

INFORMAȚII PERSONALE

Corneliu Gheorghe Rusu

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LOCUL DE MUNCĂ PENTRU
CARE SE CANDIDEAZĂConducator Doctorat Electronica, Telecomunicatii si Tehnologii
Informationale

EXPERIENȚA PROFESIONALĂ

01/09/1985–15/02/1991

Inginer

IIRUC Bucuresti Sectia XX Sisteme de calcul, Cluj-Napoca (România)

Intretinere calculatoare

15/02/1991–31/08/1997

Asistent, sef de lucrari, conferentiar

Universitatea Tehnica Cluj-Napoca, Cluj-Napoca (România)

Cadru didactic universitar

01/09/1997–14/02/2000

PhD Researcher

Tampere University of Technology, Tampere (Finlanda)

Cercetator

15/02/2000–30/09/2000

Conferentiar

Universitatea Tehnica Cluj-Napoca, Cluj-Napoca (România)

Cadru didactic universitar

01/10/2000–Prezent

Profesor universitar

Universitatea Tehnica Cluj-Napoca, Cluj-Napoca (România)

Cadru didactic universitar

EDUCAȚIE ȘI FORMARE

15/09/1980–15/06/1985

Inginer Electronica si Telecomunicatii

Universitatea Tehnica Cluj-Napoca, Cluj-Napoca (România)

15/09/1986–12/06/1990

Licenta in matematica

Universitatea "Babes-Bolyai", Cluj-Napoca (România)

01/11/1990–09/03/1996

Doctor Inginer Electronica si telecomunicatii

Universitatea Tehnica, Cluj-Napoca (România)

01/09/1997–04/02/2000

Dr. Tech. (with honors) in Signal and Image Processing

Tampere University of Technology, Tampere (România)

COMPETENȚE PERSONALE

Limba(i) maternă(e) română

Alte limbi străine cunoscute

	ÎNȚELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
engleză	B2	C1	C1	B2	B2
franceză	B1	C1	B1	B2	B2

Niveluri: A1 și A2: Utilizator elementar - B1 și B2: Utilizator independent - C1 și C2: Utilizator experimentat
 Cadrul european comun de referință pentru limbi străine

Competențe de comunicare

- abilitati de comunicare dobandite in urma experientei de cadru didactic si de inginer de service
- abilitati de interactiune dobandite cu studentii prin activitatea de cadru didactic

Competențe organizaționale/manageriale

- director Scoala Doctorala Electronica si telecomunicatii - Universitatea Tehnica Cluj-Napoca (2014-prezent)
- vicepresedinte Comisia CNATDCU Electronica si telecomunicatii (februarie 2011-septembrie 2012)
- organizator conferinte si workshop-uri (SpeD 2015, RTSP 2015, SpeD 2013, SPAMEC 2011, ESDA 2009, SPSWC 2008, RTSP 2007)

Competențe dobândite la locul de muncă

- conducator de doctorat din 2003, cu 14 teze finalizate
- Senior Member IEEE
- EURASIP Local Liaison Officer for Romania
- Publicatii: 14 articole in reviste cu factor de impact ISI, 34 de articole la conferinte majore, 16 carti sau monografii, 21 de articole in reviste cu recenzori, 90 de lucrari publicate la conferinte sau workshop-uri cu recenzori

Competență digitală

AUTOEVALUARE				
Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
Utilizator experimentat	Utilizator experimentat	Utilizator independent	Utilizator independent	Utilizator experimentat

Competențele digitale - Grilă de auto-evaluare

1. Lista lucrarilor ISI

1	Adrian Lodin, Corneliu Rusu	"Retrieval of Iris Dominant Color using Intra-palette Color Merging", IEEE ISSCS 2011 , Iasi, Romania, pp. 213-216.
2	Lucian Iozan, Jussi Collin, Jarmo Takala, Corneliu Rusu	"Improved Indoor Navigation System Based on MEMS Technology", IEEE ISSCS 2011 , Iasi, Romania, pp. 57-60.
3	Mihai Munteanu, Corneliu Rusu, D. Moga, R. Moga, G. Tont	"EMG Signals Case Study: A Time and Frequency Domain Analysis", Proc. MedTech 2011, Cluj-Napoca, Romania, pp.202-205.
4	Marius Vasile Ghiurcau, Corneliu Rusu, Jaakko Astola,	"A Study of the Effect of Emotional State upon Text-Independent Speaker Identification", IEEE ICASSP 2011: Prague, 2011, pp. 4944-4947.
5	Lucian Ioan Iozan, Martti Kirkko-Jaakkola, Jussi Collin, Jarmo Takala, Corneliu Rusu	"Using a MEMS gyroscope to measure the Earth's rotation for gyrocompassing applications", Measurement Science and Technology, vol. 23, No. 2, 2012, pp. 2-9.
6	Liviu-Teodor Chira, Jean-Marc Girault, Corneliu Rusu	"Into the ultrasound deconvolution using CLEAN algorithm - statistical analysis of scatters detection", IEEE ISETC 2012 , Timisoara, Romania, pp. 299-302.
7	Corneliu Rusu, Anibal R Figueiras-Vidal, Colin F. N. Cowan	"Cost Function Adaptation Revisited", IEEE ICSP 2012, pp. 123-126.
8	Marius Vasile Ghiurcau, Corneliu Rusu, Radu Ciprian Bilcu, Jaakko Astola	"Audio based solutions for detecting intruders in wild areas", Signal Processing, vol. 92, No. 3, 2012, pp. 829-840.
9	Corneliu Rusu, Jaakko Astola	"About Positive Trigonometric Polynomials and 1-D Discrete Phase Retrieval Problem", Proc. EUSIPCO 2012, pp. 1169-1173.
10	Alexandru Lodin, Lacrimioara Grama, Corneliu Rusu, Jarmo Takala	"Systematic Method to Convert of Analog Filters to Digital Filters", IEEE SIPS 2013 , pp. 189-194.
11	Liviu-Teodor Chira, Corneliu Rusu, Jean-Marc Girault	"Speckle noise removal in ultrasound medical imaging using envelope based time domain deconvolution", IEEE ISSCS 2013 , Iasi, Romania.
12	Corneliu Rusu, Marius Vasile Ghiurcau, Radu Bilcu, Marius Sirbu, Jaakko Astola	"On the Design of an Acoustic Based Wildlife Intruder Detection System", IEEE SpeD 2013 , Cluj-Napoca, Romania.
13	Roxana-Gabriela Rosu, Corneliu Rusu	"A Sparsogram Implementation for Wildlife Intruder Detection", IEEE ISSCS 2013 , Iasi, Romania.
14	Simina Emerich, Eugen Lupu, Corneliu Rusu	"A new set of features for a bimodal system based on on-line signature and speech", Digital Signal Processing, vol. 23, No. 3, 2013, pp. 928-940.

15	Lacrimioara Grama, Alexandru Lodin, Corneliu Rusu, Jarmo Takala	"Method to Convert Analog Filters to Digital Filters", IEEE ISPA 2013, pp. 451-456.
16	Corneliu Rusu, Colin F. N. Cowan	"On Some Performances of the Exponentiated Convex Variable Step-Size (ECVSS) Algorithm", IEEE ISPA 2013, pp. 353-358.
17	Corneliu Rusu	"A Sparsogram Procedure for Wildlife Intruder Detection", IEEE ISCCSP 2014, Athens, Greece, pp. 392-395.

2. Lista lucrarilor BDI

1	Lucian Ioan Iozan, Jussi Collin, Jarmo Takala, Corneliu Rusu	"Inertial Indoor Navigation System", Acta Technica Napocensis - Electronics and Telecommunications, 2011, pp. 47-50.
2	Marius Vasile Ghiurcau, Corneliu Rusu, Jaakko Astola	"Speaker Recognition in an Emotional Environment", Proc. SPAMEC 2011, pp. 81-84.
3	Lacrimioara Grama, Corneliu Rusu	"Hilbert transform by divide and-conquer piecewise linear approximation", Proc. ECCTD 2011, pp. 373-376.
4	Liviu-Teodor Chira, Corneliu Rusu, Jean-Marc Girault	"Envelope based nonlinear blind deconvolution approach for ultrasound imaging", Carpathian Journal of Electronic and Computer Engineering, 2012, pp. 39-43.
5	Liviu-Teodor Chira, Corneliu Rusu, Clovis Tauber, Jean-Marc Girault	"Blind Deconvolution for Ultrasound Sequences Using a Noninverse Greedy Algorithm", International Journal of Biomedical Imaging, Volume 2013, Article ID 496067
6	M Munteanu, P Bechet, C Rusu, DD Micu, RA Munteanu, R Moga, C Amza	Application of Virtual Instrumentation for Transmitting and Processing ECG Signals, Proc. MedTech 2014, Cluj-Napoca, Romania, pp. 215-218.
7	Paul Baru, Marius Roman, Corneliu Rusu	"Risk analysis and measurement uncertainty in the manufacturing process of medical devices", IFMBE Proceedings 2014, 41, pp. 1567-1570.
8	Marius Popescu, Lacrimioara Grama, Corneliu Rusu, Marius Sirbu	"Communication Protocol for Wireless Sensor Networks for Energy Consumption Optimization", Proc. WCSIT 2014.
9	Dalia Danilescu, Corneliu Rusu	Morphological Image Processing for Road Anomalies Detection Using 2D Images and Video Data, Acta Electrotehnica, 56 (3), 2015.
10	Lăcrimioara Grama, C. Rusu	Averaged Binary Sparsogram for Wildlife Intruder Detection, Acta Technica Napocensis, 53(2), pp. 42-47.
11	Dalia Danilescu, A. Lodin, Lăcrimioara Grama, C. Rusu	"Road anomalies detection using basic morphological algorithms," Carpathian Journal of Electronic and Computer Engineering, vol. 8, no. 2, pp. 15-18, 2015, ISSN: 1844-9689

12	Lăcrimioara Grama, C. Rusu	"Spectrograms, Sparsograms and Spectral Signatures for Wildlife Intruder Detection", in Proc. of SpeD 2015: 8th Conference on Speech Technology and Human-Computer Dialogue, 14-17 October 2015, Bucharest, Romania
13	Lăcrimioara Grama, C. Rusu, G. Oltean, Laura Ivanciu	„Quantization Effects on Audio Signals for Detecting Intruders in Wild Areas Using TESPAS S-Matrix and Artificial Neural Networks,” in Proc. of SpeD 2015: 8th Conference on Speech Technology and Human-Computer Dialogue, 14-17 October 2015, Bucharest, Romania
14	G. Oltean, Lăcrimioara Grama, Laura Ivanciu, C. Rusu	„Alarming Events Detection Based on Audio Signals Recognition,” in Proc. of SpeD 2015: 8th Conference on Speech Technology and Human-Computer Dialogue, 14-17 October 2015, Bucharest, Romania
15	Corneliu Rusu, Jaakko Astola	The extended one-dimensional discrete phase retrieval problem, Proc. ISSCS 2015; Iasi; Romania, pp. 1-4.
16	Lăcrimioara Grama, C. Rusu	"About quantization of audio signals for wildlife intruder detection systems," 22nd European Conference on Circuit Theory and Design (ECCTD), pp. 1-4, Aug. 24-26, 2015, Trondheim, Norway, ISBN: 978-1-4799-9877-7

3. Lista contractelor de cercetare

1	Reconstituirea adaptivă a semnalelor pentru eşantionarea comprimată a matricelor de senzori acustici – PN_ID_162_2008	2008-2011
2	Workshop SPAMEC 2011 – ANCS 144M/8.08.2011	2011

4. Lista cartilor publicate in edituri international

5. Lista tezelor finalizate

- **Simina-Maria MOLDOVAN (EMERICH)** - "APPLICATION OF B-SPLINE WAVELET ANALYSIS IN BIOMETRICS" - February 4, 2011
- **Marius-Vasile GHIURCĂU** - "SOUND CLASSIFICATION IN FORENSIC SCENARIOS" - September 16, 2011
- **Lucian-Ioan IOZAN** - "RESEARCHES REGARDING PERSONS AND OBJECTS LOCALIZATION USING SENSORS" - October

10, 2011

- **Adrian-Gabriel LODIN** - "CONTRIBUTIONS TO IRIS IMAGE ANALYSIS FOR MEDICAL APPLICATIONS" - September 28, 2012
- **Nicolae-Cristian PAMPU**- "NEURONAL SIGNAL ANALYSIS INVOLVED IN SENSORIAL PROCESSING" - November 24, 2013
- **Paul-Emanuel BÂRU** - "RESEARCH IN RISK ANALYSIS FOR MEDICAL ELECTRONICS" - April 12, 2014
- **Flaviu-Ilie BOB**- "SOUND RECORDING AND PROCESSING FOR DETERMINING SOURCE AND SIGNAL PARAMETERS" - April 12, 2014
- **In cotutela: Liviu-Teodor CHIRA** - "SPARSE BLIND DECONVOLUTION IN ULTRASOUND IMAGING USING AN ADAPTIVE CLEAN ALGORITHM" - October 17, 2013