

We are a research campus with a strong tradition in biosciences focused on complex ecological, evolutionary & developmental aspects of LIFE.

University of South Bohemia - Faculty of Science is looking for a researcher to help drive the new concept of the institute.

Machine Learning and Algorithm Researcher for Dynamic Systems

We seek an enthusiastic and experienced AI/ML researcher who will contribute to developing advanced prediction and anomaly detection methods using mathematical analysis of neural networks and learning algorithms with potential for interdisciplinary research. The work is expected to bridge academic research, the potential for industry cooperation, and teaching activities. The researcher is expected to have a strong interest in mathematical analysis and learning systems along with a fundamental background in dynamical systems, algorithm implementation, and data analysis.

The focus of our research team:

1. Computational intelligence
2. Anomaly detection
3. Prediction and control
4. Explainable-AI and neural networks
5. Interdisciplinary research

Not limited to any domain

Responsibilities

- Participation in basic and applied research project
- Research and development of methods based on machine learning (neural networks)
- Algorithm derivation, implementation, and validation
- Cooperation in publication activity
- Teaching assistance
- Based on seniority-level/interest: project preparation, grant proposal, networking/collaboration seeking

Requirements

- Master or PhD degree in any of (or equivalent):
 - Artificial Intelligence, Machine learning
 - Data analysis, Data engineering
 - Computer science, Information systems
 - Cybernetics, Control, or related areas
- Fundamentals of neural networks/ML algorithms
- Fluent in English
- Basic knowledge of dynamical systems
- Preferred technologies: Python, MATLAB

- Basics of mathematical analysis (linear algebra, statistics, optimization)
- Ability to learn new things, develop own ideas, and expand solutions by analysis and computations.

What do we offer

- guarantee of European standards given by European Charter for Researchers <https://euraxess.ec.europa.eu/euraxess/charter-code-researchers>
- emphasis on a professional as well as personal development
- full time job, fixed term contract with possibility to convert into permanent contract, flexible start date
- financial support for the initial development of research activities
- possibility to be involved in research projects that already runs
- flexible working hours, 8 weeks of vacation, performance bonus
- meal allowance, discounted mobile and banking services, MS Office for personal use, language courses

Please submit your structured CV and cover letter via e-mail to ibukovsky@ieee.org by **August 15th 2022**. For more information, please visit: www.prf.jcu.cz .