



Dr. Gais Alhadi Babikir Alhadi

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Biography

Gais Alhadi has completed his PhD from University of Lorraine in Metz, France. He earned a Master's degree and a Bachelor's degree in Computer Science from the University of Gezira, Sudan. Currently, Gais is an Assistant Professor at the University of Gezira (Sudan), Computer Science Department and a member of the University Council. He is also the Director of Computer and Information Technology Center - University of Gezira (Sudan) after he was the head of the Computer Science Department and director of the university's website. Gais has scientific activity in Operational Research. More precisely, his contributions are related to the design of exact and approximate algorithms with guaranteed performance for the NP-hard combinatorial problems. Such problems are mainly related to the scheduling theory. Gais has skills in using a variety of computer programming languages and scripts with particular expertise in database design and management, software development, and website design.

Skill Highlights

Algorithm Analysis; Algorithm Design; Algorithm Development; Scheduling Algorithms; Scheduling Problems; Heuristics; Metaheuristic; Optimization; Combinatorial Optimization; Multiobjective Optimization; Optimization Theory; Optimization Modeling; Linear Programming; Integer Programming; Dynamic Programming; Approximation Algorithms; Artificial Intelligence; Machine Learning; Deep Learning; Convolutional Neural Networks;

Programming languages: C++, Java, VB, Oracle Developer 6i, HTML5, PHP, JavaScript, CSS, ASP.NET; Database Administration; Software Developer; Web Developer

Experience

- Director of Computer and Information Technology Center - University of Gezira (Sudan), 03/2020 to Now
- University Senate Member (University of Gezira, Sudan), 03/2020 to Now
- Head of the Computer Science Department - University of Gezira (Sudan), 02/2020 to 03/2020
- Software Developer and Web Developer, 2011 to Now
- University Website Manager, 06/2015 to 04/2016.

Education

- **Ph.D.** in Computer Science (2019)
University of Lorraine, Metz, France
Thesis topic: *Polynomial Approximation Algorithms for Parallel Machine Problems in a Multi-objective or Constrained Context*
- **M.Sc.** in Computer Science (2014)
University of Gezira, Wad Madani, Sudan
Dissertation topic: *A Framework for Establishing a Semantic Web in a University Web Site - A Case Study University of Gezira*
- **B.Sc.** (Honours) in Mathematical / Computer (2011)
University of Gezira, Wad Madani, Sudan
Graduation project: *Online Examination*

Teaching

My teaching portfolio concentrates on the past eight years during which I taught 14 subjects at graduate and undergraduate levels

Subjects Taught	Level
Theory of Computation	Graduate
Information Theory and Data Encryption	Graduate
Systems Analysis and Design	Graduate
Fundamentals of Object Oriented Programming	Undergraduate
Design and Development of Software	Undergraduate
Financial and Marketing Information Systems	Undergraduate
Fundamental of Database Systems	Undergraduate
Databases Management Systems	Undergraduate
Distributed Database System	Undergraduate
Design Tools of Internet Sites	Undergraduate
Security of Information and Systems	Undergraduate
Visual Programming	Undergraduate
Computer Applications in the facility for business	Undergraduate
Fundamentals of Computer	Undergraduate

Published Books

- Introduction to Computer Applications
Publisher: Noor Publishing, 2017
ISBN: 978-3-330-85209-9
- A Framework for Establishing a Semantic Web in a University Web Site
Publisher: Noor Publishing, 2017
ISBN: 978-3-330-84959-4

Publications

- **Gais ALHADI**, Murtada Khalfallah Elbashir2, Mohammed A. Saleh:
A Framework for Establishing a Semantic Web in a University Web Site: A Case Study University of Gezira. Jordanian Journal of Computers and Information Technology (JJCIT), 2021.
- **Gais ALHADI**, Imed KACEM, Pierre LAROCHE, Izzeldin M. OSMAN:
Approximation Algorithms for Minimizing the Maximum Lateness and Makespan on Parallel Machines. Annals of Operations Research (**SPRINGER**), 2019, DOI: 10.1007/s10479-019-03250-x.
- **Gais ALHADI**, Imed KACEM, Pierre LAROCHE, Izzeldin M. OSMAN:
A PTAS for Minimizing the Maximum Lateness and Makespan on Two-Parallel Machine. **AFROS 2018**: The 2018 International Conference of the African Federation of Operational Research Societies, July 2-4, 2018.
- **Gais ALHADI**, Imed KACEM, Pierre LAROCHE, Izzeldin M. OSMAN:
Maximum Lateness Minimization on Two-Parallel Machine with a Non availability Interval. **CoDIT 2018**: International Conference on Control, Decision and Information Technologies, April 10-13, 2018, pp. 757-762, DOI: 10.1109/CoDIT.2018.8394831.
- **Gais ALHADI**, Imed KACEM, Pierre LAROCHE, Izzeldin M. OSMAN:
An approximate Pareto set for minimizing the maximum lateness and makespan on parallel machines. **MOPGP 2017**: International Conference on Multiple Objective Programming and Goal Programming, October 30-31, 2017.
- Murtada Khalafallah Bashir, Abdulrhman Mohammed Elhassan Biraima,
Gais Alhadi Babikir:
An approach for Schools Management System on The Cloud Computing.
Gezira Journal of Engineering and Applied Sciences, vol (10) num-2-2015.
- **Besides:** Three scientific papers have been sent to scientific journals (under review)

Training

- How to Write and Publish a Scientific Paper, University of Gezira (Sudan), 2020.
- Ethique et intégrité scientifique, University of Lorraine (France), 2019.
- Formation à la culture de prévention, University of Lorraine (France), 2018.
- Formation à la communication orale et corporelle en milieu professionnel, University of Lorraine (France), 2018.
- Rédiger et publier un Compte-rendu d'ouvrage, University of Lorraine (France), 2018.
- Publier sa recherche, University of Lorraine (France), 2018.
- Bureautique/Rédaction de documents Longs, University of Lorraine (France), 2018.
- Atelier sur l'élaboration d'un CV scientifique et la rédaction d'une proposition de communication, University of Lorraine (France), 2017.
- Méthodes semidéfinies en optimisation combinatoire, University of Lorraine (France), 2017.
- Modelizations of crystal behavior and textures, University of Lorraine (France), 2017.
- Interculturalité 'enjeux et perspectives' (VOLET I), University of Lorraine (France), 2017.
- Articulations du texte long: annonces, transitions, synthèses, University of Lorraine (France), 2017.
- La disputatio: discuter, nuancer, argumenter, University of Lorraine (France), 2017.
- Mettre en forme sa thèse, University of Lorraine (France), 2017.
- Présenter et insérer une citation, University of Lorraine (France), 2017.
- Présentations de Conférences (session printemps), University of Lorraine (France), 2016.
- Le poster, University of Lorraine (France), 2016.
- Big Data Mining and Visualization, University of Lorraine (France), 2016.
- Research Management, University Education Development Center, University of Gezira (Sudan), 2015.
- Development of leadership Skills, University Education Development Center, University of Gezira (Sudan), 2015.
- Training of Trainers (TOT), University Education Development Center, University of Gezira (Sudan), 2015.
- What You Need to Know About Your Research: From A to Z, University Education Development Center, University of Gezira (Sudan), 2014.
- Oracle Forms 6i, Faculty of Mathematical and Computer Sciences, University of Gezira (Sudan), 2013.
- DBA Using Oracle Database 10g, Faculty of Mathematical and Computer Sciences, University of Gezira (Sudan), 2011.
- Web design and programming, Faculty of Mathematical and Computer Sciences, University of Gezira (Sudan), 2011.

Technical Reviews for International Journals

- Advances in Operations Research | Hindawi
- Computers & Industrial Engineering | Elsevier
- Computers & Operations Research | Elsevier
- Annals of Operations Research | Springer
- American Journal of Computer Science and Technology | Science Publishing Group
- Gezira Journal of Engineering and Applied Sciences | University of Gezira

Systems and websites that have been developed

- **Website:** Faculty of Mathematical and Computer Sciences, University of Gezira, from 2012 to 2016 (<http://fmcs.uofg.edu.sd>)
- **Website:** Community College, University of Gezira, from 2012 to 2016 (<http://ccd.uofg.edu.sd/>)
- Services Administrator System, University of Gezira
- Elbalsam Pharmacy System
- Electronic Patient Record System
- Sales System

Awards and Honors

- Academic Excellence Award, University of Gezira, 2010/2011

References

- Prof. Izzeldin Mohamed Osman (izzeldinosman@hotmail.com)
- Prof. Pierre Laroche (Pierre.Laroche@univ-lorraine.fr)
- Dr. Murtada Khalafallah Elbashir Elfaki (murtadabashir@yahoo.com)

The LinkedIn logo, featuring the word "Linked" in black and "in" in white inside a blue square.