

Mahdi JEMMALI

Associate professor, computer science
PhD, Computer science
Engineer R&D



Contact information

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📍 Department of Computer Science, College of Computing and Informatics, Sharjah University, Sharjah, United Arab Emirates

▼ Research Gate
Google Scholar

Skills

- Programming language : C/C++, JAVA, .NET (C#, VB, ASP) , Cobol, Python, ADA
- Database: MySQL, Mongo DB, Oracle
- Optimisation : Cplex
- Web : PHP, HTML5, CSS3, JavaScript, ASP.NET, Symfony, Angular, Springboot
- Modeling language: UML, EXPRESS, OMT, SADT, Merise
- Office software: Latex, PowerPoint, Libre Office, Microsoft Office
- Certifications: ITE, CCNA
- Operating system: Administration Windows server, Linux, Unix
- Statistic: SAS, R, Wolfram Mathematica
- Other: Matlab, Prolog, Microsoft 365, PowerShell, OneDrive, Teams, Sharepoint, Yammer, Exchange/Outlook

Hobbies and interests

- Sports: Swimming, Hiking, Volleyball
- Associative activity :
- Founding President of the UJA association (Union of young workers): 2011-2013
- Member of the international Rotaract club (2010)
- Others: Music, Travel, Photography, Reading, Driving license B

Languages

- **Arabic: Reading, Writing, Speaking**
- **English: Reading, Writing, Speaking**
- **French: Reading, Writing, Speaking**

Profil

- Intervene in all of the teaching activities of a team
- Participate in courses, tutorials, and practical work
- Develop research activities on one of the following themes: optimization, scheduling algorithm, operational research, heuristics, networks, smart-city, and big data
- make a career and lead to higher in a well-reputed organization by utilizing my capabilities & experience
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Information

Marital Status: Married

Nationality: Tunisian

Birthday date: September 15, 1978

Education

PhD. in computer science
2006 - 2011

Tunisia Management high school (ISG) in cooperation with Lorraine University, France.

Research Unit: "Operational Research for Industry" (ROI), Polytechnic School of Tunisia (EPT), Marsa Tunis.

Thesis Title : "Parallel Processor Scheduling Algorithms"

Master's degree in Mathematical Engineering
2004-2006

Polytechnic School of Tunisia (EPT), Marsa Tunis.

Master title: "Theory and experimental study of the scheduling problem in parallel machines"

Engineer in Computer Science and Information Analysis
2000 - 2003

National computer science school (ENSI), Tunis

- Graduation project in the company airline TUNISAIR
- The best graduation project of the section 2003
- The project entitled: Designing and creating a dynamic management dashboard
- Designing and creating an application (Visual Basic)
- A statistical analysis of the results was made based on the principal component analysis and the study of performance indicators

Preparatory Institute for Engineering Studies of Monastir
1998-2000

Preparatory cycle for engineering studies, Math and physics section

Baccalaureate in Mathematics
1998

Fatouma Bourguiba Technical High School, Monastir

Training and internships

- 2015-2016
 - Training in IT Essentials, Cisco networking academy
 - Training in CCNA
- 26/01/ 2013
 - Training on the legal, tax, accounting, financial and communication aspects of associations. Tunisian Association of Marketing Professionals
- 2009-2010
 - Pedagogical training organized by the University of Monastir on: Preparation of the exam subject, Correction and evaluation of an exam, Preparation and realization of practical work, Preparation and realization of tutorials, Preparation and realization of a course, Evaluation of experience in teaching, The psychology of young adults, The use of English in research and teaching, pedagogical communication, Practical work: use of computers and multimedia means in teaching and research, Practical work: the realization, the realization and the evaluation
- Janvier 2008
 - Training workshop on final energy consumption surveys organized by ADETEF (Association for the Development of Exchanges in Economic and Financial Technology) within the framework of MEDSTAT II (Euro-Mediterranean Statistical Cooperation) program of the Statistical Office of European Communities (EUROMED). "Survey on energy consumption by households conducted by the Tunisian Electricity and Gas Company (STEG), Austria, Vienna
- Avril 2007
 - Training on business statistics, organized by MEDSTAT2 at the National Institute of Statistics, Tunisia, Tunis
- Juin 2006
 - Training on chronological analysis of statistical data - SPSS organized by the private firm for assistance and training (CAF), Tunisia, Tunis
- Mai 2006
 - Participation in the international conference "Employment Week" which is an exchange forum for the dissemination of information and ideas around employment problems and its global impact, Belgium, Brussels
- 30/01-3/02, 2006
 - Participation in the seminar "Advanced knowledge on the EU: Competition policy" within the framework of the regional program of training and advice in public administration for the Mediterranean partners (EuroMed Formation des Administrations Publiques) organized by the European Institute of Public Administration - European Regions Center (EIPA-CER), Italy, Rome
- 30/01-3/02, 2006
 - English training organized by the RAMSES services training office, Tunis, Tunisia
- Novembre 2005
 - Training on setting up a database using ACCESS RAMSES services training office, Tunis, Tunisia
- septembre 2005
 - Training on "analysis of the contribution of foreign trade" organized by the Arab Institute of Planning and the Institute of Quantitative Studies, Tunis, Tunisia
 - Training on "Support for competitiveness" organized by the Arab Institute for Planning and the Institute for Quantitative Studies, Tunis, Tunisia
 - Training on "Project Competitiveness" organized by the Arab Institute of Planning and the Institute of Quantitative Studies, Tunis, Tunisia
- Novembre 2004
 - Formation anglais au bureau de formation RAMSES services, Tunis, Tunisie
- Septembre 2003
 - Internship at the national institute of statistics (INS) within the department of economic statistics and national accounts, Tunisia
- Septembre 2002
 - Internship at the computer center of Amen Bank at the headquarters, Title of project: "Business intelligence platform for Credit Scoring"

- Juillet/Aout 2002 • Internship at the ENSI engineering school, Realization of a sorting application with visualization: manipulation of interruptions. The adopted language is Turbo c++

Work Experience

- 2020-2023 • **Associate professor** and researcher in computer science, computer science, and information system department, college of Science, Majmaah University, Riyadh, Saudi Arabia. Conduct funded industrial research projects: Railway, Drones, Budget distribution, Aircraft engine management, Smart parking, Health care management system, Data emergency aware scheduling system
- 2014-2020 • **Assistant professor** and researcher in computer science, computer science, and information system department, college of Science, Majmaah University, Riyadh, Saudi Arabia. Conduct funded industrial research projects: Railway, Drones, Budget distribution, Aircraft engine management, Smart parking, Health care management system.
- 2009-2014 • Assistant professor in computer science at the Higher Institute of Computer Science and Mathematics of Monastir, University of Monastir, Tunisia
- 2013-2014 • Temporary teacher-researcher, Ecole Polytechnique (EPI-Polytechnique), Private engineering school, Tunisia
- 2011-2014 • Temporary teacher-researcher, Institute of Advanced Studies of Sousse, private institute, Tunisia
- 2012-2013 • Temporary teacher-researcher, Private engineering school in Tunisia, Polytech Intl University, Tunisia
- 2011-2012 • Temporary teacher-researcher and head of a department, private university of Sousse, private engineering school, Tunisia
- Participation in the preparation of the study plan for the private university of Sousse.
 - Head of a development project and integration of modules within a free ERP "Open Bravo" for the private university of Sousse, Tunisia
- 2008-2009 • Assistant professor in management informatics at the Faculty of Economics and Management of Mahdia, Tunisia
- 2009 • IT consultant for applications, oil research and exploitation company in Tunisia (SEREPT) in Sfax, Tunisia
- 2008 • Computer applications engineer, Microsoft and IT application manager, oil exploration and exploitation company in Tunisia (SEREPT) within the IT department in Sfax, responsible for assistance, monitoring and administration of ERP software
- 2005-2008 • Head of Department, IT Manager, Ministry of Industry, Energy and Small and Medium Enterprises
- 2004-2005 • Computer Engineer, IT Manager, Ministry of Industry, Energy and Small and Medium Enterprises

Courses taught

- Artificial intelligence
- computer system
- Logical system
- Web programming: PHP language
- Operating Systems
- Linux
- Graph theory
- Operational research
- C Programming; Visual Basic; C++; Java
- Algorithms and data structures
- Numerical algorithms
- Cloud computing
- Complexity
- Database
- Analysis and design algorithm

Supervision

- 2016–2019 • Thesis supervision:
Period: 2016–2019
Thread: Advanced algorithms for F2|Rj Block|F(Cj)
Candidate: Ines Agrebi
Thesis director: Prof. Talel Ladhari
Ph.D. in management informatics
The University of Tunis, higher institute of management
Result: Defended thesis and publication of two papers: [J020] and [J021]
- 2016–2019 • Graduate project supervision in fundamental license in computer science
Homestay
Car Parking Android App
Central blood system
Online course report
Development of the system of reservations in traffic
Smart App for Natural Language Processing
Voice control of computer mouse for arm-disabled people
- 2010–2014 • Graduate project in fundamental license in computer science
"Accounting management web application", GSI Monastir
"Management tool for optical library refractometry measurements", Tunisie Telecom Moknine
"Design and development of point-of-sale software", Info Soft Sfax
"Design and development of a mobile application under ANDROID for the survey"
NITS Monastir
"Management of data transmission links", Tunisie Telecom Monastir.
"ANDROID subsystem mobile application for the geolocation of a telephone number"
Tunisia Telecom Monastir
"IT infrastructure"
"Development of an HR component for the free ERP OpenBravo"
- 2007–2010 • Applied PFE coaching in e-commerce and IT management
"Restaurant Management"
"Setting up an Android system"
"Spinning production management within the SITEX company"
"Production control and yield calculation in the finishing workshop within the SITEX"
"Design and creation of online stores"
"Implementation of a dynamic website within the company GLI (Software Management Computer science)"
"Reconstruction of a website for CMF (Financial Market Council)"
"Monitoring and electronic management of business processes within the company SEREPT"
- 2012–2013 • Participation in research groups ending with the publication of papers

Research activities

- 2019–2023 • Participation in research groups ending with the publication of papers
- 2016–2023 • Cooperation of colleagues to develop research
- 2018–2022 • Participation in international conferences
 - Research projects funded by Majmaah University end with publications in impacted international journals (2018–2023)
- 2014–2023 • Member of the MARS Computer Science Research Laboratory, University of Sousse, Tunisia
- 2013–2014 • Scientific collaboration with other laboratories: LCOMS Laboratory of Design, Optimization and Modeling of Systems, University of Lorraine, Metz, , France, PR. Imed Kacem

- 2011-2014
 - Jury member for a master's defense in software engineering:
 - "Development and integration of a module in an ERP solution"
 - "Development and integration of a CAPM module in an ERP solution"
 - "Development of an image processing toolbox IT department"
 - Reviewer for a master's degree in software engineering:
 - "Development of an Android application"
- 2004-2011
 - Member of the research laboratory (operational research for industry: ROI) within the polytechnic school of Tunisia, director Pr. Mohamed Haouari

Reviewer Journals

- European J. of Industrial Engineering (EJIE) **IF 1.217 Q4**
- European Journal of Training and Development
- Complex and intelligent system **IF 6.700 Q1**
- Computer Systems Science and Engineering **IF 4.397 Q1**
- Computers & Industrial Engineering **IF 7.180 Q1**
- Rairo-operational research **IF 2.526 Q3**
- International Journal of Computational Intelligence and Applications
- Journal of Supercomputing **IF 2.557 Q2**
- ADCAIJ: Advances in Distributed Computing and Artificial Intelligence Journal
- Journal of Ambient Intelligence and Humanized Computing **IF 3.662 Q2**
- Human-centric Computing and Information Sciences
- IEEE Access **IF 3.476 Q2**

Research projects

- 2022
 - Co-investigator, Research project, "The railway monitoring system", Project number: R-2022-188, Majmaah University, Saudi Arabia, Result: publication of [J034]
 - Principal Investigator, Research Project, "Data-Emergency-Aware Scheduling in Computer Networks", Project number: R-2022-42, Majmaah University, Saudi Arabia, Result: publication of [J035]
 - Principal Investigator, Research Project, "An Efficient Optimization of Battery-drone-based Transportation Systems for Monitoring Solar Power Plant", Project number: R-2022-199, University of Majmaah, Saudi Arabia, Result: publication of [J036]
 - Co-investigator, Research group, "Smart-health care scheduling algorithm", Project number: IFP-A 2022-2-2-12, University of Hafr Al-Batin, Saudi Arabia, Result: publication of [J027], [J031], and [J032]
 - Co-investigator, Research Group, "Intelligent Scheduling Algorithms for Firefighting and Detection Drone-based System", Project number: UJ-22-KAP2-1, University of Jeddah, Saudi Arabia, Result: publication of
- 2021
 - Co-investigator, "Scheduling Problem with mold constraints problem", Project number: UJ-21-DR-154, University of Jeddah, Saudi Arabia, Result: Publication: de [J029]
 - Co-investigator, "Architecture and approximate solution for future networks", Project number: UJ-21-DR-62, University of Jeddah, Saudi Arabia, Result: Publication: de []
 - Co-investigator, Research project, "Two-stage hybrid flowshop scheduling problem with independent setup times", Project number: R-2021-283, Majmaah University, Saudi Arabia, Result: publication of [J030]
 - Co-Investigator, Research Project, "Flowshop Scheduling Under Release Dates and Blocking Constraints", Project number: R-2021-289, Majmaah University, Saudi Arabia, Result: publication of [J026]
 - Co-investigator, Research project, "Maximizing the minimum completion time problem", Project number: R-2021-293, Majmaah University, Saudi Arabia, Result: publication of [J025]

- Principal Investigator, Research Project, "Projects distribution algorithms for regional development", Project number: R-2021-145, Majmaah University, Saudi Arabia, Result: publication of [J023]
 - Principal-investigator, Research project, "Complex system for a smart parking", Project number: R-2021-212, Majmaah University, Saudi Arabia, Result: publication of [J028]
- 2020
- Co-investigator, Research group, "Smart-health care algorithms", Project number: G-114-2020, University of Hafr Al-Batin, Saudi Arabia, Result: publication of [J027], [J031], and [J032]
- 2019
- Principal-investigator, "Scheduling problems and applications", Project number: RGP-2019-13, Majmaah University, Saudi Arabia, Result: publication of [J021], [J020], [J019], [J018], [J017], and [J013]
 - Co-investigator, "Comparative Analysis of Different Machine Learning Models for Estimating the Population Growth Rate in Data Limited Area.", Project number: R-1441-45, University of Majmaah, Saudi Arabia, Result: publication of [J011]
 - Principal Investigator, "Budgets Balancing Algorithms for the Projects Assignment", Project number: R-1441-30, University of Majmaah, Saudi Arabia, Result: publication of [J008]
 - Co-investigator, "A Comment-Based algorithm for Post-Ranking reconciliation on Facebook", Project number: 1440-68, University of Majmaah, Saudi Arabia, Result: publication of [J006]
- 2018
- Principal Investigator, "Hybrid Flow Shop with Setup Times Scheduling Problem", Project Number: 1439-19, University of Majmaah, Saudi Arabia, Result: publication of [J033]
 - Co-investigator, "Photoplethysmogram (PPG) Waveform Analysis", Project number: 1439-4, University of Majmaah, Saudi Arabia, Result: Publication of [J016]
 - Co-Investigator, "Lower Bounds for Gas Turbines Aircraft Engines", Project Number: 1440/116, University of Majmaah, Saudi Arabia, Result: Publication of [J009]
 - Co-investigator, "Multi-criteria Intelligent Algorithm for Supply Chain Management", Project number: 1440-88, University of Majmaah, Saudi Arabia, Result: Publication of [J007]
 - Principal Investigator, "Approximate Solutions for the Projects Revenues Assignment Problem", Project Number: 1440-152, University of Majmaah, Saudi Arabia, Result: Publication of [J010]
- 2017
- Principal-investigator, "Parallel machine Problem with learning effect constraints", Project number: 38/73, University of Majmaah, Saudi Arabia, Result: Publication: de [J024]
 - Co-investigator, "Window Pass for a Wireless Network with User Preferences.", Project Number: 38/90, Majmaah University, Saudi Arabia, Result: Publication: de [J022]
 - Co-investigator, "Algorithms for Investment Project Distribution on Regions", Project number: 38/74, Majmaah University, Saudi Arabia, Result: Publication: de [J015]
 - Co-investigator, "Solutions and tight lower bounds for the parallel machines scheduling problem with learning effect", King Saud University, Saudi Arabia, Result: Publication: de [J012]

Educational publications

- 2013-2014
- "Operational research", course material and booklet of practical work for 2nd year LF Math and LF communication students at the Higher Institute of Computer Science and Mathematics of Monastir, Ref13141
- 2012-2013
- "Numerical algorithms", course material and booklet of tutorials for students of 3rd computer engineering at the polytechnic school of Sousse, Ref121301
 - "Numerical algorithms and applications", course material and booklet of tutorials for students of 3rd computer engineering at the polytechnic school of Sousse, Ref121302

- 2011-2012
 - "Algorithms and data structures", course material and tutorial booklet for 1st year LF informatics students at the Higher Institute of Informatics and Mathematics of Monastir, Ref111201
 - "C programming", course material and booklet of practical work for 1st-year computer engineering students at the private university of Sousse, Ref101102
 - "Operational research", course material and booklet of practical work for 1st-year computer engineering students at the private university of Sousse, Ref101103
- 2010-2011
 - "Mathematical logic", course material and booklet of tutorials for 2nd year LF informatics students at the Higher Institute of Informatics and Mathematics of Monastir, Ref101101
 - "Theory of graphs", course material and booklet of tutorials for 2nd year LF informatics students at the Higher Institute of Informatics and Mathematics of Monastir, Ref101102
- 2009-2010
 - "Operating Systems Workshop", course material and booklet of practical work for 1st year LF informatics students at the Higher Institute of Informatics and Mathematics of Monastir, Ref091001
 - "Linux", course material and booklet of practical work for 2nd-year mathematics students at the Higher Institute of Computer Science and Mathematics of Monastir, Ref091002
- 2008-2009
 - "Operating Systems II", course material and booklet of practical work for 2nd-year e-commerce students at the Faculty of Economics and Management of Mahdia, Ref080901
 - "Computer system", course material and booklet of tutorials for 1st-year e-commerce students at the Faculty of Economics and Management of Mahdia, Ref080902
 - "Logical system", course material and booklet of tutorials for 1st-year electronic commerce students at the Faculty of Economics and Management of Mahdia, Ref080903
- 2007-2008
 - "Artificial intelligence", Fascicle of tutorials for 4th-year students in computer science applied to management at the Higher School of Economics and Commercial Sciences of Tunis, Ref070801
 - "Web programming: PHP language", Handbook of practical work for 3rd-year computer science students applied to the management of the higher school of economic and commercial sciences of Tunis, Ref070802
- 2006-2007
 - "Création des sites web: Langage HTML", Fascicule des travaux pratiques pour les étudiants de 3ème année informatique appliqué à la gestion de l'école supérieure des sciences économiques et commerciales de Tunis, Ref060702
 - "Photoshop pour le web", Fascicule des travaux pratiques pour les étudiants de 3ème année informatique appliqué à la gestion de l'école supérieure des sciences économiques et commerciales de Tunis, Ref060701

Scientific publications

Journals

- 2023
 - [J038] Akram Sarhan and **Mahdi Jemmali**. "Novel intelligent architecture and approximate solution for future networks." PLoS ONE 18(3): e0278183. <https://doi.org/10.1371/journal.pone.0278183>. **IF 3.24, Q2**

- [J037] **Mahdi Jemmali** and Abir Ben Hmida. "Quick dispatching-rules-based solution for the two parallel machines problem under mold constraints." *Flexible Services and Manufacturing Journal* (2023): 1-26. <https://doi.org/10.1007/s10696-023-09483-0>. **IF 2.209, Q3**
- [J036] **Mahdi Jemmali**, Ali Kashif Bashir, Wadii Boulila, Loai Kayed B. Melhim, Rutvij H. Jhaveri, and Jawad Ahmad. "An Efficient Optimization of Battery-Drone-Based Transportation Systems for Monitoring Solar Power Plant." *IEEE Transactions on Intelligent Transportation Systems*. <https://doi.org/10.1109/TITS.2022.3219568>. **IF 9.551, Q1**

- 2022
- [J035] **Mahdi Jemmali**, Mohsen Denden, Wadii Boulila, Rutvij H. Jhaveri, Gautam Srivastava, and Thippa Reddy Gadekallu. "A Novel Model Based on Window-Pass Preferences for Data-Emergency-Aware Scheduling in Computer Networks." *IEEE Transactions on Industrial Informatics* (2022). <https://doi.org/10.1109/TII.2022.3149896>, **IF 11.648, Q1**
 - [J034] **Mahdi Jemmali**, Loai Kayed B. Melhim, and Fayez Al Fayez. "Real time read-frequency optimization for railway monitoring system." *RAIRO-Operations Research* 56, no. 4 (2022): 2721-2749, <https://doi.org/10.1051/ro/2022094>, **IF 2.526, Q3**
 - [J033] **Mahdi Jemmali** and Lotfi Hidri. "Hybrid Flow Shop with Setup Times Scheduling Problem". *Computer Systems Science & Engineering* 44, no 1. (2022). <https://doi.org/10.32604/csse.2023.022716>, **IF 4.397 Q1**
 - [J032] Md. Moddassir Alam, Loai Kayed B. Melhim, Mohammad Tauheed Ahmad, **Mahdi Jemmali**, "Public Attitude Towards COVID-19 Vaccination: Validation of COVID-Vaccination Attitude Scale (C-VAS)" *Journal of Multidisciplinary Healthcare*, 15:941-954. (2022). <https://doi.org/10.2147/JMDH.S353594>, **IF 2.919, Q3**
 - [J031] **Mahdi Jemmali**, Loai Kayed B. Melhim, Mafawez T. Alharbi, Abdullah Bajahzar, and Mohamed Nazih Omri. "Smart-parking management algorithms in smart city." *Scientific Reports* 12, no. 1 (2022): 1-15. <https://doi.org/10.1038/s41598-022-10076-4>, **IF 4.996, Q2**
 - [J030] **Mahdi Jemmali**, Lotfi Hidri , and Abdalluh Alourani. Two-stage hybrid flowshop scheduling problem with independent setup times." *International Journal of Simulation Modelling (IJSIMM)* 21, no. 1 (2022). <https://doi.org/10.2507/IJSIMM21-1-577>, **IF 2.775 Q3**
 - [J029] Abir Ben Hmida, **Mahdi Jemmali**, Near-Optimal Solutions for Mold Constraints on Two Parallel Machines, *Studies in Informatics and Control*, vol. 31(1), pp. 71-78, (2022). <https://doi.org/10.24846/v31i1y202207>, **IF 1.826, Q3**
 - [J028] **Jemmali, Mahdi**. "Intelligent algorithms and complex system for a smart parking for vaccine delivery center of COVID-19." *Complex & Intelligent Systems* : 1-13 (2022). <https://doi.org/10.1007/s40747-021-00524-5>. **IF 6.700 Q1**
 - [J027] **Mahdi Jemmali**, Loai Kayed B. Melhim, Abdullah Alourani, and Alam Md Moddassir. "Equity distribution of quality evaluation reports to doctors in health care organizations." *PeerJ Computer Science* 8 (2022). <https://doi.org/10.7717/peerj-cs.819>, **IF 2.411 Q2**
 - [J026] Hajer Amdouni, **Mahdi Jemmali**, Mehdi Mrad, and Talel Ladhari. An exact algorithm minimizing the makesapn for the two-machine flowshop scheduling under release dates and blocking constraints." *International Journal of Industrial Engineering: Theory, Applications, and Practice* 28, no. 6. (2022). <https://doi.org/10.23055/ijietap.2021.28.6.6839>, **IF 0.633 Q4**
- 2021
- [J025] **Jemmali, Mahdi**, and Abdullah Alourani. "Mathematical model bounds for maximizing the minimum completion time problem." *Journal of Applied Mathematics and Computational Mechanics* 20, no. 4 (2021): 43-50. <https://doi.org/10.17512/jamcm.2021.4.04>
 - [024] **Jemmali, Mahdi**, and Lotfi Hidri. "Bounding schemes for the parallel machine scheduling problem with Dejong's learning effect." *Journal of Parallel and Distributed Computing* (2021). <https://doi.org/10.1016/j.jpdc.2021.05.003>, **IF 4.542 Q1**
 - [J023] **Jemmali, Mahdi**. "Projects distribution algorithms for regional development." *Advances in Distributed Computing and Artificial Intelligence Journal* 10, no. 3 (2021): 293-305. <https://doi.org/10.14201/ADCAIJ2021103293305>.
 - [J022] Hani Alquhayz and **Mahdi Jemmali**. "Fixed Urgent Window Pass for a Wireless Network with User Preferences." *Wireless Personal Communications* (2021): 1-27. <https://doi.org/10.1007/s11277-021-08524-x>. **IF 2.017 Q3**

- [J021] Ines Agrebi, **Mahdi Jemmali**, Hani Alquhayz, and Talel Ladhari. "Metaheuristic algorithms for the two-machine flowshop scheduling problem with release dates and blocking constraint." *Journal of the Chinese Institute of Engineers* (2021): 1-10. <https://doi.org/10.1080/02533839.2021.1933600>, **IF 1.107 Q4**
 - [J020] **Mahdi Jemmali**, Ines Agrebi, Hani Alquhayz, and Talel Ladhari. "Optimal algorithm for a two-machine flowshop scheduling problem with release dates and blocking constraints." *Journal of the Chinese Institute of Engineers* (2021): 1-8. <https://doi.org/10.1080/02533839.2021.1919560>, **IF 1.107 Q4**
 - [J019] **Jemmali, Mahdi**. "An optimal solution for the budgets assignment problem." *RAIRO-Operations Research*. 55 (2021): 873. <https://doi.org/10.1051/ro/2021043>, **IF 2.526 Q3**
 - [J018] Hani Alquhayz and **Mahdi Jemmali**. "Max-Min Processors Scheduling." *Information Technology and Control* 50, no. 1 (2021): 5-12. <https://doi.org/10.5755/joi.itc.50.1.25531>. **IF 0.813 Q4**
- 2020
- [J017] Melhim, Loai Kayed B., **Mahdi Jemmali**, Basil AsSadhan, and Hani Alquhayz. "Network traffic reduction and representation." *International Journal of Sensor Networks* 33, no. 4 (2020): 239-249. <https://doi.org/10.1504/IJSNET.2020.109193>
 - [J016] Qawqzeh, Yousef K., Abdullah S. Bajahzar, **Mahdi Jemmali**, Mohammad Mahmood Otoom, and Adel Thaljaoui. "Classification of Diabetes Using Photoplethysmogram (PPG) Waveform Analysis: Logistic Regression Modeling." *BioMed Research International* (2020). <https://doi.org/10.1155/2020/3764653>, **IF 3.246 Q3**
 - [J015] Alharbi, Mafawez and **Mahdi Jemmali**. "Algorithms for Investment Project Distribution on Regions." *Computational Intelligence and Neuroscience* 2020 (2020). <https://doi.org/10.1155/2020/3607547>, **IF 3.120 Q2**
 - [J014] **Mahdi Jemmali** and Bassem Salhi. "Corporate Governance Impact on Banking Risk" (2020), *Frontiers of Engineering Management*, <https://doi.org/10.1007/s42524-019-0034-3>
 - [J013] Hani Alquhayz, **Mahdi Jemmali**, and Mohammad Mahmood Otoom. "Dispatching-rule variants algorithms for used spaces of storage supports." *Discrete Dynamics in Nature and Society* 2020 (2020). <https://doi.org/10.1155/2020/1072485>, **IF 1.457 Q3**
 - [J012] Hidri, Lotfi, and **Mahdi Jemmali**. "Near-optimal solutions and tight lower bounds for the parallel machines scheduling problem with learning effect." *RAIRO-Operations Research* 54, no. 2 (2020): 507-527. <https://doi.org/10.1051/ro/2020009>, **IF 2.526 Q3**
- 2019
- [J011] Mohammad Mahmood Otoom, **Mahdi Jemmali**, Yousef Qawqzeh, Khalid Nazim SA, and Fayez Al Fayez. "Comparative Analysis of Different Machine Learning Models for Estimating the Population Growth Rate in Data-Limited Area." *International Journal of Computer Science and Network Security IJCSNS* 19, no. 12 (2019): 96
 - [J010] **Mahdi Jemmali**, Approximate Solutions for the Projects Revenues Assignment Problem, *Communications in Mathematics and Applications* 10, no. 3 (2019). <https://doi.org/10.26713/cma.v10i3.1238>
 - [J009] **Mahdi Jemmali**, Loai Kayed Bani Melhim, Sayer Obaid B. Alharbi, and Abdullah Saeed Bajahzar, Lower Bounds for Gas Turbines Aircraft Engines, *Communications in Mathematics and Applications* 10, no. 3, <https://doi.org/10.26713/cma.v10i3.1218>
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 - [J007] **Mahdi Jemmali**, Loai Kayed B. Melhim, Mafawez Alharbi, Multi-criteria Intelligent Algorithm for Supply Chain Management, *International Journal of Advanced Computer Science and Applications* 10, no 4. <https://doi.org/10.14569/IJACSA.2019.0100442>
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