

INFORMAȚII PERSONALE

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EXPERIENȚĂ PROFESIONALĂ

- Data
- Loc de muncă
- Profesia
- Ocupația
- Activitatea principală
- Conducător de doctorat
- Domeniul

1996 - prezent

Universitatea Tehnică din Cluj-Napoca, Departamentul
Inginer

Profesor universitar, conferențiar și Sef de lucrări

Activități didactice și de cercetare

Da

Domeniul conducerii de doctorat: Știința calculatoarelor

- Data
- Loc de muncă
- Ocupația
- Activitatea principală

1985-1996

Institutul de tehnică de calcul ITC, filiala Cluj-Napoca

cercetător

Cercetare și dezvoltare de produse informatice și de calcul

EDUCAȚIE ȘI STUDII DE CALIFICARE

- Anul
- Numele și tipul organizației
- Titlul obținut
- Specializarea

1997-2003

Universitatea Tehnică din Cluj-Napoca

Doctor inginer

Calculatoare

- Anul
- Numele și tipul organizației
- Titlul obținut
- Specializarea

1980-1985

Universitatea Tehnică din Cluj-Napoca

inginer

calculatoare

ACTIVITATE DIDACTICĂ

Titular al cursurilor	Programul de studii	Anul
Sisteme cu microprocesoare	Automatică și Informatică Aplicată	II
Microprocessor-based Systems	Automatica engleza	II
Structura Sistemelor de calcul	Calculatoare și Tehnologia Informației	III
Programare în limbaj de asamblare	Calculatoare și Tehnologia Informației	I

Informatica industrială	Tehnologia informației	IV
Informatica industrială	Master dom. Calculatoare	I
Programare și securitate la nivelul arhitecturii x86	Master SISC	I

ACTIVITATE ȘTIINȚIFICĂ

TEME DE CERCETARE

Sisteme de calcul dedicate
 Rețele industriale de comunicații
 Detectia anomaliilor prin tehnici de inteligență artificială
 IoT, IioT, Industry 4.0
 Aplicații informatice în medicină
 Securitatea sistemelor

Lucrări științifice

1. Serban, CM; Sebestyen, G and Hangan, A, ECG Data Classification With Privacy Preservation in the IoT Context, 2024, 2024 IEEE 3RD CONFERENCE ON INFORMATION TECHNOLOGY AND DATA SCIENCE, CITDS 2024 , pp.199-204
2. Portase, RM; Portase, RL; (...); Sebestyen, G., LEDA-Layered Event-Based Malware Detection Architecture, Sensors 2024
3. Portase, RM; Colesa, A and Sebestyen, G, SpecRep: Adversary Emulation Based on Attack Objective Specification in Heterogeneous Infrastructures, Sensors, 2024
4. Portase, RM; Muntea, AM; (...); Sebestyen, G, Detection Strategies for COM, WMI, and ALPC-Based Multi-Process Malware, Sensors, 2024
5. Ticovan, IV and Sebestyen, G, Forensic Investigation of Data Storage Systems, 2024 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS, AQTR,, pp.15-21
6. Serban, CM; Sebestyen, G and Hangan, A, Anomaly Detection in Water Consumption Patterns Using Prediction and Clustering Approaches, 2024 IEEE INTERNATIONAL CONFERENCE ON AUTOMATION, QUALITY AND TESTING, ROBOTICS, AQTR pp.3-8
7. Radu-Marian Portase, Adrian Coleșa, Gheorghe Sebestyen, Efficient Multi-Stage Detection of Malicious Windows Executable During Execution, 2023 IEEE 19th International Conference on Intelligent Computer Communication and Processing (ICCP)
8. Zoltan Czako, Gheorghe Sebestyen, Anca Hangan, Benchmarking Anomaly Detection Algorithms using Hyperparameter Optimization, 2023 IEEE 19th International Conference on Intelligent Computer Communication and Processing (ICCP)
9. Aurel-Dragoș Hofnă, Tamás Bakos, Gheorghe Sebestyen-Pal, Protecting Against Caller ID Spoofing Attacks Using In-band Signaling, 2023 IEEE 19th International Conference on Intelligent Computer Communication and Processing (ICCP)
10. Zoltan Czako, Anca Hangan, Dragos Lisman, Gheorghe Sebestyen, Marcus-Mihai Deszi, A Prototype System for Urban Water Consumption Monitoring and Anomaly Detection, 2022 IEEE 18th International Conference on Intelligent Computer Communication and Processing (ICCP), 2022
11. Stefan Lucian Popa, Teodora Surdea-Blaga, Dan Lucian Dumitrascu, Giuseppe Chiarioni, Edoardo Savarino, Liliana David, Abdulrahman Ismaiel, Daniel Corneliu Leucuta, Imre Zsigmond, Gheorghe Sebestyen, Anca Hangan, Zoltan Czako, Automatic Diagnosis of High-Resolution Esophageal Manometry using Artificial Intelligence, Journal of Gastrointestinal & Liver Diseases, editura MDPI, 2022,
12. Anca Hangan, Costin-Gabriel Chiru, Diana Arsene, Zoltan Czako, Dragos Florin Lisman, Mariana Mocanu, Bogdan Pahontu, Alexandru Predescu, Gheorghe Sebestyen, Advanced Techniques for Monitoring and Management of Urban Water Infrastructures—An Overview, revista Waters, ed. MDPI, 2022
13. Andrei Luțăș, Gheorghe Sebestyen, Raul Toșa, Adrian Coleșa, VE-VMI: High-Performance Virtual Machine Introspection Based on Virtualization Exception, 2021 20th International Symposium on Parallel and Distributed Computing (ISPD)
14. Czako, Z., Sebestyen, G., Hangan, A. Colorectal image classification with transfer learning and auto-adaptive artificial intelligence platform, Advances in Intelligent Systems and Computing, 1160 AISC, pp. 534-543
15. G Sebestyen, A Hangan, Z Czako, Anomaly detection in water supply infrastructure systems, 2021 23rd International Conference on Control Systems and Computer Science (CSCS), 2021
16. G. Sebestyen, A. Hangan, A. Misin, "Travel assistant for persons with visual disabilities", IEEE AQTR 2020, International conference on Automation, Quality, Testing and Robotics, 2020, Cluj-Napoca
17. Z Czako, G Sebestyen, A Hangan, COVID-19 Preliminary Patient Filtering based on Regular Blood Tests using Auto-Adaptive Artificial Intelligence Platform, 2020 IEEE-ICCP2020 16th International Conference on Intelligent Computer
18. Zoltan Czako, Anca Hangan, Gheorghe Sebestyen, Teodora Surdea-Blaga, Stefan L. PopaI, "IRP Classification and Probe Positioning Failure Detection in High-Resolution Esophageal Manometry using Machine Learning", 8th Int. Conf. on Mathematics and Informatics, September 9-10, 2021, T^argu Mures, Romania
19. Z Czako, G Sebestyen, A Hangan, "AutomaticAI-A Hybrid Approach for Automatic Artificial Intelligence Algorithm Selection and Hyperparameter Tuning", in journal Expert Systems with Applications, Editor Elsevier Volume 182, 15 November 2021,

Carti si capitol de carti mai recente

1. Z. Czako, Gh. Sebestyen, A. Hangan, Artificial Intelligence Algorithms Selection and Tuning for Anomaly Detection, Studies in Computational Intelligence book series, Springer 2021
2. Z. Czako, Gh. Sebestyen, A. Hangan, Trends and Innovations in Information Systems and Technologies. Volume 2. Chapter:"Colorectal Image Classification with Transfer Learning and Auto-Adaptive Artificial Intelligence Platform" p.534-543, ISBN 978-3-030-45691-7, Springer 2020
3. Opreș, C., Cabău, G., Pal Sebestyen, G., Multi-centroid Cluster Analysis in Malware Research/ in Advances in Intelligent Systems, Springer 2018
4. Zoltán Szántó, Lőrinc Márton, Sebestyén György, Supervised Robot Groups with Reconfigurable Formation: Theory and Simulations, Springer Lecture Notes in Computer

GRANTURI, CONTRACTE DE
CERCETARE

Contracte de cercetare (peste 30) , dintre care cele mai recente:

1. Watergame - Sistem de management pentru monitorizarea consumurilor de apa, 2020-2022
2. Servicii de transfer de cunostinte in domenii inovative: retele senzoriale si tehnologii RFID, 2018-2019
3. SIPADOC – Integrated system for reevaluation of national cultural patrimony, 2011
4. EGI-Inspire – European Grid Initiative, FP7 project, 2010-2013
5. Proinova – Digital library for research and innovation, 2015
6. Managementul depozitelor, contract Silcotub Zalau, 2015-16

Cluj-Napoca, 2.06.2025

Prof.dr.ing. Gheorghe Sebestyen

