CURRICULUM VITAE

Rawia Elarabi

Assistant Professor
Department of Computer Science
College of Engineering and Computer Science
Jazan University,
Jazan, Kingdom of Saudi Arabia
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Research Gate PROFILE: (2) Rawia Elarabi (researchgate.net)

PROFILE:

   I have 17 years of teaching experience in the Department of Computer Science, Jazan University in the Kingdom of Saudi Arabia, as well as the College of Engineering, Imam Al-Mahdi University in the Republic of Sudan. Focus mostly on teaching mathematical, Programming languages and Artificial Intelligence in Computer Science. I also have experience in developing games and robotics using Artificial intelligence techniques are part of my interests.

My research focus is for machine learning algorithm / classification neural network and decision tree. An effective system has been applied to discover and classify Internet files and classify benign or worms. And also the use of machine learning Algorithms to predict diseases such as COVID19, Breast cancer, heart disease, etc and are considered promising contributions to the field of health care. I am experienced in cooperating with colleagues to help and guide students in a variety of problems. I also have experience in conducting workshops, Seminars, conferences, orientation programs.

ACADEMIC PROFILE

Degree	Year of Award	Affiliation Institution	Major
M.Sc. (Computer Science) (Full Time - Regular)	2013	University of science &Technology	Computer Science
B.Sc. (Computer Science & statistics) (Full Time -Regular)	2005	University of Khartoum	Mathematical Science& Computer College
Ph.D (Computer Science) (Full Time - Regular)	2022	University of Bakt Alruda	Computer Science

WORKING EXPERINCE

JOB NEME	EMPLOYER NAME	FROM	TO
Assistant professor	Jazan University- Computer Science& Information system	30May2023	Till now
Lecturer	Jazan University- Computer Science& Information system	Dec 2015	May 2023
Teaching Assistant Part time	Elimam Elmahdi University Engineering College	2005	2009
Programmer	Ministry of Architecture Planning	2007	2013
Lecturer Part time	Jazan University – Community College (sabia)	Oct 2013	Sep 2015

TECHNICAL PROFICIENCIES

Languages: Python, C++, C, Java, Prolog , LISP

Databases: Oracle and MYSQL, MS-Access

Operating Systems: Red Hat Linux, UNIX, Windows

Packages: MS Office Suite (Word, Excel, PowerPoint)

Web Development: HTML, PHP
Tools   Weka , matlab**.**

TEACHING INTERESTS

- ❖ Artificial Intelligence
- ❖ Cloud Computing
- ❖ Data mining
- ❖ Programming Python
- ❖ Programming Java
- ❖ Neural network
- ❖ Introduction to Computers
- ❖ Algorithm and Data Structures
- ❖ Database Management Systems
- ❖ Data Structure
- ❖ Management Information systems
- ❖ System analysis and design
- ❖ Object Oriented Programming OOP
- ❖ Computer Mathematics

PROFESSIONAL EXPERIENCE IN (Jazan University)

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- ❖ Working as a Sr. Lecturer in Computer Science department. (2015-Till now)
- ❖ Member of the examination committee (2019-2023)
- ❖ Assistant to the Head of Student Advisory committee (2018-2021)
- ❖ Participation in the second forum for student Advisory (MANAR 2021)
- ❖ Head of the Web Portal committee (2017-2020)
- ❖ Artificial Intelligence comp 241 course in charge (2013- Till now)
- ❖ Artificial Intelligence course Coordinator for Diploma program (2020-2021)
- ❖ Member of AI Research Unit, (2020-Till now)
- ❖ Head of the electronic portal committee (2017-2019)
- ❖ Project supervisor of graduate student (2015-2016 & 2021-2022)
- ❖ Supervisor of field training for medical secretarial students (2013-2015)
- ❖ Hall and Chalet Reservations System (2021-2022)
- ❖ Artificial Intelligence course lecturer for Higher Diploma (2022)
- ❖ Member of Research & Innovation committee (2022- Till now)
- ❖ Department Council member (2022- Till now)
- ❖ Member of Community Service committee (2022- 2024)
- ❖ Artificial Intelligence course Coordinator for Diploma program (2020-2021)
- ❖ CLOUD SYSTEMS MANAGEMENT course Coordinator for Diploma program(2024)

COMMUNITY SERVICE

- ❖ arbitration of projects of **the national project of technical scientific designs** -JazanEducation General, Administration Ministry of education (2019-2020)

- ❖ Providing a training course in **computer basics in office work**. The target group is all members of society. **Jazan University- Computer Science& Information system (2023)**

PUBLICATIONS

Research Activities:

Title of the Published Articles	1. **R. Elarabi, F. Alqahtani, A. Balobaid, H. Zain and N. Babiker, "COVID-19 Analysis and Predictions Evaluation for KSA Using Machine Learning,"** 2021 International Conference on Software Engineering & Computer Systems and 4th International Conference on Computational Science and Information Management (ICSECS-ICOCSIM), 2021, pp. 261-266, doi: 10.1109/ICSECS52883.2021.00054. https://ieeexplore.ieee.org/document/9537014, 2. **Rawia Elarabi ''Emotion Recognition System for Detecting Multimodal Feature using Intelligent Support Vector Machine''**

International Journal of Engineering 2022 NeuroQuantology 20(19) https://doi.org/10.48047/nq.2022.20.19.NQ99124

3. **Elarabi, Rawia**; Babiker, Najla; Balobaid, Awatef; and M. Abd-Elhafiez, Walaa (2023) "**Utilizing LASSO for Breast Cancer Prediction: A Hyper Machine Learning Technique with Significant,**" *Information Sciences Letters*: Vol. 12 : Iss. 12 , PP -.
Available at:
https://digitalcommons.aaru.edu.jo/isl/vol12/iss12/22. **(Q2)**

4. Vidya Sivalingam, **Rawia Elarabi**, J. Bhargavi, M. Sahaya Sheela, R. Padmapriya, & A. N. Arularasan. (2023). **A Novel Approach for Plant Leaf Disease Predictions Using Recurrent Neural Network RNN Classification Method**. *Journal of Advanced Research in Applied Sciences and Engineering Technology*, *31*(2), 327–338. https://doi.org/10.37934/araset.31.2.327338. **(Q2)**

5. Boush, M. S. A., Hussein, R. E. E., **Elarabi, R**., & Hassen, S. M. (2023**). IoT Applications, Platforms, Systems, And Framework based on Blockchain**. *International Journal on Recent and Innovation Trends in Computing and Communication*, *11*(9), 3714–3721. https://doi.org/10.17762/ijritcc.v11i9.959 .**(Q3)**

6. **Rawia Elarabi**, Abdelrahman Elsharif Karrar, Murtada El-mukashfi El-taher. (2023). **Intelligent System for the Prediction of Heart Diseases Using Machine Learning Algorithms with Anew Mixed Feature Creation (MFC) technique**. International journal of computer science and network security : IJCSNS, 23(5), 148-162. https://doi.org/10.22937/ijcsns.2023.23.5.17

7. Mawahib Sharafeldin Adam Boush, **Rawia Ahmed Mohammed Ebrahim**, Ragia Elsayed Eisawy Hussein, Samar Mansour Hassen-(2023). **Edge Computing for Real-Time Inference in Internet of Things Environments: Challenges and Solutions**. Journal of Advanced Zoology ISSN: 0253-7214 Volume 44 Issue S-3 Year 2023 Page 1135:1143**. (Q4)**.

8. Karrar, A.E., **Elarabi, R**. (2023). **An Intelligent Machine Learning-Based System for Predicting Heart Disease Using Mixed Feature Creation Technique.** In: Saeed, F., Mohammed, F., Mohammed, E., Al-Hadrami, T., Al-Sarem, M. (eds) Advances on Intelligent Computing and Data Science. ICACIn 2022. Lecture Notes on Data Engineering and Communications Technologies, vol 179. Springer, Cham. https://doi.org/10.1007/978-3-031-36258-3_31

INTERNATIONAL CONFERENCE

❖ **''An Intelligent Machine Learning-based System for Predicting Heart Disease Using Mixed Feature Creation Technique''** 3rd International Conference of Advanced Computing and Informatics (ICACIN 2022), on October 15-16, 2022. Springer (accepted)

POSTER PRESENTATION

- Presented a webinar **'' Artificial Intelligence in Library and Educational Settings Concerns and Opportunities ''**. April -20 -20 22
- Presented a webinar Women in data science '' **Data science in marketing and cybersecurity'',** Attaa Digital Mars -02-2021.
- Presented a **''Power to Impact Challenge 2023''** KUST Jan,2023.
- Presented &Participating with a scientific paper in the'' **technical research forum and looking forward to its future''** Jazan University- Computer Science& Information system (2023)
- Presented &**Partici**pation in the "**Product Marketing**" training course in Thinkthon . Jazan University- Computer Science& Information system (18-5:23_5 2023).

INVITED TALKS

- Presented a Talk **on'' International Conference on Software Engineering & Computer Systems((ICSECS-2021)''**, ICSECS-ICOCSIM 2021, IEEE, Phang, Malaysia, Aug 24-26, 2021)
- Presented a Talk **on''An Intelligent Machine Learning-based System for Predicting Heart Disease Using Mixed Feature Creation Technique''** 3rd International Conference of Advanced Computing and Informatics (ICACIN 2022), on October 15-16, 2022 Faculty of science Ain Chock - Casablanca , Morocco

ACHIEVEMENTS
The first award in the presentation in supervising the project of the female students participating in the competition **''Project Exhibition Day ''** - Department of Computer Science December 2019 Jazan University.

Membership in Scientific Society:

- IEEE Membership

AREAS OF RESEARCH INTERREST

Artificial Intelligence, Machine Learning, Internet of Things,

Data Science, Big Data, Robotics

LANGUAGES

- **English**
- **Arabic (Native Speaker)**

PERSONAL PROFILE

Name: Rawia Ahmed Mohammed Ibrahim
 Nationality: Sudanese
Gender: Female**, Marital status:** Married
Qualification: MSc in Computer Science
Country of study: Sudan
Major: Computer Science, Year of Award: June 2013
Phone Number: 0532635962 or 0535725956
Birth day: 15-12-1981
Religion: Muslim **Address:** Saudia – Jazan ,Date: 1/1/2025