



CURRICULUM VITAE

Date personale:

Nume, Prenume: **Bolboacă Roland**

Titlu academic: Asist. Univ. Dr.

Departament: DIETI

E-mail instituțional: roland.bolboaca@umfst.ro

Domenii de interes (maximum 5 domenii, direcții):

- a. Machine learning (Învățare automată)
- b. Artificial intelligence (Inteligență artificială)
- c. Anomaly detection systems and ensembles (Sisteme și ansamble de detectare a anomaliilor)
- d. Nonlinear systems modeling (Modelarea sistemelor neliniare)
- e. Information systems security (Securitatea sistemelor informatice)

Activitate de cercetare:

1. Proiecte de cercetare (maximum 3 proiecte)
 - a. Horizon 2020 DIAS (Smart Adaptive Remote Diagnostic Antitampering Systems)
 - b. Horizon 2020 GHOST (Safe-Guarding Home IoT Environments with Personalised Real-time Risk Control)
2. Lucrări publicate in extenso (maximum 5 lucrări)
 - a. Bolboacă, R. (2022). Adaptive ensemble methods for tampering detection in automotive aftertreatment systems. *IEEE Access*, 10, 105497-105517.
 - b. Bolboacă, R., & Haller, P. (2023). Performance analysis of long short-term memory predictive neural networks on time series data. *Mathematics*, 11(6).
 - c. Bolboacă, R., Lenard, T., Genge, B., & Haller, P. (2020, August). Locality sensitive hashing for tampering detection in automotive systems. *In Proceedings of the 15th International Conference on Availability, Reliability and Security* (pp. 1-7).
 - d. Bolboacă, R., Haller, P., & Genge, B. (2024, July). Evaluation Techniques for Long Short-Term Memory Models: Overfitting Analysis and Handling Missing



Values. In *International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems* (pp. 228-240). Singapore: Springer Nature Singapore.

- e. **Bolboacă, R., & Genge, B. (2023, October). Unsupervised Outlier Detection in Continuous Nonlinear Systems: Hybrid Approaches with Autoencoders and One-Class SVMs. In *International Conference Interdisciplinarity in Engineering* (pp. 376-398). Cham: Springer Nature Switzerland.**