Muhammad Sulaman

Ph.D. Scholar in Computer Science sulman0909@gmail.com muhammad.sulaman@uha.fr 68100 Mulhouse, France

Mulhouse, France

Oct 2021 - present

Nanjing, China

Sept. 2014 - March 2017

EDUCATION

University of Haut Alsace

Ph.D in Computer Science at IRIMAS, Ensisa

• Research Direction: Learning Methods, Metaheuristics, Computational Intelligence

Nanjing University of Aeronautics and Astronautics Nanjing, China

Master of Science in Computer Science and Technology; Percentage: 87%

Bahauddin Zakariya University Multan, Pakistan Bachelor of Science in Information Technology; GPA: 3.36/4.00 Sept. 2009 - July. 2013

EXPERIENCE

Cyber-Reality Innovation Center

C++ Software Development Engineer

o Projects:

*Asset Management System

*Multi-Feature LED Bit Detection Algorithm

*Feature Detection and Matching Algorithm for Printed Circuit Board (PCB) Inspection

Country Garden Holdings

Foshan, China

Senior Software Development Engineer

Sept. 2018 - Mar. 2020

May 2020 - August 2021

- o ASP.Net Software Development: Worked on Business process modules of company's Core Sales management system. My responsibilities include researching, designing, developing and implementing new and existing modules.
- Overseas System Operation and Maintenance: Communicate with overseas colleagues and process their technical work orders.
- o Projects:
 - *Online Learning Document Management System (ASP.Net)
 - *Application Version Management System (ASP.Net)
 - *China Commercial Bank Online Mortgage Application Management System (ASP.Net)

College of Computer Science and Technology, NUAA

Nanjing, China

Teaching Assistant

Sept. 2016 - March 2017

o C-Programming Language: Worked as a teaching assistant for a couple of courses which was taught to the international students at NUAA.

College of Computer Science and Technology, NUAA

Sept. 2014 - March 2017

Nanjing, China

Research Assistant

o Computational Intelligence Laboratory: I have been working on a number of multiobjective optimization and operational research projects such as Ready-mixed Concrete Delivery Problem, Travelling Salesman Problem and Software Next Release Problem.

EduSoft System Solutions

Multan, Pakistan

Software Engineer

Sept. 2013 - Sept. 2014

- Transport Management System: Using C# as a development language with "Microsoft SQL Server" as a database development platform, desktop client research and development work.
- School management System: Using ASP.Net as development language with "MVC" framework for Web application development £¬be familiar with HTML/CSS £¬gain some knowledge on javascript.

EduSoft System Solutions

Multan, Pakistan

Intern As a Software Developer

Jul 2013 - Sept. 2013

PUBLICATIONS

- 1. M. Sulaman, M. Golabi, M. Essaid, J. Lepagnot, M. Brévilliers, L. Idoumghar. Surrogate-assisted metaheuristics for the facility location problem with distributed demands on network edges. Computers & Industrial Engineering (2024).
- 2. M. Sulaman, M. Golabi, M. Essaid, M. Brévilliers, J. Lepagnot, L. Idoumghar. Random Forest Assisted Differential Evolution for Multi-server Congested p-median Problem. 35th International Conference on Tools with Artificial Intelligence (ICTAI) Atlanta, USA 2023.
- 3. M. Golabi, M. Essaid, M. Sulaman, L. Idoumghar. Extreme Learning Machine-based Genetic Algorithm for the facility location problem with distributed demands on network edges. IEEE Congress on Evolutionary Computation (CEC), Chicago, USA 2023.
- 4. M. Sulaman, M. Golabi, M. Brévilliers, J. Lepagnot, L. Idoumghar. A comparative study of newly developed metaheuristics for the discrete uncapacitated *p*-median problem. 8th International Conference on Control, Decision and Information Technologies (CoDIT) Istanbul, Turkey 2022.
- 5. M. Sulaman, X. Cai and M. Misir. Simulated Annealing with a Time-slot Heuristic for Ready-mix Concrete Delivery. The 11th International Conference on Simulated Evolution and Learning, Shenzhen, China 2017
- C. Zhu, X. Cai, Z. Fan and M. Sulaman. A two-phase many-objective evolutionary algorithm with penalty based adjustment for reference lines, IEEE Congress on Evolutionary Computation (CEC), Vancouver, BC, 2016, pp. 2161-2168, Vancouver, BC, Canada 2016.
- C. Xia, X. Cai, Z. Fan, M. Sulaman. Reference line guided pareto local search for bi-objective traveling salesman problem. 2017 IEEE International Conference on Computational Science and Engineering (CSE) and IEEE International Conference on Embedded and Ubiquitous Computing (EUC), Guangzhou, China 2017.
- 8. W. Sun, X. Cai, C. Xia, M. Sulaman, Z. Fan and M. Misir. Greedy Based Pareto Local Search for Bi-objective Robust Airport Gate Assignment Problem, The 11th International Conference on Simulated Evolution and Learning, Shenzhen, China 2017.
- 9. H. Sun, X. Cai, M. Sulaman and Z. Fan and. An Evolutionary Many-Objective Optimization Algorithm Based on Coverage and Cache Strategy, International Conference on Industrial Informatics Computing Technology, Intelligent Technology, Industrial Information Integration, 2017.

Interest

Multi-objective Optimization, Evolutionary Algorithms, Computational Intelligence, Meta-heuristics and Machine Learning. Operations Research, Continuous and Combinatorial Optimisation.

INVITED / TALKS

July. 2023: Speaker, International Conference on Control, Decision and Information Technologies (CoDIT)

Nov. 2016: Program host, First International Academic Conference for Graduated 2016, NUAA, Nanjing.

July. 2017: Speaker, The 11th International Conference on Simulated Evolution and Learning, 2017 Shenzhen.

Oct. 2017: Program host, Second International Academic Conference for Graduated 2017, NUAA, Nanjing.

AWARDS & HONOURS

- 1. Qualified for Fully Funded Chinese Government Scholarship for Masters
- 2. Project funding for doctoral research at ENSISA France
- 3. Class leader elected by students

Projects

- Hybrid Heuristic for Solving Ready-mixed Concrete Delivery Problem: A Simulated annealing is combined with a time-slot heuristic (SA-TH) for solving the Concrete Delivery problem. This algorithm is coded by using Java.
- Algorithm for Software Next Release Problem: This Algorithm is designed for solving the Multi-objective Software Next Release Problem using Matlab.
- Evolutionary Algorithm for Solving Multi-objective Algorithm for Solving MTSP: This is algorithm is designed for solving the Multi-objective Travelling Salesman Problem. It is coded by using C++ programming language.

SKILLS

Programming: Python, C/C++

Web Technologies: HTML (CSS), JScript Database Systems: Oracle, Ms/MySQL

Personal

Languages: Urdu (Native), English (C2), French (B1), Chinese (A2)