

Research Position

OFFER DESCRIPTION

University of Bucharest (UB) is running the **NETALERT** project (<https://cs.unibuc.ro/~pirofti/netalert.html>) led by **Assoc. Prof. Dr. Paul Irofti** (paul.irofti@fmi.unibuc.ro) through the **Research Center for Logic, Optimization and Security** (LOS) (<https://los.cs.unibuc.ro/>).

The project “**NetAlert – Automatic tools for detecting abnormal behavior in computer networks**” aims to create a hardware-software sensor solution for detecting anomalies in computer networks based on the monitoring and analysis of data packets.

The network-mounted sensor will provide real-time alerts on abnormal traffic behaviors using two complementary approaches:

- (i) static analysis based on rules and behavioral patterns
- (ii) machine learning (ML) analysis without prior expert knowledge

Check the set of required [scenarios](https://cs.unibuc.ro/~pirofti/netalert/netalert-scenarios.pdf) (<https://cs.unibuc.ro/~pirofti/netalert/netalert-scenarios.pdf>) and [features](https://cs.unibuc.ro/~pirofti/netalert/netalert-features.pdf) (<https://cs.unibuc.ro/~pirofti/netalert/netalert-features.pdf>) (in Romanian) for further technical details of what needs to be accomplished.

The expected results are to be published in research papers (both top conferences and journals) and Python software packages. The postdoc will be fully integrated with the relevant UB and LOS research environments and staff (approximately 20 people).

Thus, we are searching for 1 part-time researcher.

Contact: Paul Irofti <paul.irofti@fmi.unibuc.ro> for further information.

Job Application: <https://tinyurl.com/NetAlertJobs>