List of Publications of Prof. A. Bouras (in chronological order, starting with the most recent)

(A) INTERNATIONAL REFEREED JOURNALS

1. N. Seddari, A. Derhab, M. Belaoued, W. Halboob, J. Al-Muhtadi, and A. Bouras, "A Hybrid Linguistic and Knowledge-Based Analysis Approach for Fake News Detection on Social Media," in *IEEE Access*, 2022, doi: 10.1109/ACCESS.2022.3181184 (ISI journal: IF 3.367)

2. N Bougueroua, S Mazouzi, M Belaoued, N Seddari, A Derhab, A Bouras , "A Survey on Multi-Agent Based Collaborative Intrusion Detection Systems", J. Artif. Intell. Soft Comput. Res. 11 (2), 111-142 1 2021

3. N Seddari, S Boukelkoul, A Bouras, M Belaoued, M Redjimi, "A new transformation approach for complex systems modeling and simulation: application to industrial control system International Journal of Simulation and Process Modelling", 16 (1), 34-48 2 2021

4. A Derhab, A Bouras, M Belaoued, L Maglaras, FA Khan, "Two-Hop Monitoring Mechanism Based on Relaxed Flow Conservation Constraints against Selective Routing Attacks in Wireless Sensor Networks", Sensors 20 (21), 6106, 2021 (ISI journal: IF 3.0)

5. Khalid Alnowibet, Nabil Alrajeh, Abdelghani Bouras, and Luigi Guiso, "Optimal Academic Department Faculty Staffing to Meet Quality and Accreditation Standards in Saudi Arabia",
J. Comput. Theor. Nanosci. Volume 14, Number 4, April 2017, pp. 1948-1964 (17)

6. M.A. Louly, A. Gharbi, M. N. Azaiez, A. Bouras, Ayman Mostafa, Abdelaty Sayed, "A Staffing Tool to Improve Efficiency at a Nursing Department", Int. Journal of Engineering Research and Application www.ijera.com ISSN: 2248-9622, Vol. 7, Issue 1, (Part -1) January 2017, pp.91-96

7. Abdelghani Bouras "Using goal linear programming to manage natural gas take-or-pay contract clauses in electricity generation", Journal of Natural Gas Science and Engineering, Volume 35, Part A, September 2016, Pages 1228–1238

8. Abdelghani Bouras, R. Hedjar, and L. Tadj. "Production Planning in a Three-Stock Reverse-Logistics System with Deteriorating Items under a Periodic Review Policy", Journal of Industrial and Management Optimization (JIMO), Volume 12, Issue 3, Pages: 1075 – 1089 July 2016   (Impact factor 0.843)

9. Abdelouahid Derhab and Abdelghani Bouras, "Lightweight Anomaly-based Intrusion Detection System for Multi-Feature Traffic in Wireless Sensor Networks", accepted for publication in 2016 at Ad Hoc & Wireless Sensor Networks (Impact factor 0.435)

10. A. Bouras, and L. Tadj, "Production planning in a three-stock reverse-logistics system with deteriorating items under a continuous review policy", Journal of Industrial and Management Optimization (JIMO), Volume 11, Number 4, October 2015 pp. 1041-1058 (Impact factor 0.843)

11. A. Bouras," Quality tools to improve the communication level in the surgery department at a local hospital", Computers in Human Behavior 51 (2015) 843–851 (Impact factor 2.694).

12. A. Derhab and A. Bouras, "Multivariate correlation analysis and geometric linear similarity for real-time intrusion detection systems", SECURITY AND COMMUNICATION NETWORKS (2015); 8:1193–1212 (Impact factor 0.720)

13. A. Bouras," Optimal Control for Advertised Production Planning in a Three-Level Stock System with Deteriorating Items: Case of a Continuous-Review Policy", Arabian Journal for Science and Engineering, September 2015, Volume 40, Issue 9, pp 2829-2840 (Impact factor 0.367)

14. Derhab, Abdelouahid; Bouras, Abdelghani; Senouci, Mustapha Reda; et al., "Fortifying Intrusion Detection Systems in Dynamic Ad Hoc and Wireless Sensor Networks". International Journal of Distributed Sensor Networks. 2014 (Impact factor 0.923).

15. Abdelghani Bouras, Mageed A. Ghaleb, Umar S. Suryahatmaja, and Ahmed M. Salem, "The Airport Gate Assignment Problem: A Survey", In press, October 2014, The Scientific World Journal (Impact Factor 1.219)

16. A. Bouras and S. Bendak, "Managing IT Projects in Public Companies: A Case Study", accepted for publication in September 2013 at "Journal of Engineering, Project, and Production Management".

17. A. Bouras, W. P. Syam « Hybrid Chaos Optimization and Affine Scaling Search for solving Linear Programming », Applied Soft Computing, Applied Soft Computing 13 (2013) 2703–2710 (Impact factor 2.61)

(B) BOOK CHAPTERS

1. Bouras A. (2018) Optimal Selection of Superlative Candidates for Open Positions Using Linear Programming. In: Tadj L., Garg A. (eds) Emerging Challenges in Business, Optimization, Technology, and Industry. Springer Proceedings in Business and Economics. Springer, Cham

2. Mohamed Belaoued, Abdelouahid Derhab, Nassira Chekkai, Abdelghani Bouras, Noureddine Seddari, Chikh Ramdane, and Zahia Guessoum, "Deep Learning for Malware Analysis", accepted for publication in For the Book" Cyber Malware - Offensive and Defensive Systems", in Spring Nature, Academic Editors: Dr. Iman Almomani, Dr. Leandros Maglaras, Dr. Mohamed Amine Ferrag, and Dr. Nick Ayres, 2022

(C) CONFERENCE PAPERS

1. Abdelghani Bouras, "A two-stage method for an industrial NP-hard bin packing problem", 10th International Congress on Industrial and Applied Mathematics (ICIAM 2023), August 20th - 25th, 2023 at Waseda University, Tokyo, Japan.

2. Noureddine Seddari, Sohaib Hamioud, Abdelghani Bouras, Sara Kerraoui, and Nesrine Menai, "Agent-based Modeling and Simulation of Complex Industrial Systems: Case Study of the Dehydration Process", accepted for publication at the 8th International Conference on Signal, Image Processing and Embedded Systems (SIGEM 2022), November 19 ~ 20, 2022, Zurich, Switzerland

3. Sadeem Al-Marri & Abdelghani Bouras, "AI-Based Analysis for Industry 4.0 Maturity Models – A Systematic Review and Bibliometric Analysis", Proceedings of the 12th Annual International Conference on Industrial Engineering and Operations Management (IEOM), Istanbul, Turkey on March 7-10, 2022. "

4. Malek Almobarek, Sobhi Mejjaouli, Abdelghani Bouras & Abdalla Alrshdan, "AHP-Based Decision Support System for Elevators Selection", Proceedings of the 11th Annual International Conference on Industrial Engineering and Operations Management Singapore, March 7-11, 2021, © IEOM Society International.

5. Fatima Ezzahra Achamrah, Fouad Riane, Abdelghani Bouras, and Evren Sahin, "Collaboration Mechanisms for Shared Returnable Transport Items in Closed-Loop Supply

Chains", the ninth International Conference on Operations Research and Enterprise Systems (ICORES 2020), Valletta, Malta, 22-24 Feb 2020.

6. Ali Attajer, Saber Darmoul, Fouad Riane, Abdelghani Bouras, "Smart/Intelligent Products from a Maintenance Engineering Perspective: A Literature Analysis", 9th IFAC Conference on Manufacturing Modelling, Management and Control, MIM2019, Berlin, Germany

7. Fatima Ezzahra Achamrah, Abdelghani Bouras, Fouad Riane, and Saber Darmoul, "A Mixed Linear Programming Model for Returnable Transport Items Management: A New Approach to Sidestep Shortage", 7th IEEE Int. Conf. on Advanced Logistics & Transport, June 14-16, 2019 – Marrakech, Morocco

8. A. Bouras, and L. Tadj, "Production planning in a closed-loop supply chain with deteriorating items", The Western Business & Management Association International Research Conference for the Management Disciplines, San Francisco, California, April 10-11, 2015

9. A. Bouras, and N. Cherfi, "A new optimization model for techno-economic studies in the case of hybrid energy", Modeling and Optimization: Theory and Applications Conference, MOPTA 2015, Bethlehem, USA, 20-22 July 2015.

10. M. Louly · A. Gharbi · M. N. Azaiez, Abdelghani Bouras, "A Nurse Staffing Analysis at the Largest Hospital in the Gulf Region", The 3rd International Conference On Quantitative Sciences and Its Applications (ICOQSIA 2014). 12-14 August 2014, Langkawi, Malaysia; 08/2014

11. A. Derhab, A. Bouras, F. Bin Muhaya, M. Khurram Khan, and Y. Xiang, "Spam Trapping System: Novel Security Framework to Fight against Spam Botnets", accepted paper, International Conference on Telecommunications 2014, Telecommunications: Cooperation for a United World, 5-7 May 2014, Lisbon, Portugal

12. Abdelghani Bouras, "A Two-Stage Method for the Variable Bin Packing Problem with Conflicts: An Application for Batch Annealing in Steel Industry", The twentieth International Conference on Industry, Engineering, and Management Systems (IEMS 2014), 24-26 March 2014, Cocoa Beach, Florida, USA.

13. A. Bouras, A. Al Sayyud, "Short-Term Load Forecast at Saudi Electricity Company Central Operating Area (COA) using ANFIS", The twentieth International Conference on Industry, Engineering, and Management Systems (IEMS 2014), 24-26 March 2014, Cocoa Beach, Florida, USA.

14. A. Gharbi, M. Louly, M. N. Azaiez, and A. Bouras, "Goal-Programming Models for Nurse Scheduling at Two Critical Intensive Care Units", Proceedings, WSCAR' 2014, World Symposium on Computer Applications & Research, 18-20 January 2014, Sousse, Tunisia.

15. A. Derhab, A. Bouras, « Combining Similarity and Dissimilarity: a Novel Approach for the Anomaly Intrusion Detection », Proceedings of WIAR'12, IEEE Computer Society, April 18, 2012, Riyadh, Saudi Arabia.

16. A. Gharbi, M. Louly, M. N. Azaiez, A. Bouras, « Goal-Programming Models for Nurse Scheduling

17. Assessment of Two Critical Intensive Care Units », INFORMS Healthcare 2011, June 20-22, 2011 Hilton Bonaventure Montreal, Canada

18. A. Bouras « Algebraic Approach of the Quadratic Assignment Problem », Al-Imam Muhammad Ibn Saud Islamic University, Faculty of Sciences, Riyadh, KSA, March 23-24, 2011

19. A. Belkhirat, A. Belkhir, A. Bouras « A new similarity measure for the profiles management», UKSim2011 Third International Conference on Network and 13th

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20. A. Bouras « The Cardinality Constrained Bin Packing Problem with Conflicts using Simulated Annealing: An Application for Batch Annealing in the Steel Industry », ALIO-INFORMS joint international meeting, Buenos Aires, Argentina 6-9 June 2010

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22. A. Bouras « On the Use of Simulated Annealing Algorithm for Balancing Hydraulic Turbines » (conference paper), Third International Conference on Modeling, Simulation, and Applied Optimization (ICMSAO'09), American University of Sharjah, UAE, January 20-22 2009.

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24. A. Bouras, A. Foul and L.Tadj « Optimal and Self-Tuning Control of an Advertising Production System », STCEX06 (with proceedings), Riyadh, Saudi Arabia, Dec 2-6 2006

25. A. Bouras, « On optimizing the load in an electric furnace for Aluminum Industry using a MIP model », OR2004 – Symposium On Operations Research, Tilburg University, the Netherlands, September 1-3, 2004

26. A. Bouras, « A Mixed-Linear Programming Model for Coal Freight », TraLog – Transportation and Logistics: Bridging the Gap between Modeling Traditions, Molde, Norway, August 25 -27, 2004.

27. A. Bouras, G. Finke, «Low-Rank Quadratic Assignment Problems », International Symposium on Mathematical Programming (ISMP 97), Lausanne, 1997.

28. A. Bouras, G. Finke, « Sur la complexité du problème d'affectation quadratique de rang 1 », 3ème journée du groupe MODE (Mathématiques de l'optimisation et de la décision), Brest, France, 1995.

29. A. Bouras, G. Finke, « Cas particuliers du problème d'affectation quadratique », Journées Graphes et Combinatoire, Aussois, France, 1995.

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31. A. Bouras, G. Finke, « Remarks on eigenvalues related bounds for Quadratic Assignment Problem », DIMACS, Rutgers, USA, May 20-21 1993.

32. A. Bouras, « Problème d'affectation quadratique » 4ème colloque maghrébin sur les modèles numériques de l'ingénieur, Alger, Algérie 1993.

A. Bouras, « Problème d'affectation quadratique, application aux matrices de rang 1 » 3ème rencontre Franco-Algérienne de recherche opérationnelle, Algiers, Algeria, May 8-12 1992.