Victor COJOCARU

(+373) 69179080

(+373) 22739063

Email address: vikcojocaru@gmail.com

Address: Florilor 8/2 ap 80, md2068 Chisinau (Moldova)

WORK EXPERIENCE

Deputy Director for Research

Ghitu Institute of Electronic Engineering and Nanotechnologies [22/07/2020]

City: Chisinau
Country: Moldova

Leading Researcher of the Medical Electronic Equipment Laboratory

Ghitu Institute of Electronic Engineering and Nanotechnologies [01/11/2011 – 22/07/2020]

Address: Chisinau (Moldova)
City: Chisinau

Medical electronic equipment development, dynamic and chaotic systems, nanosensors, intelligent systems

Associate Professor Sub-contractor

Moldova Technical University, Chisinau, [01/11/2011 – Current]

Address: Chisinau (Moldova)

Teaches: Modeling of electronic components

Sub-contractor

Chief of the Medical Electronic Equipment Laboratory

Ghitu Institute of Electronic Engineering and Nanotechnologies [01/04/2006 – 09/2008]

Address: Chisinau (Moldova)

Medical electronic equipment development

Analog and digital IC development

ASIC Art, Iasi, Romania [01/04/2006 – 31/12/2007]

Address: Iasi (Romania)

Front-end and back-end IC design, logic CMOS ICs, DRC, LVS

Sub-contractor

Analog and digital IC development
MEZON – Special Design & Technology Office [01/01/2000 – 31/12/2006]

Address: Chisinau (Moldova)

Front-end and back-end IC design, logic CMOS ICs, DRC, LVS

Sub-contractor

Electronic circuits design and project management
TOPAZ plant [01/05/2002 – 31/03/2006]

Address: Chisinau (Moldova)

Programming engineer

Computer system development
DAAC Systems company [01/01/2000 – 04/2002]

Address: Chisinau (Moldova)

Computer system development team

EDUCATION AND TRAINING

Ph. D. (doctor)
Technical University "Gh. Asachi" of Iasi, Romania [01/10/2008 – 09/2011]

Address: Iasi (Romania)

R & D on ultrasonic detectors and chaotic circuits

Physicist - engineer
National Research University of Electronic Technology [01/09/1988 – 01/03/1995]

Address: Moscow (Russia)

Applied electronics, microelectronics, nanotechnologies

LANGUAGE SKILLS

Mother tongue(s):

Romanian

Other language(s):

Russian

LISTENING C2 **READING** C2 **WRITING** C2

SPOKEN PRODUCTION C2 **SPOKEN INTERACTION** C2

English

LISTENING B1 **READING** B1 **WRITING** B1

SPOKEN PRODUCTION B1 **SPOKEN INTERACTION** B1

ORGANISATIONAL SKILLS

Organisational skills

Leadership

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

I born and worked in the Rep. of Moldova, a country where a mix of Romanian and Russian culture resulted after more than two centuries of cohabitation.

I studied in Russia, I worked some time in an Israeli company located in Romania (Iasi) and I did some research in Riga (Letonia). In all these situations I had a good, friendly cooperation with locals.

JOB-RELATED SKILLS

Job-related skills

I am a disciplined and hardworking person

PUBLICATIONS

COJOCARU V. P. Surface Engineering and Applied Electrochemistry, "Characterization of Interdigital Electrode Sensors" March 2019, Volume 55, Issue 2, pp 225–231, First Online: 03 May 2019, Impact Factor 0.289

[2017]

COJOCARU; V., FEDORISIN; T., NIGULEANU; E., GALUS, R., "Intelligent device for controlled therapeutic hypothermia", 2018 10th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Pages: 1 – 6 EEE Conferences, Date of Conference: 28-30 June 2018, Conference Location: Iasi, Romania, Romania, Date Added to IEEE Xplore: 04 April 2019, INSPEC Accession Number: 18565985, DOI: 10.1109/ECAI.2018.8679091 Publisher: IEEE

[2019]

TEODORESCU, H.-N., COJOCARU, V., KATASHEV, A., "Multi-Criterial Assessment of the Uniformity of the Electrical Potential of Micro-Films (Conference Paper)" 24th International Conference on Applied Electronics, AE 2019; Pilsen; Czech Republic; 10 September 2019 through 11 September 2019; Category numberCFP1969A-PRT; Code 152830

[2019]

COJOCARU, V.P.; SIDORENKO, A.; GROPPA, S.; FEDORISIN, T.; GALUS, R..; NIGULEANU, E. Device for controlled hypothermia, A VI-a Conferinţă Internaţională "Telecomunicaţii, Electronică şi Informatică" ICTEI 2018, Chisinau, Republic of Moldova, 2018 pp. 372-375

[2018]

PLETEA, I.M.; ȘONTEA, V.; COJOCARU, V.P. Impactul conexiunilor verticale asupra ariei in integrarea 3D, A VI-a Conferinţă Internaţională "Telecomunicaţii, Electronică şi Informatică" ICTEI 2018, Chisinau, Republic of Moldova, 2018 pp. 375-378

[2018]

COJOCARU, V.P.; VRABII, D. Simulations of the effect of the cooling elements' temperature on the hypothermia efficiency, The 6th IEEE International Conference on E-Health and Bioengineering - EHB 2017, pp. 13

[2017]

TEODORESCU, H.N.; COJOCARU, V.P. Building Inexpensive Sensors based on Chaos with Good Resolution and Precision, The 5th International Symposium On Electrical And Electronics Engineering 20 - 22 October 2017, Galati, Romania

[2017]

COJOCARU, V.P.; SIDORENKO, A. S.; VRABII, D. 2D/3D Heat transport maps of biological tissue in therapeutic hypothermia Romanian Journal of Information Science and Technology Volume 19, Numbers 1-2, 2016, pp188–196 (IF 0.34)

[2016]

COJOCARU, V.P.; TUGUI, P.S.; FEDORISIN, T.; POSTICA, I.V.; GALUS, R. Hypothermia Device Used in Medicine, 3rd International Conference on Nanotechnologies and Biomedical Engineering, Springer Singapore 2016, p.365-369

[2016]

GALATUS, R.; MOGA, D.; COJOCARU, V.; CENNAMO, N.; ZENI, L. Fuzzy Control System Based On Spr-Pof Fiber Sensor For Chlorine Monitoring In Water, 16th International Multidisciplinary Scientific Geoconference Sgem2016 Conference Proceedings, ISBN 978-619- 7105-59-9 / ISSN 1314-2704, June 28 - July 6, 2016, Book2 Vol. 2, pp 895-900

[2016]

COJOCARU, V.P. Signals Evaluation of a Chaotic Generator-based Sensor for Environment Conductometric Measurements, The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015, pp 141

[2015]

COJOCARU, V. Chaotic sensor with conductivity titration for water quality measurements, A V-a Conferinţă Internaţională "Telecomunicaţii, Electronică şi Informatică" ICTEI 2015 Chisinau, Republic of Moldova, 2015 pp .444-447

[2015]

COJOCARU, V.; SIDORENKO, A.; GROPPA, S.; NICA, IU. Device for controlled hypothermia on fuzzy logic algorithms, Meeting Security Challenges Through Data Analytics and Decision Suppor, Aghveran, Armenia, 1-5 June, 2015

[2015]

COJOCARU, V.P.; TUGUI, P.S.; FEDORISIN, T.; POSTICA, I.V.; GALUS, R. Dynamic method of brain cooling, A V-a Conferinţă Internaţională "Telecomunicaţii, Electronică şi Informatică" ICTEI 2015, Chisinau, Republic of Moldova, 2015 pp. 447-450

[2015]

COJOCARU, V.P.; VRABII, D. Fuzzy logic algorithm for use in controlled hypothermia, The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015, pp 58

[2015]

COJOCARU, V.P.; VRABII, D.; RUSU, E.; CURMEI, N. Modelling Potential Distribution in ZnO with Different Thicknesses at GHz Frequencies, 3rd International Conference on Nanotechnologies and Biomedical Engineering,, 2015, pp. 428-431

[2015]

COJOCARU, V. Sensors Based on Chaotic Systems for Environmental Monitoring. Improving Disaster Resilience and Mitigation - IT Means and Tools. Proceedings of the NATO Advanced Research. Ed. Springer 2014, pp 323-334. ISBN 978-94-017-9138-0 (PB)

[2014]

HN TEODORESCU, M HULEA, V COJOCARU Characterizing the attractors of chaotic systems by a direct measurement method In System Theory, Control and Computing (ICSTCC), 2014 18th International Conference IEEE p.494-500 (ISI)

[2014]

TEODORESCU, H.-N.; COJOCARU, V. Experimental investigation of the reliability of reception of ultrasound signals in fire conditions. Fire Safety Journal, 2014, Vol. 66, p. 25-34 (IF: 1.222)

[2014]

COJOCARU, V.; MARDARI, V. Fuzzy controlled system for hypothermic brain therapy. Proceedings of the Romanian Academy, Series A, Volume 15, Number 4/2014, pp. 396–402

[2014]

COJOCARU, V., MARDARI, V., NICA, Iu. Device for hypothermic therapy. In: 2nd International Conference on Nanotechnologies and Biomedical Engineering. German-Moldovan Workshop on Novel Nanomaterials for Electronic, Photonic and Biomedical Applications, Chisinau, Republic of Moldova, April 18-20, 2013. Proceedings p. 583-588

[2013]

GHIMPU, L.; COJOCARU, V.; SOROCEANU, M.; SACARESCU, L.; KATASHEV, A.; HARABAGIU, V.; TIGINYANU, I. Study of piezoelectrycity in structures based on nanofibrous ZnO layers and polysilane. In: Proceedings of International Semiconductor Conference (CAS), 15- 17 Oct. 2012. Vol. 2, p. 295 – 298.

[2012]

COJOCARU, V.; TEODORESCU, H.-N. Simple chaos generator with robust operation. In: The 4th International Conferenceon Telecomunications, Electronics and Informatics, Proceedings, Chisinau, May 17-20, 2012. - Ch.: UTM, 2012, Vol. II, p.39.

[2012]

TEODORESCU, H.N.; COJOCARU V. Biomimetic chaotic sensors for water salinity measurements and conductve titrimetr. In: International Conference on Human-Machine Systems, Cyborgs and Enhancing Devices HUMASCEND, Iasi, Romania, June 14-16, 2012, p. 156-159

TEODORESCU, H.N.; COJOCARU, V. Biomimetic chaotic sensors for water salinity measurements, simulator and aplication. In: Proceedings of the Third International Conference on Emerging Security Technologies (EST-2012), Lisbon, Portugal, September 5-7, 2012, p. 182 – 185. (ISI)

[2012]

TEODORESCU, H.N.; COJOCARU, V. Complex signal generators based on capacitors and on piezoelectric loads Chaos Theory: Modeling, Simulation and Applications World Scientific p.423- 430

[2012]

. TEODORESCU, H.-N.; COJOCARU, V. Three-transistor modulator-amplifier circuit works with swept-control frequencies. Electronic Design News April 22, 2010, issue of Electronic Design, EDN, pp 72-74. (ISI)

[2010]

COJOCARU, V.; TEODORESCU, H.-N. Design of a simple mixer for an ultrasound echo-locator for robotics. Buletinul Institutului Politehnic din Iasi, Tomul LVI(LX), Fasc.1, Sectia Electrotehnica. Energetica. Electronica, 2010, p. 55-67.

[2010]

COJOCARU, V.; KATASHEV, A.; TEODORESCU, H. N. Analysis of the behavior of PVDF layers deposited under various conditions. In: International Conference on Nanotechnologies and Biomedical Engineering. German-Moldovan Workshop on Novel Nanomaterials for Electronic, Photonic and Biomedical Applications. Chisinau, Moldova, July 7-8, 2011. Proceedings, p. 80-82.

[2011]

COJOCARU, V.; TEODORESCU, H.-N. Măsurători de directivitate asupra unui cap bio-sonar. In: Proceedings of the 3rd International Conference on Telecommunications, Electronics and Informatics ICTEI 2010, Chişinău, 20-23 mai 2010, Volume II, pag. 312-317.

[2010]