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Scholar Google h-index = 14, i-index = 17

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Scopus H-index: 11 (2022), WOS H-index: 10 (2022),

Personal information

1. Birth date 07/01/1973, Nabeul, Tunisia.
2. Married, Father., IEEE Senior Member.

Education Details

University Habilitation in Electrical Engineering, HDR, “Meta-heursitics with applications”, March the third 2023, National school of engineers of Sfax, University of Sfax, Sfax, Tunisia.

PhD, Electrical Engineering, « PSO based Biped Gait Generation system, PSO-BiGG », English Dissertation, English thesis, April 2014, ENIS, Tunisia. “Mention très honorable”. National school of engineers of Sfax, University of Sfax, Tunisia.

Master of automatic control and industrial computing, “On line signature verification”, French dissertation, Highest honours: (“Mention Très Bien”), November 2003. National school of engineers of Sfax, University of Sfax, Tunisia,

Certificate of specialized High studies in electrical engineering, High School of Sciences and Techniques of TUNIS, Tunis. Jun 1997.

Diploma of electrical engineering, National school of engineers of Tunis, University Tunis el Manar, Tunis, Tunisia, Juin 1995.

Teaching

1. **Graduate studies & Master Classes(English courses):** Computational techniques for Robotics, Computational intelligence, Computational intelligence tools and applications,
2. **Undergraduate classes(French courses):** Digital Electronics, Programmable Logic Controllers - PLC's & industrial automations, Robotics, Microcontrollers architecture, Industrial control systems based on microcontrollers, Embedded systems and embedded electronics applications.

Research

- Swarm algorithms design, Particle swarm optimization, Computational intelligence techniques and their applications.
- Optimization and Engineering optimization problems, Computational intelligence techniques for inverse kinematics & Robotics.

Professional experiences

3. 2024- current Associate Prof of Electrical Engineering- ISSAT Sousse.
4. 2015- 2024 Assistant Prof of Electrical Engineering (Industrial Comp & Automation) High institute of science and technologies of Sousse (ISSAT Sousse), Tunisia
5. 2011- 2013 Assist Lecturer of electrical engineering High institute of science and technologies of Sousse, Tunisia
6. 2005– 2011 Assist Lecturer of electrical engineering Department of physics, faculty of sciences of Gabes, Tunisia
7. 2002-2005 Consultant in Learning engineering

Tunisian Agency of vocational training « ATFP »

8. 1998–2002 Assistant Prof of technology
High institute of technologic studies of Nabeul & Gabes

Volunteering with non Gov Organizations

1. 2023- Member, IEEE Educational Activities, Pre-University Education Coordination Committee (PECC).
2. 2022- **Chair**, IEEE R8 humanitarian Committee for Crisis, IEEE Region 8
3. 2022- **Member**, IEEE educational activities working group on Try Engineering lesson plans
4. 2021-2022 **Ambassador**, IEEE STEM for IEEE Region 8
5. 2021-2022 **Member**, IEEE R8 Professional and educational activities Committee Continuous education, IEEE Region 8.
6. 2021-2020 **Member** , IEEE R8 Professional and educational activities Committee for university activities
7. 2019-2022(April) **Chair**, IEEE SIGHT Tunisia Section Group, IEEE Tunisia Section, Tunisia
8. 2019-2022(April) **Chair**, IEEE HAC, Robotics for Equality and Democracy program. Tunisia.
9. 2015-2020 **Chair**, IEEE Robotics and Automation Society Tunisia Chapter.
10. 2015- 2017 **Member**, Tunisia University Consortium for Space Technologies.
11. 2015- 2016 **Chair**, IEEE Robotics and Automation Society Tunisia Chapter.
12. 2015-2016 **Treasurer**, IEEE Tunisia Section.
13. 2015- 2022 **Counsellor**, IEEE ISSAT Sousse Student Branch.
14. 2014-2015 **President**, TunArduino Association for Embedded systems, academic and scientific activities.
15. 2013-2014. **Executive Committee Member**, IEEE RAS Tunisia Chapter, (Volunteer position).
16. 2013- 2014 **Executive Committee Member**, IEEE SMC Tunisia Chapter, (Volunteer position).
17. 2012- 2013 **Scientific Mentor**, IEEE RAS SAC LC, (Volunteer position).
18. 2009-2010 **Executive Committee Member**, IEEE RAS Tunisia Chapter, (Volunteer position).

Awards & Recognitions

- i. **Meritorious Achievement Award in Pre-University Education, IEEE Educational Activities Board 2019, IEEE, USA.** “For significantly increasing the impact of the IEEE Teacher In-Service Program (TISP) in Tunisia through the Robotics for Democracy program.”
- ii. **IEEE R8 Chapter of the year 2019 Award, IEEE Region 8** for RAS Tunisia Chapter, 2019
- iii. **IEEE Robotics and Automation Society, Chapter of the Year Award, 2017, ICRA’2017, Singapore.**
- iv. **IEEE R8 Chapter of the year 2016 Award, IEEE R8** for RAS Tunisia Chapter, 2016, **Stockholm, Sweden.**
- v. **IEEE Outstanding counsellor Award, 2016, with IEEE Issat Sousse Student Branch, IEEE USA.**
- vi. National Start Ups competition 2015 coaching, Third **position for the project: “harvesting Robotics”**, Tunisian Agency of vocational training, **Tunis, Tunisia.**
- vii. Wheeled robot for obstacles avoidance, **Winner**, Robocomp 2011, December 2011, Hammamet, Tunisia.
- viii. Tunisia.
- ix. Biped robot race, **Second runner up**, Robocomp 2010, April 2010, Sfax, Tunisia.
- x. IEEE RAS Tunisia Chapter special award for robotic design, Robocomp 2010, April 2010, Sfax, Tunisia.

- xi. **IEEE RAS Tunisia Chapter student paper contest**, second runner, National Engineering school of Sfax, ENIS, 2010, Sfax, Tunisia.

Teaching activities details

High institute of science and technologies of Sousse (ISSAT), Tunisia (2011-2024). *French is the official teaching language out of indication.*

- ✓ Embedded Systems and electronics based for industrial applications (2021-2022)
- ✓ Computational intelligence techniques for Robotics (Master Course, Mechanical engineering, English Course) (2020-2022)
- ✓ Artificial intelligence techniques and applications, (Master Course, Embedded systems and micro-electronics systems, English Course).(2019-2022)
- ✓ Microcontroller's applications design, (Licence Module). (2018-2017)
- ✓ Process Automation programming, PLC and microcontrollers, (Licence Module). (2011-2015)
- ✓ Architecture of micro-systems: ARM & embedded Applications, (Licence Module). (2018-2017)
- ✓ Digital electronics, (Licence Module). (2011-2014)

National School of engineering of SFAX, Tunisia (2008-2011) "visiting reader"

- ✓ Architectures and design of Embedded Systems, (Engineering Course).
- ✓ Introduction to Robotics, (Engineering Course).

Faculty of Sciences of Gabes, Tunisia (2005-2011)

- ✓ Microcontrollers (PIC prototyping and programming) , (Licence Module).
- ✓ Digital Electronics, (Licence Module).
- ✓ Introduction to assembler Programming (X86), (Licence Module).
- ✓ Process automation , (Licence Module).

Journal papers

1. Ibrahim, H. K., Rokbani, N., Wali, A., Ouahada, K., Chabchoub, H., & Alimi, A. M. (2024). A Medical Image Classification Model based on Quantum-Inspired Genetic Algorithm. *Engineering, Technology & Applied Science Research*, 14(5), 16692-16700.
2. Slim, M., Rokbani, N., Neji, B., Terres, M. A., & Beyrouthy, T. (2023). Inverse Kinematic Solver Based on Bat Algorithm for Robotic Arm Path Planning. *Robotics*, 12(2), 38. (Scopus Q1, WOS-CLARIVATE IF: 3.7)
3. Aboud, A., Rokbani, N., Fdhila, R., Qahtani, A. M., Almutiry, O., Dhahri, H., ... & Alimi, A. M. (2022). DPb-MOPSO: A dynamic Pareto bi-level Multi-objective Particle Swarm Optimization Algorithm. *Applied Soft Computing*, 109622. <https://doi.org/10.1016/j.asoc.2022.109622> , (Scopus Q1, WOS-CLARIVATE IF: 8.26)
4. Aboud, A., Rokbani, N., Neji, B., Barakeh, Z. A., Mirjalili, S., & Alimi, A. M. (2022). A Distributed Bi-Behaviors Crow Search Algorithm for Dynamic Multi-Objective Optimization and Many-Objective Optimization Problems. *Applied Sciences*, 12(19), 9627. <https://doi.org/10.3390/app12199627> , (Scopus Q2, WOS-CLARIVATE IF: 2.7)
5. Rokbani N, Neji B, Slim M, Mirjalili S, Ghandour R. A Multi-Objective Modified PSO for Inverse Kinematics of a 5-DOF Robotic Arm. *Applied Sciences*. 2022; 12(14):7091. <https://doi.org/10.3390/app12147091>. (Scopus Q2, WOS-CLARIVATE IF: 2.7)
6. Nizar Rokbani, Raghvendra Kumar, Adel. M Alimi, Pham Huy Thong, Ishaani Priyadarshini, Viet Ha Nhu, Phuong Thao Thi Ngo (2022). Impacts of Heuristic Parameters in PSO Inverse Kinematics Solvers. *International Journal of Nonlinear Sciences and Numerical Simulation*, in press (Scopus Q2, WOS-CLARIVATE IF = 2.007).

7. Rokbani, N., Mirjalili, S., Slim, M. *et al.* A beta salp swarm algorithm meta-heuristic for inverse kinematics and optimization. *Appl Intell* (2022). <https://doi.org/10.1007/s10489-021-02831-3> (Scopus Q2, WOS-CLARIVATE IF: 5.01)
 8. Rokbani, N., Kumar, R., Abraham, A. *et al.* Bi-heuristic ant colony optimization-based approaches for traveling salesman problem. *Soft Comput* **25**, 3775–3794 (2021). <https://doi.org/10.1007/s00500-020-05406-5> (Scopus Q2, WOS-CLARIVATE IF:3.64)
 9. Chouikhi, N., Ammar, B., Rokbani, N., & Alimi, A. M. (2017). PSO-based analysis of Echo State Network parameters for time series forecasting. *Applied Soft Computing*, 55, 211-225 <https://doi.org/10.1016/j.asoc.2017.01.049> (ScopusQ1, WOS-CLARIVATE IF: 8.23).
 10. Rokbani, N., Kromer, P., Twir, I., & Alimi, A. M. (2020). A Hybrid Hierarchical Heuristic-ACO With Local Search Applied to Travelling Salesman Problem, AS-FA-Ls. *International Journal of System Dynamics Applications (IJSDA)*, 9(3), 58-73. [DOI: 10.4018/IJSDA.2020070104](https://doi.org/10.4018/IJSDA.2020070104) (WOS-Clarivate)
 11. Rokbani, N., Kromer, P., Twir, I., & Alimi, A. M. (2019). A new hybrid gravitational particle swarm optimisation-ACO with local search mechanism, PSOGSA-ACO-Ls for TSP. *International Journal of Intelligent Engineering Informatics*, 7(4), 384-398. <https://www.inderscienceonline.com/doi/abs/10.1504/IJIEI.2019.101565> (WOS-CLARIVATE IF : 6.3)
 12. Rokbani, N., Abraham, A., Twir, I., & Haqiq, A. (2019). Solving the travelling salesman problem using fuzzy and simplified variants of ant supervised by PSO with local search policy, FAS-PSO-LS, SAS-PSO-LS. *International Journal of Hybrid Intelligent Systems*, 15(1), 17-26. [DOI: 10.3233/HIS-180258](https://doi.org/10.3233/HIS-180258) (DBLP)
 13. Kefi, S., Rokbani, N., & Alimi, A. M. (2016). Hybrid metaheuristic optimization based on ACO and standard PSO applied to traveling salesman problem. *International Journal of Computer Science and Information Security*, 14(7), 802. (Scholar Google)
 14. Nizar Rokbani and Adel M Alimi, (2013) "Inverse Kinematics Using Particle Swarm Optimization, A Statistical Analysis.", Selected paper from ICONDM 2013, *Procedia Engineering* (Elsevier), 2013, vol. 64, p. 1602-1611. (Scopus)
 15. Nizar Rokbani and Adel.M Alimi, "IK-PSO, PSO Inverse Kinematics Solver with Application to Biped Gait Generation", *International Journal of Computer Applications*, Vol 58, Issue 22, November, FCS® (Foundation of Computer Science), 2012. (Scholar Google)
 16. Abdallah Zaidi, Nizar Rokbani, and Adel M. Alimi, "Neuro-Fuzzy Gait Generator for a Biped Robot", *Journal of Electronic Systems*, volume 2, issue 2, 2012. (Scholar Google)
1. Soussi Y., Rokbani N., Wali A., Alimi A.M. (2021) Multi-objective Quantum Moth Flame Optimization for Clustering. In: *Enabling Machine Learning Applications in Data Science. Algorithms for Intelligent Systems*. Springer, Singapore. https://doi.org/10.1007/978-981-33-6129-4_14
 2. Slim M., Rokbani N., Terres M.A. (2021) Rough Sets Crow Search Algorithm for Inverse Kinematics. In: *Enabling Machine Learning Applications in Data Science. Algorithms for Intelligent Systems*. Springer, Singapore. https://doi.org/10.1007/978-981-33-6129-4_16
 3. Rokbani N., Casals A., Alimi A.M. (2015) IK-FA, a New Heuristic Inverse Kinematics Solver Using Firefly Algorithm. *Computational Intelligence Applications in Modeling and Control. Studies in Computational Intelligence*, vol 575. Springer, Cham. https://doi.org/10.1007/978-3-319-11017-2_15

4. Nizar Rokbani, Boudour AMMAR CHERIF and Adel M. ALIMI. "Toward intelligent biped-humanoids gaits generation", "Humanoid Robots", *In-Tech Education and Publishing, Vienna*, Ben Choi (eds) 2009, Pages :259-271.

1. Mouna, C., Rokbani, N., Chaabane, H., & Mansouri, S. (2024, October). Toward a Neural-Meta Swarm for inverse kinematics, the Neural-Dragonfly Algorithm, N-DA. In *2024 IEEE International Conference on Artificial Intelligence & Green Energy (ICAIGE)* (pp. 1-6). IEEE.
2. Ibrahim, H. K., Rokbani, N., Wali, A., & Alimi, A. M. (2024, October). Deep Networks for Medical Images Classification, a Comparative Study. In *2024 IEEE International Conference on Artificial Intelligence & Green Energy (ICAIGE)* (pp. 1-6). IEEE.
3. Aboud, A., Rokbani, N., & Alimi, A. M. (2023, July). A Beta Multi-Objective Whale Optimization Algorithm. In *2023 IEEE Symposium on Computers and Communications (ISCC)* (pp. 876-879). IEEE.

Doi : <https://ieeexplore.ieee.org/abstract/document/10217944>

4. N. Rokbani, K. Shabou and K. Essifi, "Design and deployment of K-12 Educational Robotics Activities in Tunisia Public Primary Schools.," *2022 IEEE Global Engineering Education Conference (EDUCON)*, 2022, pp. 1121-1127,
Doi: [10.1109/EDUCON52537.2022.9766378](https://doi.org/10.1109/EDUCON52537.2022.9766378)
5. Rokbani, N., Slim, M., & Alimi, A. M. (2021, March). The Beta distributed PSO, β -PSO, with application to Inverse Kinematics. In *2021 National Computing Colleges Conference (NCCC)* (pp. 1-6). IEEE.
DOI : [10.1109/NCCC49330.2021.9428811](https://doi.org/10.1109/NCCC49330.2021.9428811)
6. Twir, I., Rokbani, N., & Alimi, A. (2018, March). Ant Supervised by Firefly Algorithm with a Local Search Mechanism, ASFA-2Opt. In *2018 International Conference on Control, Automation and Diagnosis (ICCAD)* (pp. 1-5). IEEE.
DOI: [10.1109/CADIAG.2018.8751328](https://doi.org/10.1109/CADIAG.2018.8751328)
7. Chaabane, H., Jaballah, W., & Rokbani, N. (2018, March). FPA Based Design of 2×1 Microstrip Antenna Array for CubeSat Communications. In *2018 15th International Multi-Conference on Systems, Signals & Devices (SSD)* (pp. 1055-1060). IEEE.
DOI: [10.1109/SSD.2018.8570539](https://doi.org/10.1109/SSD.2018.8570539)
8. Twir, I., Rokbani, N., Haqiq, A., & Abraham, A. (2017, December). Experimental Investigation of Ant Supervised by Simplified PSO with Local Search Mechanism (SAS-PSO-2Opt). In *International Conference on Soft Computing and Pattern Recognition* (pp. 171-182). Springer, Cham.
DOI: [10.1007/978-3-319-76357-6_17](https://doi.org/10.1007/978-3-319-76357-6_17)
9. Kefi, S., Rokbani, N., Krömer, P., & Alimi, A. M. (2016, November). A new ant supervised-PSO variant applied to traveling salesman problem. In *International Conference on Hybrid Intelligent Systems* (pp. 87-101). Springer, Cham.
DOI: [10.1007/978-3-319-27221-4_8](https://doi.org/10.1007/978-3-319-27221-4_8)
10. Kefi, S., Rokbani, N., Krömer, P., & Alimi, A. M. (2016, October). Ant supervised by PSO and 2-opt algorithm, AS-PSO-2Opt, applied to traveling salesman problem. In *2016 IEEE International Conference on Systems, Man, and Cybernetics (SMC)* (pp. 004866-004871). IEEE.
DOI: [10.1109/SMC.2016.7844999](https://doi.org/10.1109/SMC.2016.7844999)
11. Chouikhi, N., Fdhila, R., Ammar, B., Rokbani, N., & Alimi, A. M. (2016, July). Single-and multi-objective particle swarm optimization of reservoir structure in echo state network. In *2016 International Joint Conference on Neural Networks (IJCNN)* (pp. 440-447). IEEE.
DOI: [10.1109/IJCNN.2016.7727232](https://doi.org/10.1109/IJCNN.2016.7727232)

12. Naima Choukhi, Boubour Ammar, Nizar Rokbani and Adel M. Alimi. "A Hybrid Approach Based on Particle Swarm Optimization for Echo State Network Initialization", Accepted IEEE SMC 2015, October 2015, Hong Kong. [IEEE](#).
DOI: [10.1109/SMC.2015.504](https://doi.org/10.1109/SMC.2015.504)
13. Nizar Rokbani, A. Abraham, and A M. Alimi. "Fuzzy Ant Supervised by PSO and Simplified Ant Supervised PSO Applied to TSP.", in Proc of HIS 2013, Hammamet, Tunisia, December 2013(IEEEXplore).
14. Nizar Rokbani, AL Momasso, AM Alimi. "AS-PSO, Ant Supervised by PSO Meta-heuristic with Application to TSP", CEIT 2013, Proceedings Engineering & Technology-Vol 4, 148-152, 2013.
15. Abdallah Zaidi, Nizar Rokbani, Adel M. Alimi. "A hierarchical Fuzzy Controller for a Biped Robot", International Conference on Individual and Collective Behaviors in Robotics 2013, December 2013, Sousse, Tunisia, (IEEEXplore).
16. Nizar Rokbani, Abdallah Zaidi and Adel.M Alimi. "Prototyping a Biped Robot Using an Educational Robotics Kit", ICEELI'2012, International Conference on Education and E-Learning Innovations (IEEE), Sousse, Tunisia, June 2012, (IEEEXplore).
17. Boudour Ammar, Nizar Rokbani, Adel M Alimi. "Learning system for standing human detection", 2011 IEEE International Conference on Computer Science and Automation Engineering (CSAE), Shanghai, volume 4, pages 300-304, June 2011, (IEEEXplore).
18. Nizar Rokbani, E Ben Boussada, Boudour Ammar and Adel M. Alimi. "Biped Robot Control Using Particle Swarm Optimization". IEEE SMC 2010, Istanbul, Turkey. Digital Object Identifier 10.1109/ICSMC.2010.5642027, October 2010, (IEEEXplore).
19. Boudour .Ammar Cherif, Nizar. Rokbani and Adel.M ALIMI. "Human walkers' detection and localization", SCS 2009 (IEEE), Jerba, Tunisia, November 2009, (IEEEXplore).
20. Nizar Rokbani, E Ben Boussada and Adel M. Alimi. "Particle Swarms Optimization, for humanoid walking-gaits generation" , ADVANCES IN MOBILE ROBOTICS, World scientific, 2008, page(s): 744-751. Digital Object Identifier 10.1142/9789812835772_0090.
21. Nizar Rokbani, E Ben Boussada, Boudour Ammar and Adel M. Alimi. "From gaits to ROBOT, A Hybrid methodology for A biped Walker", MOBILE ROBOTICS Solutions and Challenges , World scientific, Proc of CLAWAR 2009, Istanbul, Turkey, 2009. Digital Object Identifier 10.1142/9789814291279_0084
22. Nizar Rokbani; Alimi Mohamed Adel; Ammar Boudour. "Architectural Proposal for a Robotized Intelligent humanoid, IZiman", Automation and Logistics, 2007 IEEE International Conference, 18-21 Aug. 2007, Page(s):1941–1946, (IEEEXplore).
23. Nizar Rokbani, Monji khérallah and ADEL ALIMI, "Global recognition of arabic words by graph matching and genetic algorithms", In Proc of ASIDCA 2005, TOZEUR, TUNISIA.
24. Nizar Rokbani and Adel Alimi. "Fingerprint Identification Using minutiae constellation matching", IADIS, multi conference on computer science and information systems (MCCSIS 2005), Avril 2005.
25. Nizar Rokbani and Adel Alimi. « Un Système de vérification des signatures manuscrites en ligne pour PDA », In Proc of CIFED 2004, La Rochelle, Juin 2004, France, (HAL France).
26. Nizar Rokbani and Adel Alimi. "Online signature verification", In Proc of SSD 2003, The Second IEEE International Conference on Signals, Systems, Decision & Information Technology (SSD'2003).Sousse, Mars 2003.

Conferences & Workshops boards

1. **Conf Chair, Ai Engineering Applications**, IEEE Int Conf on Artificial intelligence & Green Energy, 10-12 October, 2024, Tunisia.
2. **Track Chair, Ai Engineering Applications**, IEEE Int Conf on Artificial intelligence & Green Energy, 12-14 October, 2023, Tunisia.
3. **Publication Chair**, ICCAD'2019, Grenoble, France, 2019.

4. **Publication Chair**, ICCAD'2018, Marrakech, Morocco, 2018.
5. **Program Chair**, HIS Conference, Marrakech, Morocco, 2016.
6. **Program Chair**, ISA Conference, Marrakech, Morocco, 2015.
7. **Competition Chair**, Robocomp 2015, 5' International Robotics Competition, Mars 2015, Sousse, Tunisia.
8. **World Robotics Olympiads, WRO, Tunisia Local organiser**, Tunisia qualifications Competition Chair, October 2015, Sfax Tunisia.
9. **International Coordination Chair**, Ceit 2014, International Conference on Control, Engineering & Information Technology, mars 22-25, 2014, Sousse, Tunisia.
10. **International Coordination Chair**, Ceit 2013, International Conference on Control, Engineering & Information Technology, June 4-7, 2013, Sousse, Tunisia.
11. **Competition Chair**, Robocomp 2013, 4'th International Robotics Competition, December 16, Sousse, Tunisia.
12. **Publication Chair**, ICBR (2013), The 2013 International Conference on Individual and Collective Behaviors in Robotics, December 15, 16 and 17, 2013, Sousse, Tunisia.
13. **Competition Chair**, Robocomp 2012, 3' International Robotics Competition, December 22, Monastir, Tunisia.
14. **Homologation Chair**, Robocomp 2011, 2' International Robotics Competition, December 18-20, Yasmine Hammamet, Tunisia.
15. **Organizing committee member**, "Gabes Robotic event 2011", 2, 3 and 4 November 2011, FSG, Gabes., Tunisia.
16. **Organizing committee member**, "Atelier sur les énergies renouvelables", 1 and 2 December 2010, FSG, Gabes., Tunisia.
17. **Organizing committee member**, "La Journée de Robotique de Gabes", 06 and 07 December 2009, FSG, Gabes., Tunisia.
18. **Organizing committee member**, "Deuxième journée de Synergie Université-entreprise", 20 April 2008, Jerba, Tunisia.
19. **Organizing committee member**, "Première journée de Synergie Université-entreprise", 19 Mai 2007, Matmata, Gabes, Tunisia.