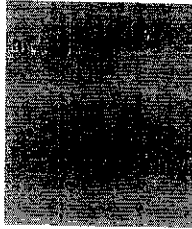


INFORMAȚII PERSONALE

Murvoy Pal-Ștefan



Sexul Data nașterii Naționalitatea

POSTUL PENTRU CARE SE CANDIDEAZĂ

Șef lucrări/Lector universitar

- 2016-prezent **Șef lucrări/Lector universitar**
Facultatea de Automatica si Calculatoare, Universitatea Politehnica Timișoara
- 2014-2016 **Cadru didactic asociat**
Facultatea de Automatica si Calculatoare, Universitatea Politehnica Timișoara
- 2014-2018 **Software developer**
SC Lasting Software SRL, Timișoara
- 2005-2014 **Software developer**
SC Continental Automotive România SRL, Timișoara

EXPERIENȚA PROFESIONALĂ

- 2010-2014 **Studii doctorat**
Facultatea de Automatică și Calculatoare, Universitatea Politehnica Timișoara , Timișoara
- 2008-2010 **Studii master**
Facultatea de Automatică și Calculatoare, Universitatea Politehnica Timișoara , Timișoara
- 2003-2008 **Studii universitare, ciclul licență**
Facultatea de Automatică și Calculatoare, Universitatea Politehnica Timișoara , Timișoara

EDUCAȚIE ȘI FORMARE

Limba(i) maternă(e) Română

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleza	C1	C1	C1	C1	C1
Franceza	A1	A1	A1	A1	A1

COMPETENTE PERSONALE

Competențe de comunicare • bune competențe de comunicare dobândite prin experiența proprie de lucru în echipă și prin procesul de predare

Competențe dobândite la locul de muncă	<ul style="list-style-type: none">▪ cunoașterea proceselor de control al calității și a etapelor implicate în procesul de dezvoltare a produselor software pentru domeniul embedded
Competențe informatice	<ul style="list-style-type: none">▪ o bună cunoaștere a instrumentelor Microsoft Office™▪ utilizare LaTeX▪ o bună cunoaștere a proceselor și uneltelor implicate în dezvoltarea de produse software embedded▪ abilități de programare în C, C++
Permis de conducere	<ul style="list-style-type: none">▪ A,B

INFORMAȚII SUPLIMENTARE

Cursuri	Următ cursurile școlii de vară Advanced Computer Architecture and Compilation for High-Performance and Embedded Systems (ACACES'11), Fiuggy, Italia, iulie 2011.
Teza de doctorat	Pal-Ștefan MURVAY, Cryptographic Security for Vehicular Controller Area Networks, Editura Politehnica, România, Feb. 2014, ISBN 978-606-554-774-2
Director proiecte de cercetare	<ul style="list-style-type: none">▪ SEVEN (proiect național de cercetare pentru Postdoctoranzi 2018-2020), Security Enhancements and Vulnerability assessment for industry-standard Networks, Resurse Umane, PN-III-P1-1.1-PD-2016-1198, în calitate de director și cercetător postdoctoral.<ul style="list-style-type: none">▪ Proiect finanțat prin UEFISCDI. Valoarea finanțării: 219837 RON▪ Lucrări relevante:<ul style="list-style-type: none">• P.S. Murvay, B. Groza, A brief look at the security of DeviceNet communication in industrial control systems, The second Central European Cybersecurity Conference (CECC 2018), 2018• P.S. Murvay, B. Groza, Practical security exploits of the FlexRay in-vehicle communication protocol, The 13th International Conference on Risks and Security of Internet and Systems (CRISIS 2018), 2018
Membri în proiecte de cercetare	<ul style="list-style-type: none">▪ PRESENCE (proiect național de cercetare pentru Tinere Echipe 2018 - 2020), Private and secure interactions between vehicles and intelligent electronic devices, Resurse Umane, PN-III-P1-1.1-TE-2016-1317, în calitate de cercetător postdoctoral.▪ cSeArMaN (proiect național de cercetare în cadrul programului pentru Tinere Echipe 2014-2016), Cryptographic Security for Automotive Embedded Devices and Networks, Resurse Umane, PN-II-RU-TE-2014-4-1501, în calitate de cercetător postdoctoral.▪ DISSIS (national research grant PN2 2008-2011), Cercetări în Designul și Implementarea unor Soluții moderne pentru Securitatea Informației în Sisteme distribuite SCADA, DCS, și de control la distanță cu aplicații în distribuția gazelor, IDEI, PN2 940/2008, în calitate de cercetător doctorand.

Lucrări științifice

- B. Groza, P.S. Murvay, Efficient Intrusion Detection with Bloom Filtering in Controller Area Networks (CAN), IEEE Transactions on Information Forensics and Security, accepted for publication, 2019
- C. Jichici, B. Groza, P.S. Murvay, Examining the Use of Neural Networks for Intrusion Detection in Controller Area Networks, The 11th International Conference on Security for Information Technology and Communications (SECITC 2018), 2018
- P.S. Murvay, B. Groza, A brief look at the security of DeviceNet communication in industrial control systems, The second Central European Cybersecurity Conference (CECC 2018), 2018
- P.S. Murvay, B. Groza, Practical security exploits of the FlexRay in-vehicle communication protocol, The 13th International Conference on Risks and Security of Internet and Systems (CRISIS 2018), 2018
- B. Groza, L. Popa, P.S. Murvay, INCANTA - INtrusion detection in Controller Area Networks with Time-covert Authentication, International Workshop on Cyber Security for Intelligent Transportation Systems (CSITS'18, in conjunction with ESORICS 2018), 2018
- T.S. Andreica, B. Groza, P.S. Murvay, Applications of pairing-based cryptography on automotive-grade microcontrollers, The 1st International Workshop on Safety, Security and Privacy in Automotive Systems (STRIVE'18, affiliated to SAFECOMP 2018), 2018
- H. Gurban, B. Groza, P.S. Murvay, Risk assessment and security countermeasures for vehicular instrument clusters, The 4th International Workshop on Safety and Security of Intelligent Vehicles (SSIV'18, affiliated to DSN 2018), 2018 (full paper)
- P.S. Murvay, B. Groza, Security shortcomings and countermeasures for the SAE J1939 commercial vehicle bus protocol, IEEE Transactions on Vehicular Technology, Vol 67, Issue 5, 2018
- B. Groza, P.S. Murvay, Security solutions for the CAN bus - bringing authentication to in-vehicle networks, IEEE Vehicular Technology Magazine, Vol 13, Issue 1, March 2018
- P.S. Murvay, B. Groza, DoS Attacks on Controller Area Networks by Fault Injections from the Software Layer, The 3rd International Workshop on Secure Software Engineering, affiliated with the 12th International Conference on Availability, Reliability and Security (ARES'17), 2017
- B. Groza, P.S. Murvay, A. van Herrewege, I. Verbauwhede, LiBrA-CAN: Lightweight Broadcast Authentication for Controller Area Networks, ACM Transactions on Embedded Computing Systems (TECS), Vol 16, Issue 3, April 2017 (extended version of paper presented at CANS'12)
- B. Groza, H. Gurban, P.S. Murvay, An experimental model for in-vehicle networks and subsystems, The 3rd International Conference on Vehicle Technology (VEHITS'17), 2017 (position paper)
- B. Groza, T. Andreica, P.S. Murvay, Designing wireless automotive keys with rights sharing capabilities on the MSP430 microcontroller, The 3rd International Conference on Vehicle Technology (VEHITS'17), 2017 (short paper)
- B. Groza, P.S. Murvay, T. Andreica, Evaluating SRAM as Source for Fingerprints and Randomness on Automotive Grade Controllers, The 13th International Conference on Security and Cryptography (SECRYPT'16), 2016 (full paper)
- P.S. Murvay, A. Matei, C. Solomon, B. Groza, Development of an AUTOSAR Compliant Cryptographic Library on State-of-the-Art Automotive Grade Controllers, The 11th International Conference on Availability, Reliability and Security (ARES'16), 2016 (full paper)
- B. Groza, H. Gurban, P.S. Murvay, Designing security for in-vehicle networks: a Body Control Module (BCM) centered viewpoint, The 2nd International Workshop on Safety and Security of Intelligent Vehicles (SSIV'16, affiliated to DSN 2016), 2016 (full paper)
- P. Vasile, B. Groza, P.S. Murvay, Performance analysis of broadcast authentication protocols on CAN-FD and FlexRay, Workshop on Embedded Systems Security (WESS'15), ACM, 2015
- P.S. Murvay, B. Groza, Source Identification Using Signal Characteristics in Controller Area Networks, IEEE Signal Processing Letters, Vol. 21, Issue 4, 2014
- P.S. Murvay, B. Groza, Performance Evaluation of SHA-2 Standard vs. SHA-3 Finalists on two Freescale Platforms, International Journal of Secure Software Engineering (IJSSE), Vol. 4, Issue 4, 2013
- B. Groza, P.S. Murvay, Efficient Protocols for Secure Broadcast in Controller Area Networks, IEEE Transactions on Industrial Informatics, Vol. 9, Issue 4, pp. 2034-2042, 2013
- B. Groza, P.S. Murvay, Secure Broadcast with One-Time Signatures in Controller Area Networks, International Journal of Mobile Computing and Multimedia Communications (IJMCMC), Vol. 5, Issue 3, pp. 1-18, 2013
- B. Groza, P.S. Murvay, A. Van Herrewege, I. Verbauwhede LiBrA-CAN: a Lightweight Broadcast Authentication protocol for Controller Area Networks, The 11th International Conference on Cryptology and Network Security (CANS'12), 2012
- B. Groza, M. Minea, M. Cristea, P.S. Murvay, M. Iacob, Protocol vulnerabilities in practice: causes, modeling and automatic detection, Proceedings of the Romanian Academy, Series A, Vol. 13, No. 2, April-June, 2012
- P.S. Murvay, I. Silea, A survey on gas leak detection and localization techniques, Journal of Loss Prevention in the Process Industries, Volume 25, Issue 6, November 2012, Elsevier
- B. Groza, P.S. Murvay, Broadcast Authentication in a Low Speed Controller Area Network, e-Business and Telecommunications, Springer CCIS, 2012

- P.S. Murvay, B. Groza, Performance improvements for SHA-3 finalists by exploiting microcontroller on-chip parallelism, The Sixth International Conference on Risks and Security of Internet and Systems (CRISIS'11), 2011
- P.S. Murvay, I. Silea, Design and implementation of a reliable gas leak detection system for domestic environments, The 15th International Conference on System Theory, Control, and Computing (ICSTCC'11), 2011
- B. Groza, P.S. Murvay, Secure Broadcast With One-Time Signatures In Controller Area Networks, The Sixth International Conference on Availability, Reliability and Security (ARES'11), 2011 [BibTeX]
- B. Groza, P.S. Murvay, I. Silea, T. Ionica, Cryptographic authentication on a 8051 based development board, The Third International Conference on Internet Monitoring and Protection (ICIMP'08), IEEE Comp. Soc., 2008