

Personal Information

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Birth Date : 18/12/1984
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Education

June 2002 : BAC in Electrical engineering (high school of Laroussi Abdelkader, Tighennif, Mascara, Algeria).
July 2007 : Computer Engineer (University of Mustapha Stambouli, Mascara, Algeria).
November 2010 : Magister in computer sciences (Higher National School of Computer Sciences (ESI), Algiers, Algeria).
October 2020 : PhD in Computer Science (University of Oran 1, Oran, Algeria).

Experience

From March 2009 To November 2012 : Computer Engineer (Systems Engineer) in Local government Services (State of Mascara, Algeria).
From November 2012 To June 2021 : Assistant Professor / Researcher (University of Mustapha Stambouli, Mascara, Algeria).
From June 2021 To present : Associate Professor / Researcher (University of Mustapha Stambouli, Mascara, Algeria).
From February 2023 To September 2024 : Assistant Head of Department (Department of Mathematics, University of Mustapha Stambouli, Mascara, Algeria).
From October 2024 To present : Research Team head (Labtec-Ia Laboratory, University of Mustapha Stambouli, Mascara, Algeria).

Professional skills

Programming languages and tools : C/C++, JAVA, C++ Builder, Delphi, MATLAB.
Web programming languages : PHP, JAVASCRIPT, CSS, HTML.
DBMS : MySQL, SQL Server.
Operating systems : Windows, Linux.
Others : Office, Weka.

Research

Research interests: Application of Machine Learning and Deep Learning techniques to solves problems in Software Engineering and Information Security.

Publications :

International Journals Papers (6) :

Zagane, M., Alenezi, M (2024). Enhancing Software Co-Change Prediction: Leveraging Hybrid Approaches for Improved Accuracy. IEEE Access, Numéro : 2024.3399101, 2024
Zagane, M., Alenezi, M., & Abdi, M. K. (2022). Hybrid Representation to Locate Vulnerable Lines of Code. International Journal of Software Innovation, Numéro : 12(1) 25–38, 2022
Alenezi, M., Zagane, M., & Javed, Y. (2020). Efficient Deep Features Learning for Vulnerability Detection Using Character N-Gram Embedding. Jordanian Journal of Computers and Information Technology, 1. <https://doi.org/10.5455/jjcit.71-1597824949>

- Zagane, M.,** Abdi, M. K., & Alenezi, M. (2020). A New Approach to Locate Software Vulnerabilities Using Code Metrics. *International Journal of Software Innovation*, 8(3), 82–95. <https://doi.org/10.4018/IJSI.2020070106>
- Zagane, M.,** Abdi, M. K., & Alenezi, M. (2020). Deep Learning for Software Vulnerabilities Detection Using Code Metrics. *IEEE Access*, 8(1), 74562–74570. <https://doi.org/10.1109/ACCESS.2020.2988557>
- Zagane, M.,** & Abdi, M. K. (2019). Evaluating and Comparing Size, Complexity and Coupling Metrics as Web Applications Vulnerabilities Predictors. *International Journal of Information Technology and Computer Science(IJITCS)*, 11(7), 35–42. <https://doi.org/10.5815/ijitcs.2019.07.05>

National Journals Paper (1) :

- Zagane, M.,** & Abdi, M. K. (2019). Évaluation des Metriques de Couplage en tant qu'indicateurs de Vulnérabilités dans les Applications Web. *Communication Science & Technology*, 22.

Conference Papers (2)

- Zagane, M.,** Abdi, M. K., & Alenezi, M. (2021). Automatic Feature Extraction Method for Software Vulnerability Prediction. 1st National Conference on Applied Computing and Smart Technologies, SBA, Algeria 2021.
- B. Meftah, M. Debakla, **M. Zagane**, A. Benyettou, O. Lezoray. Spiking neuron network for image segmentation. 10th Maghrebien Conference on Information Technologies, Oran 2008.

Datasets (2)

- Zagane, M., & Abdi, M. K. (2019). Code Metrics Dataset. <https://github.com/mzagane/CMDataset>
- Zagane, M., & Abdi, M. K. (2019). Sliced Code metrics dataset. https://github.com/codemetricsdataset/slice_codemetricsdataset/

Languages

Arabic : excellent level.
French : good level.
English : good level.