

(Update: 09 October 2020)

List of Journal Papers & Book Chapters

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Books

- **M. A. Mellal.** Soft computing methods for system dependability. IGI Global, USA, 2020. ISBN: 9781799817185
- **M. A. Mellal.** Mechatronic systems: Design, performance and applications. Nova Science Publishers, USA, 2019. ISBN: 978-1-53614-530-4
- **M. A. Mellal.** Electronique générale: Notes de cours avec exercices corrigés. PAF Edition, Germany, 2015. ISBN: 978-3841636775.

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- **M. A. Mellal** and A. Salhi. Parallel-series system optimization by weighting sum methods and nature-inspired computing, in Applied Nature-Inspired Computing: Algorithms and Case Studies, pp. 231-251, Springer Singapore, 2019. ISBN: 978-981-13-9262-7
- **M. A. Mellal** and E. J. Williams. Large-scale reliability-redundancy allocation optimization problem using three soft computing methods, in Modeling and Simulation Based Analysis in Reliability Engineering, pp. 183-198, CRC Press Taylor & Francis Group, 2018. ISBN: 978-1-138-57021-4
- **M. A. Mellal** and E. J. Williams. A survey on ant colony optimization, particle swarm optimization, and cuckoo algorithms, in Handbook of Research on Emergent Applications of Optimization Algorithms, pp. 37-50, IGI Global, 2018. ISBN: 9781522529903
- **M. A. Mellal** and E. J. Williams. The cuckoo optimization algorithm and its applications, in Handbook of Neural Computation, pp. 269-277, Elsevier, 2017. ISBN: 9780128113189

Journal Papers

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- **M. A. Mellal**. Obsolescence – A review of the literature, *Technology in Society*, Vol. 63, pp. 101347, 2020. Elsevier
- **M. A. Mellal**, M. Pecht. A multi-objective design optimization framework for wind turbines under altitude consideration, *Energy Conversion and Management*, Vol. 222, pp. 113212, 2020. Elsevier
- **M. A. Mellal**, S. Al-Dahidi, E. J. Williams. System reliability optimization with heterogeneous components using hosted cuckoo optimization algorithm, *Reliability Engineering & System Safety*, Vol. 203, pp. 107110, 2020. Elsevier
- **M. A. Mellal**, E. Zio. System reliability-redundancy optimization with cold-standby strategy by an enhanced nest cuckoo optimization algorithm, *Reliability Engineering & System Safety*, Vol. 201, pp. 106973, 2020. Elsevier
- **M. A. Mellal**, E. Zio, E. J. Williams. Cost minimization of repairable systems subject to availability constraints using efficient cuckoo optimization algorithm, *Quality and Reliability Engineering International*, 2020. DOI: 10.1002/qre.2617. Wiley
- **M. A. Mellal**, E. J. Williams. Optimal replacement strategy of obsolete industrial components under fuzzy data, *Journal of Systems and Control Engineering*, Vol. 234, No. 3, pp. 349-357, 2020. SAGE Publications
- **M. A. Mellal**, A. Salhi, E. J. Williams. Accelerated cuckoo optimization algorithm for the multi-objective welding process, *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, Vol. 42, No. 6, pp. 1-9, 2020. Springer
- **M. A. Mellal**, E. Zio. An adaptive cuckoo optimization algorithm for system design optimization under failure dependencies, *Journal of Risk and Reliability*, Vol. 233, No. 6, pp. 1099-1105, 2019. SAGE Publications
- **M. A. Mellal**, E. Zio. An adaptive particle swarm optimization method for multi-objective system reliability optimization, *Journal of Risk and Reliability*, Vol. 233, No. 6, pp. 990-1001, 2019. SAGE Publications
- **M. A. Mellal**, E. J. Williams, A discussion on “A GSO-based algorithm for combined heat and power dispatch problem with modified scrounger and ranger operators,” *Applied Thermal Engineering*, Vol. 125, pp. 91-93, 2017. Elsevier
- **M. A. Mellal**, E. Zio, A penalty guided stochastic fractal search for system reliability optimization, *Reliability Engineering & System Safety*, Vol. 152, pp. 213-227, 2016. Elsevier

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- **M. A. Mellal**, E. J. Williams. Parameter optimization of advanced machining processes using cuckoo optimization algorithm and hoopoe heuristic, *Journal of Intelligent Manufacturing*, Vol. 27, pp. 927-942, 2016. Springer
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