.54 .

198. Choudhary, N., Khaitan nee Gupta, V. High Altitude Aeronautical Platform for VoIP: Dependability Analysis. ***Wireless Pers Commun*** (2022). https://doi.org/10.1007/s11277-022-09656-4

199. Roy, O. P., & Kumar, V. (2021). A survey on voice over internet protocol (VoIP) reliability research. In ***IOP Conference Series: Materials Science and Engineering***, 1020(1). **doi**: 10.1088/1757-899X/1020/1/012015

200. Pan He, Gang Liu, Yue Yuan, (2018). An Adaptive Reconfiguration Mechanism for Periodic Software Rejuvenation based on Transient Reliability Analysis***. In Proc of 2018 2nd International Conference on Electronic Information Technology and Computer Engineering (EITCE 2018). MATEC Web Conf***. Vol. 232 03045 (2018). **doi:** 10.1051/matecconf/201823203045

201. T. Dohi, J. Zheng, H. Okamura, K. S.. Trivedi, Optimal periodic software rejuvenation policies based on interval reliability criteria, ***Reliability Engineering & System Safety***, Volume 180,2018, Pages 463-475. **doi:**https://doi.org/10.1016/j.ress.2018.08.009.

202. V. Gupta, R. Kumar. An Optimal Rejuvenation Strategy for Increasing Service Reliability of a VOIP System with Multiple Components. ***International Journal of Mathematical, Engineering and Management Sciences***, Vol. 2, No. 4, 231–241, 2017

203. Alonso, J. and Trivedi, K. S. (2015). Software Rejuvenation and its Application in Distributed Systems. In ***Quantitative Assessments of Distributed Systems*** (eds D. Bruneo and S. Distefano). **doi**: 10.1002/9781119131151.ch11

204. Bhatt, R., Datta, R., A Stochastic Process Based Framework of Redeployment Model for Wireless Sensor Network, ***In Proc. of the 2th International Conference on Advanced Information Networking and Applications Workshops*** (***WAINA***), ***2013*** , pp.443,449, 25-28 March 2013, **doi**: 10.1109/WAINA.2013.176 .

205. Gupta, V., Dharmaraja, S., Reliability and performance modelling of VoIP system with multiple component failures, ***International Journal of Reliability and Safety***, Vol. 7, Iss. 1, 2013, Pages 58-74, **doi**: 10.1504/IJRS.2013.055824

206. V. Gupta and S. Dharmaraja, Semi-Markov modeling of dependability of VoIP network in the presence of resource degradation and security attacks, ***Reliability Engineering and System Safety,*** Vol. 96, Issue 12, Pages 1627–1636, (2011), **doi**: dx.doi.org/10.1016/j.ress.2011.08.003.

207. Vinayak R and Dharmaraja S., Survivability Model for Voice over Internet Protocol using Markov Regenerative Process, ***The 20th annual International Symposium on Software Reliability Engineering*** (***ISSRE 2009***), (2009).

208. Long Zhao; QinBao Song, Availability and Cost Analysis of a Fault-Tolerant Software System with Rejuvenation, ***ICACTE '08. International Conference on Advanced Computer Theory and Engineering, 2008***, vol., no., pp.261-265, (2008), **doi**: 10.1109/ICACTE.2008.115.

209. Long Zhao; QinBao Song; Lei Zhu, Common Software-Aging-Related Faults in Fault-Tolerant Systems, ***2008 International Conference on Computational Intelligence for Modelling Control & Automation***, vol., no., pp.327-331, (2008), **doi**: 10.1109/CIMCA.2008.113.

J.B. Violentis, V.P. Koutras, A.N. Platis and G.A. Gravvanis, (2007). Asymptotic Availability of an Electrical Substation via a Semi-Markov Process Computed by Generalized Approximate Inverse Preconditioning. *In Proc of* ***8th Hellenic European Research on Computer Mathematics & its Applications Conference (HERCMA 2007)***.

210. T. Markopoulos and A.N. Platis. (2017). Reliability Analysis of a Modified IEEE 6BUS RBTS Multi-state System. Recent Advances in Multi-State Reliability, ***Springer Series in Reliability Engineering, Part of the Springer Series in Reliability Engineering book series (RELIABILITY), Springer, Berlin***. Pages 301-319, **doi**: https://doi.org/10.1007/978-3-319-63423-4_16

V.P. Koutras and A.N. Platis, (2006). Applying software rejuvenation in a two node cluster system for high availability. *In Proc of* ***International Conference on Dependability of Computer Systems (DEPCOS-RELCOMEX'06)***, IEEE Computer Society Press, Pages 175-182. **doi**: 10.1109/DEPCOS-RELCOMEX.2006.7.

211. J. Parri, S. Sampietro, L. Scommegna and E. Vicario, "Evaluation of software aging in component-based Web Applications subject to soft errors over time," ***2021 IEEE International Symposium on Software Reliability Engineering Workshops (ISSREW)***, 2021, pp. 25-32, **doi**: 10.1109/ISSREW53611.2021.00040.

212. Gupta, V., Kumar, R., (2019). An optimal rejuvenation scheme for improving VoIP service reliability in the existence of resource exhaustion and security breaches. ***International Journal of Reliability and Safety***, 13 (3), pp. 166-178. **doi:** 10.1504/IJRS.2019.101317

213. V. Gupta and G. Chauhan, (2018). An Optimum Rejuvenation Strategy for Maximizing Reliability of Wireless Sensor Networks, International Journal of Scientific Research & Management Studies (ISSN 2455-6378), Special Issue October 2018, pp. 11-16.

214. Y. Qiao, Z. Zheng, Y. Fang, F. Qin, K. S. Trivedi and K. Cai, (2018). Two-Level Rejuvenation for Android Smartphones and Its Optimization, ***IEEE Transactions on Reliability***, Early Access, 03 December 2018, pp. 1-20. **doi:** 10.1109/TR.2018.2881306

215. V. Gupta, R. Kumar. An Optimal Rejuvenation Strategy for Increasing Service Reliability of a VOIP System with Multiple Components. ***International Journal of Mathematical, Engineering and Management Sciences***, Vol. 2, No. 4, 231–241, 2017

216. J. Rahme and H. Xu, "Dependable and reliable cloud-based systems using multiple software spare components," ***2017 IEEE SmartWorld, Ubiquitous Intelligence & Computing, Advanced & Trusted Computed, Scalable Computing & Communications, Cloud & Big Data Computing, Internet of People and Smart City Innovation*** (SmartWorld/ SCALCOM /UIC /ATC /CBDCom /IOP/SCI), San Francisco, CA, 2017, pp. 1-8. **doi**: 10.1109/UIC-ATC.2017.8397614

217. Jean Rahme and Haiping Xu, (2015). A Software Reliability Model for Cloud-Based Software Rejuvenation Using Dynamic Fault Trees. ***International Journal of Software Engineering and Knowledge Engineering***, Vol. 25(9), pp. 1491-1513. **doi**: 10.1142/S021819401540029X

218. Zahra Rahmani Ghobadi, Baharak Shakeri Aski, Availability Analysis and Improvement with Software Rejuvenation, ***Proceedings of the Third International Conference on Contemporary Issues in Computer and Information Sciences*** (CICIS 2012), Pages 213-218, (2012).

219. Wolter K., Avritzer A., Resilience assessment and evaluation of computing systems, ***Berlin ; London : Springer***, (2012), ISBN 9783642290329-9783642290312. **doi:** 10.1007/978-3-642-29032-9

220. M. Yang, L. Z.Li W. Yang, T. Li., Analysis of Software Rejuvenation in Clustered Computing System with Dependency Relation between Nodes, ***2010 10th IEEE International Conference on Computer and Information Technology***, Pages 46-53, (2010), **doi**: 10.1109/CIT.2010.52.

221. Du X., Qi Y.,Hou D., Chen Y., Software Rejuvenation Model Based on Reconfiguration and Periodical Rejuvenation, ***Journal of Xi'an Jiaotong University***, Vol.44(1), Pages 91-95, 2010.

222. T. Thein, S.-D. Chi and J.S. Park, Increasing Availability and Survivability of Cluster Head in WSN, ***The 3rd International Conference on Grid and Pervasive Computing - Workshops***, Pages 281-285, (2008), **doi**: 10.1109/GPC.WORKSHOPS.2008.44.

223. T.Thein, S.M. Lee, S-D. Chi and J.S. Park, Survival of the internet applications: Proactive recovery model with virtualization, ***IEEE International Symposium on Consumer Electronics***, ***ISCE 2008***, Pages 1-4, (2008), **doi**: 10.1109/ISCE.2008.4559431.

V.P. Koutras and A.N. Platis, (2006). Optimal Rejuvenation Policy for Increasing VoIP Service Reliability, ***Advances in Safety and Reliability***, Soares (ed.), Taylor & Francis Group, London, Vol. 3, Pages 2285-2290.

224. Gupta, V., Kumar, R., (2019). An optimal rejuvenation scheme for improving VoIP service reliability in the existence of resource exhaustion and security breaches. ***International Journal of Reliability and Safety***, 13 (3), pp. 166-178. **doi:** 10.1504/IJRS.2019.101317

225. V. Gupta, R. Kumar. An Optimal Rejuvenation Strategy for Increasing Service Reliability of a VOIP System with Multiple Components. ***International Journal of Mathematical, Engineering and Management Sciences***, Vol. 2, No. 4, 231–241, 2017

226. Gupta, V., Dharmaraja, S., Reliability and performance modelling of VoIP system with multiple component failures, ***International Journal of Reliability and Safety***, Vol. 7, Iss. 1, 2013, Pages 58-74, **doi**: 10.1504/IJRS.2013.055824

227. Zahra Rahmani Ghobadi, Baharak Shakeri Aski, Availability Analysis and Improvement with Software Rejuvenation, ***Proceedings of the Third International Conference on Contemporary Issues in Computer and Information Sciences*** (CICIS 2012), Pages 213-218, (2012).

228. V. Gupta and S. Dharmaraja, Semi-Markov modeling of dependability of VoIP network in the presence of resource degradation and security attacks, ***Reliability Engineering and System Safety,*** Vol. 96, Issue 12, Pages 1627–1636, (2011), **doi**: dx.doi.org/10.1016/j.ress.2011.08.003.

229. V. Gupta and S. Dharmaraja, (2009). An Analytical Framework of Survivability Model for VoIP, ***The 20th International Symposium on Software Reliability Engineering (ISSRE 2009)***.

V.P. Koutras and A.N. Platis, (2006). Resource Availability Optimization for Priority Classes in a Website. *In Proc of* ***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. **doi**: 10.1109/PRDC.2006.54 .

230. H. Hu, Z. Li and H. Hu, (2010). A Joint of Bidding and Ranking Approach for Resource Sharing among Multiple Websites, ***2010 IEEE 7th International Conference on e-Business Engineering (ICEBE), , Shanghai, 2010,*** pp. 523-527. **doi**: 10.1109/ICEBE.2010.58

231. Mavrikakis, I; Mantas, J and Diomidous, M. The Development of an Information System and Installation of an Internet Web Database for the Purposes of the Occupational Health and Safety Management System ***[online].*** In: ***Medinfo 2007: Proceedings of the 12th World Congress on Health (Medical) Informatics; Building Sustainable Health Systems. Amsterdam***: IOS Press, ***Studies in health technology and informatics***, ISSN 0926

V.P. Koutras and A. Platis, (2005). Optimizing the Amount of Free Resources on a Computer System using Software Rejuvenation, ***Advances in Safety and Reliability***, Kołowrocki (ed.), Taylor & Francis Group, London, Pages 1187-1192.

232. Gupta, V., Kumar, R., (2019). An optimal rejuvenation scheme for improving VoIP service reliability in the existence of resource exhaustion and security breaches. ***International Journal of Reliability and Safety***, 13 (3), pp. 166-178. **doi:** 10.1504/IJRS.2019.101317

233. V. Gupta and G. Chauhan, (2018). An Optimum Rejuvenation Strategy for Maximizing Reliability of Wireless Sensor Networks, International Journal of Scientific Research & Management Studies (ISSN 2455-6378), Special Issue October 2018, pp. 11-16.

234. 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).

V.P. Koutras, E. Mennis, N. Nikitakos and A.N. Platis, (2005). Software rejuvenation in maritime applications, ***Advances in Safety and Reliability*** Kołowrocki (ed), Taylor & Francis Group, London, Pages 1193-1197.

235. 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).

236. E. MENNIS, A. PLATIS, N. NIKITAKOS, and J. G. FONTAINE . Enhancing safety in ship's critical systems using markov modeling. ***International Journal of Reliability, Quality and Safety Engineering***. 2009 16:01, 59-72.

Editorial Activity

PC Member in:

- Member of the Technical Program Committee 9th International Workshop on Software Aging and Rejuvenation WoSAR 2021, 2020, 2019, 2018, 2017
- Member of the Technical Program Committee 14th European Performance Engineering Workshop, EPEW 2017

Referee in international journals:

- Heliyon
- Computers & Industrial Engineering
- IEEE Transactions on Emerging Topics in Computing
- International Journal of Operational Research
- Journal of Reliability and Statistical Studies
- Journal of Industrial and Management Optimization
- International Journal of Electrical Power and Energy Systems
- Mathematics
- The Journal of Systems and Software
- Operations Research Letters

- Transactions on Dependable and Secure computing
- Applied Ocean Research
- Journal of Grid Computing
- Journal of Heuristics
- Mathematical Problems in Engineering
- Journal of Systems Science and Systems Engineering
- Journal of Reliability and Statistical Studies
- International Journal of System Assurance Engineering and Management
- Methodology and Computing in Applied Probability
- Production Research
- Applied Stochastic Models in Business and Industry
- Engineering Optimization
- RAIRO-Operations Research
- Reliability Engineering and System Safety
- Stochastic Models
- Communications in Statistics - Simulation and Computation
- Journal of Computational and Applied Mathematics
- International Journal of Machine Learning and Cybernetics
- Performance Evaluation, Special Issue on Software Aging and Rejuvenation
- ACM Journal of Emerging Technologies in Computing
- IEEE Transactions on Dependable and Secure Computing
- Journal of Systems and Software
- International Journal on Artificial Intelligence Tools
- Future Generation Computer Systems
- International Journal of Parallel, Emergent and Distributed Systems
- International Journal of Computer Mathematics: Computer Systems Theory
- International Journal of Electrical Power and Energy Systems

Referee in international conferences:

- International Workshop on Software Aging and Rejuvenation - WoSAR
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Scholarships

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