

Publications

International Journals

1. P.M. Psomas, A.N. Platis, V.P. Koutras and I.K. Dagkinis (2026). System-Level Maintenance Strategy for Offshore Hybrid Renewable Energy Systems Based on Cyclic Non-Homogeneous Markov Chain Modelling, *Sustainable Energy Technologies and Assessment*. *accepted*
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Book Chapters

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International Conferences Proceedings (with review)

31. Anna S. Symeonidou, Vasilis P. Koutras, (2026). Stochastic Modeling and Operational Analysis of a Hybrid Wind-Wave Power Generation System Using Markov Regenerative Techniques. In *Proceedings of the 38th Panhellenic and 4th International Statistics Conference*, April 16-19, Thessaloniki, Greece. *to appear*
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39. 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-PSAM15 Organizers. Published by Research Publishing, Singapore. ISBN/DOI : 978-981-14-8593-0, Venice, Italy, 1-6 November 2020.

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Conference Presentations

78. A. Simeonidou, V.P. Koutras (2026). Dependability and performance evaluation of a hybrid wind-wave power generation system using a markov regenerative process. *38th Panhellenic and 4th International Statistics Conference*, Thessaloniki, April 16–19, 2026

79. 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)*
80. 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*.
81. 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*.
82. 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*.
83. 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.
84. 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)**
85. S. Malefaki, V. P. Koutras, A.N. Platis. Optimization of Maintenance Policies for Technological Systems, *28th Panhellenic Statistics Conference*, (2015). **(in greek)**
86. 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.
87. V.P. Koutras, S. Malefaki, A. N. Platis. Dependability Analysis of a Software Rejuvenation Model Based on Monte Carlo Simulation, *24^o Panhellenic Statistics Conference*, (2011).