

## *Curriculum vitae*

*Ruxandra Stoean*

### **Current position:**

- Associate Professor, Department of Computer Science, Faculty of Sciences, University of Craiova, Romania
- Associate, Department of Computer Science, Faculty of Mathematics and Computer Science, West University of Timisoara, Romania
- External Member, Group for Integrated Systems Engineering, University of Malaga, Spain

### **Education:**

- Dr Habil in Computer Science (2023), West University of Timisoara, Romania
- PhD degree in Computer Science (2008), Babes-Bolyai University of Cluj-Napoca, Romania
- MSc degree and BSc degree in Computer Science (2003, 2002), University of Craiova, Romania

**Expertise:** deep learning, image processing, time series, biomedical applications, machine learning, evolutionary computation

### **Hirsch index and citations:**

Measure	<a href="#">Web of Science</a>	<a href="#">Scopus</a>	<a href="#">Google Scholar</a>
Hirsch index	16	17	21

### **Profile addresses:**

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=19639646200>

ResearcherID: <https://publons.com/researcher/1730023/ruxandra-stoean> (C-7241-2008)

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DBLP: <https://dblp.uni-trier.de/pers/hd/s/Stoean:Ruxandra>

Google Scholar: <https://scholar.google.ro/citations?user=VDSuxOcAAAAJ&hl=ro>

### **Evaluator:**

- Expert evaluator of the European Commission, European Health and Digital Executive Agency (HADEA), units A1. Robotics and Artificial Intelligence Innovation and Excellence, A3. Health Research and B2. Digital.

- Expert evaluator of the European Commission, European Research Executive Agency (REA), Unit A2. Marie Skłodowska-Curie European Postdoctoral Fellowships, Unit C3. Widening Participation.
- Expert evaluator for the Doctoral Funding Programme “Mathilde von Mevissen”, TH Köln, Germany
- Expert evaluator for the Romanian Executive Agency for Higher Education, Research, Development and Innovation Funding

### Research grants:

- CETPartnership Joint Call 2022, Increasing control and efficiency in regional energy systems using quantum sensors and machine learning (QuantumIRES), European Partnership, Co-funded by the European Union, 2023-2026, Leader of the Romanian partner in the consortium
- Exploratory research project, 178PCE/2021, PN-III-P4-ID-PCE-2020-0788, ”Object Perception and Reconstruction with deep neural Architectures” (OPERA), 2021-2023, Romanian National Funding Agency UEFISCDI, Project leader
- Experimental-demonstrative project, 408PED/2020, PN-III-P2-2.1-PED-2019-2227, ”Learning deep architectures for the Interpretation of Fetal Echocardiography” (LIFE), 2020-2022, Romanian National Funding Agency UEFISCDI, Project leader

### Editorial Board:

- Associate Editor, Computers in Biology and Medicine, 2024-present
- Academic Editor, PLOS ONE, 2018-2023

### Most important publications:

1. **Ruxandra Stoean**, Nebojsa Bacanin, Catalin Stoean, Leonard Ionescu, Miguel Atencia, Gonzalo Joya, Computational framework for the evaluation of the composition and degradation state of metal heritage assets by deep learning, *Journal of Cultural Heritage*, vol. 64, November–December 2023, pp. 198-206, <https://doi.org/10.1016/j.culher.2023.10.007>, 2023.
2. Cano Domingo, **Ruxandra Stoean**, Gonzalo Joya Caparrós, Nuria Novas Castellano, Manuel Fernandez Ros, Jose Antonio Gázquez Parra, A Machine Learning hourly analysis on the relation the Ionosphere and Schumann Resonance Frequency, *Measurement*, vol. 208, 112426, <https://doi.org/10.1016/j.measurement.2022.112426>, 2023.
3. Carlos Cano Domingo, Nuria Novas Castellano, **Ruxandra Stoean**, Manuel Fernandez Ros and Jose A. Gazquez Parra, Schumann resonance modes and ionosphere parameters: An annual

variability comparison, *IEEE Transactions on Instrumentation & Measurement*, vol. 71, pp. 1-10, <https://doi.org/10.1109/TIM.2022.3194912>, 2022.

4. **Ruxandra Stoean**, Analysis on the potential of an EA–surrogate modelling tandem for deep learning parametrization: an example for cancer classification from medical images, *Neural Computing and Applications*, 32, pp. 313–322, <https://doi.org/10.1007/s00521-018-3709-5>, 2020.
5. Catalin Stoean, **Ruxandra Stoean**, Miguel Atencia, Moloud Abdar, Luis Velázquez-Pérez, Abbas Khosravi, Saeid Nahavandi, U. Rajendra Acharya, Gonzalo Joya, Automated Detection of Presymptomatic Conditions in Spinocerebellar Ataxia Type 2 Using Monte Carlo Dropout and Deep Neural Network Techniques with Electrooculogram Signals, *Sensors*, Vol. 20, No. 11, 3032, <https://doi.org/10.3390/s20113032>, 2020.
6. Adriana Samide, Catalin Stoean, **Ruxandra Stoean**, Surface study of inhibitor films formed by polyvinyl alcohol and silver nanoparticles on stainless steel in hydrochloric acid solution using Convolutional Neural Networks, *Applied Surface Science*, 475, pp. 1-5, <https://doi.org/10.1016/j.apsusc.2018.12.255>, 2019.