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List of Journal Papers & Book Chapters

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Books

- **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.

Book Chapters

- **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

- **M. A. Mellal** and 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** and E. Zio, A penalty guided stochastic fractal search for system reliability optimization, *Reliability Engineering & System Safety*, Vol. 152, pp. 213–227, 2016. ELSEVIER

- **M. A. Mellal** and E. J. Williams. Total production time minimization of a multi-pass milling process via cuckoo optimization algorithm, *International Journal of Advanced Manufacturing Technology*, Vol. 87, pp. 747–754, 2016. SPRINGER
- Y. Touati, **M. A. Mellal**, and D. Benazzouz. Multi-thresholds for fault isolation in presence of uncertainties, *ISA Transactions*, Vol. 62, pp. 299–311, 2016. ELSEVIER
- **M. A. Mellal** and 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
- **M. A. Mellal** and E. J. Williams. Cuckoo optimization algorithm with penalty function for combined heat and power economic dispatch problem, *Energy*, Vol. 93, pp. 1711–1718, 2015. ELSEVIER
- **M. A. Mellal** and E. J. Williams. Cuckoo optimization algorithm for unit production cost in multi-pass turning operations, *International Journal of Advanced Manufacturing Technology*, Vol. 76, No. 1-4, pp. 647–656, 2015. SPRINGER
- **M. A. Mellal** and E. J. Williams. A robust bond graph model based real time monitoring and fault diagnosis for CNC machines, *J. Cont. Eng. Tech.*, Vol. 3, No. 4, pp. 199–203, 2013.
- **M. A. Mellal**, S. Adjerid, and E. J. Williams. Optimal selection of obsolete tools in manufacturing systems using cuckoo optimization algorithm, *Chem. Eng. Trans.*, Vol. 33, No. 1, pp. 355–360, 2013.
- **M. A. Mellal**, S. Adjerid, D. Benazzouz, S. Berrazouane, E. J. Williams. Obsolescence optimization of electronic and mechatronic components by considering dependability and energy consumption, *J. Cent. South. Univ.*, Vol. 20, No. 5, pp. 1221–1225, 2013. SPRINGER
- **M. A. Mellal**, S. Adjerid, D. Benazzouz, S. Berrazouane, E. J. Williams. Optimal Policy for the Replacement of Industrial Systems Subject to Technological Obsolescence – Using Genetic Algorithm, *Acta. Polytech. Hung.*, Vol. 10, No. 1, pp. 197–208, 2013.
- **M. A. Mellal**, S. Adjerid, E. J. Williams, D. Benazzouz. Optimal replacement policy for obsolete components using cuckoo optimization algorithm based-approach: Dependability context, *J. Sci. Ind. Res.*, Vol. 71, No. 11, pp. 715–721, 2012.
- H. Mokhtari, **M. A. Mellal**, I. Belaidi, S. Alem, S. Berrazouane, M. Ouziala. Genetic algorithm for multiobjective optimization: Applied in high speed machining milling operation, *Prec. Inst. Mech.*, Vol. 1, No. 1, pp. 28–31, 2012.
- **M. A. Mellal**, S. Adjerid, D. Benazzouz. Modeling and simulation of mechatronic system to integrated design of supervision: Using a bond graph Approach, *Appl. Mech. Mater.*, Vol. 86, pp. 467–470, 2011.