SEIF EDDINE BOUZIANE

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Research Interests

My research interests reside mostly in the field of artificial intelligence and machine learning, specificaly computer vision and time series forecasting.

Education

2017 – 2022	**University of Badji Mokhtar -** Annaba	
	PhD in Information Science and Technology	
2015 – 2017	**University of Badji Mokhtar-** Annaba	
	MA in Information Science and Technology	
2012 – 2015	**University of Badji Mokhtar -** Annaba	
	BA in Computer Science	

Research Projects

2017 – 2022   **Predictive multi-agent system for the simulation of pollution due to energy consumption**
PhD Project.
This project dealt with the issue of forecasting the environmental cost of energy production is necessary for better decision making and easing the switch to cleaner energy systems in order to reduce air pollution. In this work we used a hybrid approach based on artificial neural networkd and an agent based architecture.

2016 – 2017   **Glaucoma diagnosis using deep learning**
MA Project.
In this work we proposed a convolutional neural networks approach to diagnosing glaucoma using data from retinal fundus images in order to achieve high classification accuracy.

Recent Publications

2022   **Towards an energy management system based on a multi-agent architecture and LSTM networks**
Seif Eddine Bouziane, Mohamed Tarek Khadir.
Journal of Experimental & Theoretical Artificial Intelligence.

2021   **A collaborative predictive multi-agent system for forecasting carbon emissions related to energy consumption**
Seif Eddine Bouziane, Mohamed Tarek Khadir, Julie Dugdale
Multiagent and Grid Systems.

2018   **Glaucoma diagnosis using cooperative convolutional neural networks**
Nacer Eddine Benzebouchi, Nabiha Azizi, Seif Eddine Bouziane
International Journal of Advances in Electronics and Computer Science.

Recent Conferences

2022   **Modeling renewable energy production and CO2 emissions in the region of Adrar in Algeria using LSTM neural networks.**
Seif Eddine Bouziane, Julie Dugdale, Mohamed Tarek Khadir
55th Hawaii International Conference on System Sciences, Hawaii, USA.

2020   **Artificial Neural Networks modeling of electrical renewable energy both photovoltaic and wind for the region of Adrar Algeria**
Khadir Mohamed Tarek, Seif Eddine Bouziane
International Conference on Artificial Intelligence in Renewable Energetic Systems, Tipaza, Algeria.

2019   **Predictive Agents for the Forecast of CO2 Emissions Issued from Electrical Energy Production and Gas Consumption**
Seif Eddine Bouziane, Khadir Mohamed Tarek
International Conference on Embedded Systems and Artificial Intelligence.