

Publications

International Journals

1. V.P. Koutras, A.N. Platis, (2025). Modeling Smart Rejuvenation on a Series System with Different Failure Modes, *Software Quality Journal*, Vol. 33(13). doi: <https://doi.org/10.1007/s11219-025-09710-x>
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3. V.P. Koutras, S. Malefaki (2024). Modeling opportunistic maintenance and its effects on the dependability and performance of k-out-of-n systems. *International Journal of Reliability and Safety*. Vol. 18, No. 4, Pages 337-362. doi: [10.1504/IJRS.2024.10065954](https://doi.org/10.1504/IJRS.2024.10065954)
4. V. P, Koutras (2023). A Markov Regenerative Process Model for the Dependability and Performance of a Two-Unit Multi-State System under Maintenance. *Reliability Engineering and System Safety*. Volume 238, October 2023, 109433. doi: <https://doi.org/10.1016/j.res.2023.109433> .
5. E. Athanasiadis, V.P. Koutras, V. Zeimpekis (2023). Dataset for the van-drone routing problem with multiple delivery drop points. *Data in Brief*. Vol. 48, 2023, 109192, ISSN 2352-3409. doi: <https://doi.org/10.1016/j.dib.2023.109192>
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7. 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>
8. 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](https://doi.org/10.1504/EJIE.2021.10035757)
9. 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>.
10. 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>.
11. 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>
12. 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.res.201701.002](https://doi.org/10.1016/j.res.201701.002).
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20. 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>
21. 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>
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Book Chapters

23. V.P. Koutras, A.N. Platis. (2025). A multi-granularity smart rejuvenation framework for a two-unit series system. In: *Triantafyllou, I., Malefaki, S., Karagrigoriou, A. (eds) Stochastic Modeling And Statistical Methods-Advances and Applications, Academic Press, Copyright © 2025 Elsevier Inc*, Pages 277-297.
24. P.M. Psomas, A.N. Platis. (2022). Optimizing the Maintenance Strategy for Offshore Wind Turbines Blades Using Opportunistic Preventive Maintenance. In: *Zamojski, W., Mazurkiewicz, J., Sugier, J., Walkowiak, T., Kacprzyk, J. (eds) New Advances in Dependability of Networks and Systems. DepCoS-RELCOMEX 2022. Lecture Notes in Networks and Systems, vol 484. Springer, Cham*. doi: https://doi.org/10.1007/978-3-031-06746-4_22
25. 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. Karagrigoriou & C. Skiadas (Eds.), Data Analysis and Applications 4, Vol. 6, iSTE WILEY, London*, Pages 119-154.
26. V.P. Koutras, and A.N. Platis. (2020). Software Rejuvenation: Key Concept sand 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.
27. 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.
28. 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

29. V.P. Koutras. Two-Level Software Rejuvenation Model with Increasing Failure Rate Degradation, *Dependable Computer Systems, Advances in Intelligent and Soft Computing Vol. 97*, Springer-Verlag Berlin Heidelberg, Pages 101-115, (2011). doi: [10.1007/978-3-642-21393-9_8](https://doi.org/10.1007/978-3-642-21393-9_8)

International Conferences Proceedings (with review)

30. E. Athanasiadis, V.P. Koutras, V. Zeimpekis (2023). Solving the van-drone routing problem with multiple delivery drop points. *Proceedings of the 9th International Symposium & 31st National Conference on Operational Research (HELORS 2023)*, June 29-30 and July 1, Athens, Greece, Pages 182-187
31. 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](https://doi.org/10.3850/978-981-18-5183-4_R29-12-226-cd)
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33. I. Mitrofanis 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 Zio* Copyright : ESREL2020-PSAM15Organizers. Published by Research Publishing, Singapore. ISBN/DOI : 978-981-14-8593-0, Venice, Italy, 1-6 November 2020.
34. 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 Zio* Copyright : ESREL2020-PSAM15Organizers. Published by Research Publishing, Singapore. ISBN/DOI : 978-981-14-8593-0, Venice, Italy, 1-6 November 2020.
35. 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 Zio* Copyright : ESREL2020-PSAM15Organizers. Published by Research Publishing, Singapore. ISBN/DOI : 978-981-14-8593-0, Venice, Italy, 1-6 November 2020.
36. 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.
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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](https://doi.org/10.1109/SMRLO.2016.21)

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51. 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).
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 53. V.P. Koutras, S. Malefaki, A.N. Platis. A Monte Carlo Simulation Based Dependability Analysis of a non-Markovian Grid Computing Environment with Software Rejuvenation, *Advances in Safety, Reliability and Risk Management - Proceedings of the European Safety and Reliability Conference, ESREL 2011*, Pages: 1959-1966, (2011), doi: [10.1201/b11433-276](https://doi.org/10.1201/b11433-276).
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 57. V.P. Koutras, C.S. Salazaras, 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>.
 58. 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).
 59. 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).
 60. 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).
 61. V.P. Koutras, A.N. Platis, N. Limnios. Availability and Reliability Estimation for a System Undergoing Minimal, Perfect and Failed Rejuvenation, *First International Workshop on Software Aging and Rejuvenation WOSAR 2008 in conjunction with 19th IEEE International Symposium on Software Reliability Engineering ISSRE 2008*, *IEEE Xplorer*, Pages 1-6, (2008), doi: [10.1109/ISSREW.2008.5355519](https://doi.org/10.1109/ISSREW.2008.5355519).
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67. V.P. Koutras, A.N. Platis. VoIP Availability and Service Reliability through Software Rejuvenation Policies, *2nd International Conference on Dependability of Computer Systems (DepCoS-RELCOMEX '07)*, © 2007, IEEE Computer Society Press, Pages 262-269, (2007), doi: [10.1109/DEPCOS-RELCOMEX.2007.54](https://doi.org/10.1109/DEPCOS-RELCOMEX.2007.54).
68. 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).
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70. V.P. Koutras, A.N. Platis. Applying software rejuvenation in a two node cluster system for high availability, *International Conference on Dependability of Computer Systems (DEPCOS-RELCOMEX'06)*, (ed.)© 2006, IEEE Computer Society Press, , Pages 175-182, (2006), doi: [10.1109/DEPCOS-RELCOMEX.2006.7](https://doi.org/10.1109/DEPCOS-RELCOMEX.2006.7).
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72. 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).
73. 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

74. A. Simeonidou, P. Psomas, V.P. Koutras (2025). A Markov Regenerative Process for Modeling the Dependability and Performance of a Wind Turbine under the Effects of Wind Intensity. *International Conference on RA (Risk Analysis)*
75. V. P. Koutras, S. Malefaki, P. M. Psomas, A. N. Platis (2023). Modelling wind intensity effects on wind turbine maintenance policies, *35th Panhellenic & the 1st International Statistics Conference (ESI223)*. *Invited Speaker*.
76. 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*.
77. 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*.
78. 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.
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