euro <i>pass</i>				
Curriculum vitae Europass				
PERSONAL INFORMATION				
Name / Surnames	Oniga István László			
Phone(s)	(52) 512-900 / 75016			
E-mail	oniga.istvan@inf.unideb.hu			
Date of birth	20.04.1960			
Current job	Associate professor, Department of Department of IT Systems and Networks, Faculty of Informatics, University of Debrecen, Hungary			
Main activities and responsibilities	<ul> <li>Teaching activities:         <ul> <li>BSc.: Digital design, Logic design with programmable devices</li> <li>MSc.: Logic design using HDL, Reconfigurable embedded systems, Hardware-szoftware co-design</li> <li>PhD school: Reconfigurable embedded systems based cyber-physical systems</li> </ul> </li> <li>Research: Implementation of artificial neural networks in field-programmable gate arrays; Embedded systems design and applications; e-Health and ambient assisted living systems; Assistive robots; Digital neural network based smart devices.</li> <li>PhD supervisor.</li> <li>Responsible of the Computer Science Engineering BSc. major and Reconfigurable and Embedded Systems, MSc. Minor.</li> </ul>			
WORK EXPERIENCE	Faculty of Engineering, Technical University of Cluj-Napoca, North University Center of Baia Mare			
Dates	Professor (2016-) Associate professor (2006-2016), Lecturer (1996-2006), Teaching assistant (1992-1996)			
Main activities and responsibilities	<ul> <li>Research and teaching activities (Lectures, seminars and labs). Course leader for the following disciplines: Digital design, Digital systems, Embedded systems, Computer Aided Design, Microcontrollers, Microprocessors systems, Intelligent Embedded Systems (MSc.).</li> <li>Responsible of the Applied electronics major</li> </ul>			
Dates	2013-present			
Occupation or position held	Director of "Intelligent embedded systems" research center			
Dates	2007-2011			
Occupation or position held	Electronics and Computer engineering Department Head			
Name and address of employer	North University Center of Baia Mare, Str. Dr. V. Babeş 62/A			
Type of business or sector	Higher education			
Dates	2000-2002			
Occupation or position held	Technical manager			
Main activities and responsibilities	Team management. Project manager for 12 projects and team member.			
Name and address of employer	SC Electronics Engineering SA, Baia Mare			
Type of business or sector	Research and design of ASIC and FPGA circuits			
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Dates	1990-1992				
Main activities and responsibilities	Electronic engineer				
Name and address of employer	Intreprinderea de Prospecțiuni și Explorări Geologice Maramureș, Baia Mare				
Dates	1985-1990				
Main activities and responsibilities	Electronic engineer				
Name and address of employer	Intreprinderea de Prospecțiuni Geologice și Geofizice București, Secția teritorială Geofizică de sondă Baia Mare				
Type of business or sector	Research and development				
Education and training					
Dates	1998-2005				
Title of qualification awarded	Ph.D. Domain: Electronic engineering and telecommunications				
Name and type of organization providing education and training	"Politehnica" University of Timişoara				
Dates	1980-1985				
Title of qualification awarded	Engineer				
Domain	Electronic engineering and telecommunications				
Name and type of organization providing education and training	Institute "Traian Vuia' of Timişoara				
Personal skills and competences					
Mother tongue(s)	Hungarian. Romanian.				
Other language(s)					
Self-assessment	Understanding Speaking Writing			Writing	
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	B2
French	B2	B2	B1	B1	B1
	(*) Common European	Framework of Reference	ce (CEF) level		
Organizational skills and competences	Project management experience. Management of the Electronic and Computer engineering Department 2007-2011, coordination of the Applied electronics major starting with 2000.  Management of the Intelligent Embedded Systems research center.  Management of organizing committee of 6 international conferences an workshops in 4 in Baia Mare an 2 in Debrecen, Hungary.  Managing director for "Carpathian Journal of Electronic and Computer Engineering", journal indexed in several international databases.				
Technical skills and competences	<ul> <li>Computer aided design (Multisim, OrCAD/ Capture, PSPICE, Layaout)</li> <li>Reconfigurable design (Xilinx ISE, System generator, ChipScope, Modelsim)</li> <li>Artificial neural networks implementation using reconfigurable circuits FPGA (Matlab, Simulink, Labview)</li> <li>Adaptive embedded systems (Xilixn EDK, Altera Nios II Embedded Design Suite)</li> </ul>				
Publications	- Author and coauthor of 5 books/book chapters; - Author and coauthor of more than 100 scientific papers indexed: ISI Web of Science 29, SCOPUS 33, IEEEXplore 28, INSPEC 15, EBSCO 15.				
Research projects	<ul> <li>- Manager/responsible 7 national and international projects awarded by competition and 12 research grants with companies.</li> <li>- Member of the research team in 6 national research projects and 3 international projects.</li> </ul>				
Bibliometric data	Google Academic: Citations 307, H index = 9, i10-index-9 ISI Web of Science: h-index 3, independent citation 50 Scopus: h-index 4				

Additional information			
Editor in chief of scientific journals  Member of editorial board	Carpathian Journal of Electronic and Computer Engineering 2008 – present, (ISSN 1844 – 9689) International Review of Applied Sciences and Engineering (ISSN 2062-0810), Hungary Acta Technica Napocensis Electronica-Telecomunicatii (ISSN 1221-6542)		
Membership	- IEEE - Institute of Electrical and Electronics Engineers – Industrial Electronic Society - XUP - Xilinx University Program		
Awards and distinctions	<ul> <li>AGEPI medal of Moldavian National Agency for Intellectual Property for "Group of inventions presented at International trade for inventions and practical ideas, INVEST-INVENT SIR 21".</li> <li>Best Adviser in the eleventh Edition of the Digilent Design Contest, EU Region, Cluj-Napoca Romania</li> </ul>		
Organizing of conferences and workshops	<ul> <li>Embedded Systems Design and Applications, Baia Mare, ESDA 2007, 2008, 2009, 2010</li> <li>Embedded Systems and Wireless Sensors Networks Design and Applications, Debrecen, 2011, 2012</li> </ul>		
Member of scientific or steering committees at international scientific events	<ul> <li>17th International Carpathian Control Conference - ICCC 2016, High Tatras, Tatranská Lomnica, Slovak Republic, May 29 - June 1, 2016</li> <li>Embedded World Conference, Nuremberg, Germany, 2014, 2015, 2016</li> <li>16th International Carpathian Control Conference – ICCC 2015, Szilvásvárad, Hungary May 27-30, 2015</li> <li>15th International Carpathian Control Conference – ICCC 2014, Velke Karlovice, Czech Republic</li> <li>International Conference on Hybrid Artificial Intelligence Systems – Special sesion: Metaheuristics for Combinatorial Optimization and Modelling Complex Systems, Salamanca, Spain 2013</li> <li>International Symposium for Design and Technology of Electronic Packages SIITME 2007-2014</li> <li>International Carpathian Control Conference, Kraków-Rytro, Polonia, 2012.</li> <li>International Symposium for Design and Technology of Electronic Packages SIITME 2007-present</li> <li>International conference: Building Services, Mechanical and Building Industry Days. Applied informatics. Debrecen, Hungary 2009, 2010, 2011.</li> <li>International Carpathian Control Conference ICCC'2010, Eger, Hungary.</li> <li>International Symposium on Applied Informatics and Related Areas 2010 Székesfehérvár, Hungary</li> <li>Regional Conference on Embedded and Ambient Systems - RCEAS 2007 Budapesta, Hungary</li> </ul>		
Chairman of session at national or international conferences	Chairman of Embedded Hardware I at: Regional Conference on Embedded and Ambient Systems     Budapesta 22-24 november - RCEAS 2007     Chairman of: Student Forum 2 at: The 11th International Conference on Optimization of Electrical and Electronic Equipment OPTIM 2008		
Seminars, workshops summer schools participation	<ul> <li>Xilinx University Professor Workshop, DSP Primer, Debrecen, Hungary, 2011</li> <li>Xilinx University Professor Workshop – Partial reconfiguration, Montpellier, France, 2011</li> <li>Altera Workshop, Debrecen, Hungary, 2009</li> <li>Xilinx University Professor Workshop – Embedded Design Kit (EDK), Cluj-Napoca 2008</li> <li>3rd GOSPEL School - 30 September 2007 - 5 October 2007, Crete</li> <li>Automated Test Summit '07 - National Instruments Europe, Debrecen, Hungary, 2007.</li> <li>Xilinx University Professor Workshop, DSP, 2004, Budapesta, Hungary.</li> </ul>		
International nobilities	<ul> <li>Beijing University of Post and Telecommunication, Chinaapri-may 2015 (4 weeks)</li> <li>Saxion University Enschede si Saxion University Deventer 21-28.06.2010</li> <li>University of Cambridge Nanoscience Centre - 16.05.2008</li> <li>University of Oxford, Begbroke Science Park - 17-19.05.2008</li> <li>Imperial College/London Centre for Nanotechnology (LCN) - 16.05.2008</li> <li>University of Sheffield, Kroto Research Institute and Centre for Nanoscience - 17.05.2008</li> <li>Centre Tecnologic de Telecomunicacions de Catalunya, Barcelona, 2008</li> <li>SapientaUniversity Roma, 2007</li> <li>Ecole Supérieure d'Ingénieurs en Informatique de Luminy, Université de la Méditerranée, AIX-Marseille II 1999 – 8 weeks</li> <li>Institute Universitaire de Tehnologie de Bethune, 1997 – 8 weeks</li> </ul>		
Member of the steering committee student contests and scientific events	<ul> <li>NORDTech contest 2011, 2009, 2008, Baia Mare, Romania</li> <li>International PLC programming contest, Debrecen Budapesta</li> <li>Interconnecting techniques in electronics, Piteşti, Romania, 2008</li> </ul>		

11.17.2016

## Projects

- "Mentor" in the Mentoring program, POSDRU/87/1.3/S/60891, "Lifelong learning and training for higher education teachers in the technical sciences and engineering fields DidaTec"
- Short time "Lifelong learning and training for higher education teachers in the technical sciences and engineering fields – DidaTec" POSDRU/87/1.3/S/60891
- Expert collaborator in the project "Doctorate in Schools of Excellence Quality evaluation in universities and increasing the visibility of the scientific publishing" POSDRU/5/1.5/S/2

## Research grants

- "National and international partnership development in the field of Embedded Systems, with the aim of organizing scientific meetings and drafting projects cooperatively in the EU framework program PASED" (CEEX-M3 PASED contract no.: 253/01.08.2006). Duration: 2007-2010. *Role:* director. Financing institution: Romanian Ministry of Education and Research..
- "Human activity recognition system using artificial neural networks" Joint research project with Beijing University of Posts and Telecommunications, School of Science. Duration 25.05.2015 -19.06.2015. Chinese partner: Prof. Yongjiang GUO, Ph.D. Financing institution: Balassi Institute, Campus Hungary Higher Education Staff Short Term Mobility, B2/4R/16048; 2015.
- "Future Internet Research, Services and Technology; Subproject: Internet of Things". TÁMOP-4.2.2.C-11/1/KONV-2012-0001 Hungary. Duration 2012-2014. Financing institutions: Hungarian National Development Agency. Grant awarded: 5.121.700 €. Project supported by the European Union, co-financed by the European Social Fund. Beneficiary: University of Debrecen. Research team leader: "ICT tools for smart homes and assisted living for elders".
- Smart functions of packages containing nano-structured materials in food preservation SMARTPAC, ERA-NET-MicroNanoTechnologies (MNT-ERANET) Romania 7-065/26.09.2012, Duration 2012-2015.
- Development of a biophisical system based on zeolites microorganisms vegetal species for the ecoremediation of tailings in the gold mining industry – ZEMIP Bilateral cooperation Romania – South Africa, 82/19.08.2008, Duration: 2009 – 2011.
- Development of national and international partnerships, in the field of Embedded Systems, with the purpose of organizing scientific events and preparing common projects in the EU FP7, CEEX -M3 PASED - 253/01.08.2006 CNCSIS (Romania), Duration: 2006-2008.
- Monitoring the action of the soil's microbiot for considering its use in the ecological rehabilitation of the decantation ponds. CEEX - M3 AMSREI nr.: 1822/18.09.2007 (Romania), Duration: 2007-2010.
- Microcontroller coe (S\*\*\*\*\*), Soft processor core. Contract with S.C. Electronics Engineering S.A.
   Baia Mare 2002
- Power optimizer of FPGA implemented designs, Method, Modell, Software. Contract with S.C. Electronics Engineering S.A. Baia Mare 2001

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