INFORMAŢII PERSONALE

Bărbulescu Lucian-Florentin

lucian.barbulescu@edu.ucv.ro

Sexul masculin | Data naşterii 28/11/1979 | Naţionalitatea român

EXPERIENŢA PROFESIONALĂ

01/10/2023- prezent

Conferențiar

Universitatea din Craiova, str. A.I.Cuza nr.13, 200585 Craiova, Romania

- Activitati didactice şi de cercetare în domeniul Calculatoare şi Tehnologia Informaţiei
- Realizare Orar DCTI

Tipul sau sectorul de activitate Învăţământ superior/ Cercetare

01/10/2014- 30/09/2023

Șef Lucrări

Universitatea din Craiova, str. A.I.Cuza nr.13, 200585 Craiova, Romania

- Activitati didactice şi de cercetare în domeniul Calculatoare şi Tehnologia Informaţiei
- Realizare Orar DCTI

Tipul sau sectorul de activitate Învăţământ superior/ Cercetare

01/03/2007- 30/09/2014

Asistent Universitar

Universitatea din Craiova, str. A.I.Cuza nr.13, 200585 Craiova, Romania

- Activitati didactice şi de cercetare în domeniul Calculatoare şi Tehnologia Informaţiei

Tipul sau sectorul de activitate Învăţământ superior/ Cercetare

01/03/2005 – 28/02/2007

Preparator Universitar

Universitatea din Craiova, str. A.I.Cuza nr.13, 200585 Craiova, Romania

- Activitati didactice şi de cercetare în domeniul Calculatoare şi Tehnologia Informaţiei

Tipul sau sectorul de activitate Învăţământ superior/ Cercetare

01/10/2004 – 28/02/2005

Preparator Suplinitor

Universitatea din Craiova, str. A.I.Cuza nr.13, 200585 Craiova, Romania

- Activitati didactice şi de cercetare în domeniul Calculatoare şi Tehnologia Informaţiei

Tipul sau sectorul de activitate Învăţământ superior/ Cercetare

10/12/2004 – prezent

Inginer Sistem Informatic

SC CS Romania SA, str. Pacii, nr. 29, Craiova, cod 200692, Web: www.c-s.ro

- Activitati de cercetare, proiectare, realizare si testare de produse software

Tipul sau sectorul de activitate Industrial

01/02/2002 – 30/09/2004

Programator

SC XTREME SOFTWARE SRL, Craiova

- Activitati de proiectare, realizare si testare de produse software

Tipul sau sectorul de activitate Industrial

EDUCAŢIE ŞI FORMARE

01/10/2007 – 18/04/2013

Doctor in Ingineria sistemelor

Universitatea „Dunărea de Jos" Galaţi, România

- Titlu teză: Simularea în timp real a comportamentului echipamentelor pentru exploatarea sistemelor critice, Domeniul: Ingineria sistemelor, Universitatea „Dunărea de Jos" din Galați, Coordonator științific: prof. dr. ing. Mînzu Viorel-Nicolae, Susținere publică: 19.04.2013, Diplomă de doctor: seria H nr. 0011412, Ordinul Ministrului Educației, Cercetării, Tineretului și Sportului nr.3930/20.06.2013

01/10/2003 – 30/06/2005

Master – Inginerie Software

Universitatea din Craiova, România

Medie dizertatie: 10; Medie Absolvire: 9.91 (Anul I: 10, Anul II: 9.83)

Metode formale in Ingineria software, Baze de date multimedia, Complexitatea calculului, Procesare de imagini, Topici avansate in proiectarea aplicatiilor Internet, Metrici software, Sisteme grafice complexe, Ingineria sistemelor informatice critice

01/10/1998 – 30/06/2003

Inginer, specializarea Calculatoare (cu predare in limba engleza)

Universitatea din Craiova, România

Medie licenta: 10; Medie Absolvire: 8.78 (Anul I: 9, Anul II: 8.82, Anul III: 7.84, Anul IV: 8.92: Anul V: 9.33)

Mathematics, physics, numerical calculous, mechanics, computer programming, assembly language programming, object oriented programming, logical desgn of digital computers, computer architecture, computer organization, computer structure, real time computing systems, operating systems, databases design, parallel computiers

COMPETENTE PERSONALE

Limba maternă: Română

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversaţie	Discurs oral	
Engleză	C1	C1	C1	C1	C1
Franceză	B2	B2	B1	B1	B1

Niveluri: A1/2: Utilizator elementar - B1/2: Utilizator independent - C1/2: Utilizator experimentat
Cadrul european comun de referinţă pentru limbi străine

Competenţe de comunicare

- Abilităţi de lucru în echipă; adaptabilitate la medii de lucru multiculturale şi interculturale; abilităţi de comunicare foarte bune dovedite de participarea cu succes la dezvoltarea de proiecte de cercetare, naţionale şi internaţionale

Competenţe organizaţionale/manageriale

- Spirit de conducere (leadership) şi capacitate de formare şi mobilizare a echipelor de proiect

Alte competente si aptitudini

- Formator in cadrul - Proiect POSDRU/87/1.3/S/62426 "Instruirea profesorilor de informatică pe tehnologia .Net", 2011-2013, cofinantat din Fondul Social European, prin Programul Operational Sectorial Dezvoltarea Resurselor Umane 2007 – 2013, Coordonator proiect: Universitatea Politehnică din București

Competenţe informatice

- Experienta recunoscuta international in devoltarea de produse software in Java (Sun Certified Java Programmer din Decembrie 2005)
- Proiectarea si dezvoltarea in cadrul CS Romania a numeroare produse software pentru firme sau organizatii importante, cum ar fi: Convera Corporation, Faiveley Transport, Thales, Agentia Spatiala Europeana.

Permis de conducere

Categoria B

INFORMATII SUPLIMENTARE

Cărți

- Lucian-Florentin Barbulescu, Introducere în Ingineria Sistemelor Informatice Critice, Ed. SITECH, Craiova, 135 pagini, ISBN: 978-606-11-8394-4, 2023

Articole

- Lucian-Florentin Barbulescu, Dan-Ovidiu Andrei, Marin Lungu, Decision trees in data mining, Analele Universitatii din Oradea, Fascicola Electrotehnica - SECTIUNEA STIINTA CALCULATOARELOR SI SISTEME DE CONTROL, Pp. 21-25, ISSN 1223-2106, Revista CNCSIS, cat. B, 2007
- Dan-Ovidiu Andrei, Marin Lungu, Lucian-Florentin Barbulescu, Working with Dicom standard, Analele Universitatii din Oradea, Fascicola Electrotehnica - SECTIUNEA STIINTA CALCULATOARELOR SI SISTEME DE CONTROL, Pp. 11-15, ISSN 1223-2106, Revista CNCSIS, cat. B, 2007
- Marin Lungu, Lucian-Florentin Barbulescu, Dan-Ovidiu Andrei, A project management and collaboration portal tool, Analele Universitatii din Oradea, Fascicola Electrotehnica - SECTIUNEA STIINTA CALCULATOARELOR SI SISTEME DE CONTROL, Pp. 55-59, ISSN 1223-2106, Revista CNCSIS, cat. B, 2007
- Elena Doicaru, Lucian - Florentin Bărbulescu, Claudius Dan, SSAF – A Tool for Active Filter Synthesis, European Computing Conference, Proceedings, Volume 2, Pp. 621-627, ISSN: 1876-1100, ISBN: 978-0-387-84818-1, 2007, Printed by Springer in 2009
- Ileana Hamburg, Oleg Cernian, Dan Mancas, Lucian - Florentin Barbulescu, Nicolae Cismaru, Collaborative distance learning within laboratories by using virtual environment, Sintes 11, International Symposium on Systems Theory. Craiova, Romania: Univ. of Craiova, Automation, Computers & Electronics Faculty. Vol. 2: Software engineering, computers engineering, electronics, p. 413-416, 2003
- Marin Lungu, Andrei Dan - Ovidiu, Lucian - Florentin Barbulescu, SOAP - A secure and reliable client-server communication framework, SINTES 12, The International Symposium on System Theory, Automation, Robotics, Computers, Informatics, Electronics and Instrumentation. Craiova, Romania: Univ. of Craiova, Automation, Computers & Electronics Faculty. 2005
- Marin Lungu, Andrei Dan - Ovidiu, Gabriel Toma-Tumbar, Lucian - Florentin Barbulescu, Distributed databases with access mechanisms, security, consistency and redundancy, SINTES 12, The International Symposium on System Theory, Automation, Robotics, Computers, Informatics, Electronics and Instrumentation. Craiova, Romania: Univ. of Craiova, Automation, Computers & Electronics Faculty. 2005
- Marin Lungu, Andrei Dan - Ovidiu, Gabriel Toma-Tumbar, Lucian - Florentin Barbulescu, E-learning system: a services oriented architecture approach, SINTES 12, The International Symposium on System Theory, Automation, Robotics, Computers, Informatics, Electronics and Instrumentation. Craiova, Romania: Univ. of Craiova, Automation, Computers & Electronics Faculty. 2005
- Ionut Resceanu, Lucian – Florentin Barbulescu, Distributed modern e-learning systems, Innovation in Education for Electrical and Information Engineering, Proceedings, Pp. 260-267, ISBN 973-742-350-X, 978-973-742-350-4, 2006
- Marin Lungu, Lucian-Florentin Barbulescu, Dan-Ovidiu Andrei, Organizing the IT infrastructure of an international scientific conference event as a service-oriented architecture, International Carpathian Control Conference ICCC, Sinaia, Romania: University of Craiova, May 25-28, 2008, ISBN 978-973-746-897-0, 2008
- Lucian-Florentin Bărbulescu, Marin Lungu, Dan-Ovidiu Andrei, Distributed system for industrial

simulation, Analele Universității din Craiova, Seria Automatica, Calculatoare, Electronica și Mecatronica, Volumul 6(33), issue. 1, pp. 1-5, ISSN: 1841-0626, Revista CNCSIS, cat. B+, 2009

- Lucian-Florentin Bărbulescu, Functional analysis of a communication framework used in a modular simulator, 14th International Conference on System Theory and Control, Proceedings, Pp. 62-66, Sinaia, Romania, 17-19 October 2010, ISSN: 2068-046, 2010
- Lucian-Florentin Bărbulescu, An algorithm designed to determine the optimum number of communication channels in a modular simulator, Buletinul Institutului Politehnic din Iaşi, Automatic Control and Computer Science Section, Nr. LVII (LXI), Fasc. 3, 2011, pag. 21-32, cat. B+
- Lucian-Florentin Bărbulescu, The abstract elementary simulator – the base component of a modular simulator, 16th International Conference on System Theory, Control and Computing, Proceedings, Sinaia, Romania, 12-14 October 2012, ISBN: 978-606-834-848-3, IEEE Catalog Number CFP1236P-CDR, 2012
- Lucian-Florentin Bărbulescu, Viorel Mînzu, Designing a modular simulator for a navigation lock, The Annals of « Dunarea de Jos » University of Galati, Fascicle III, Electrotechnics, Electronics, Automatic Control, Informatics, ISSN 1221-454X, 2012, VOL. 35, NO. 1
- Lucian-Florentin Bărbulescu, Viorel Mînzu, Design and implementation of an elementary simulator for the rotating gates of a navigation lock, 17th International Conference on System Theory, Control and Computing, Proceedings, Sinaia, Romania, 11-13 October 2013.
- Dumitrescu, CI., Ciobirca, C., Popa, RT., Dumitrescu, D., Tambura, CG., Ciobirca, DM., Stavaru, R., Tiuca, MF., Maces, S., Barbulescu, LF., Popa, LD., Cazacu, SM., Preoperative Planning for Superior Mesenteric Artery Aneurysm, Applied Sciences. 2021; 11(21):10311, eISSN: 2076-3417, DOI: 10.3390/app112110311, WOS: 000718963700001 [Jurnal ISI Q2]
- Barbulescu, LF, Popa, DL, Popa, RT, Patrascu, C., A simple files backup component for a Flight Dynamics System, 2022 23rd International Carpathian Control Conference (ICCC), Sinaia, Romania, ISBN: 978-1-6654-6636-3, May, 29 – June 1 2022, DOI: 10.1109/ICCC54292.2022.9805977, pp. 25-30, WOS: 000925203600005 [ISI Proc]
- Popa, DL., Popa, RT., Barbulescu, LF., Ivanescu, RC.,Mocanu, ML., Segmentation of Different Human Organs on 3D Computer Tomography and Magnetic Resonance Imaging using an Open Source 3D U-Net Framework, 2022 23rd International Carpathian Control Conference (ICCC), Sinaia, Romania, ISBN: 978-1-6654-6636-3, May, 29 – June 1 2022, DOI: 10.1109/ICCC54292.2022.9805911, pp. 54-57, WOS: 000925203600010 [ISI Proc]
- Popa, DL., Mocanu, ML., Popa, RT., Barbulescu, LF., Barbulescu, LN., Comparing two different types of deep neural networks to improve accuracy in ECG intepretation, 2021 25th International Conference on System Theory, Control and Computing (ICSTCC), Iasi, Romania, ISBN: 978-1-6654-1496-8, October, 20-23 2021, DOI: 10.1109/ICSTCC52150.2021.9607110, pp. 260-265, WOS:000859487900043
- Popa, DL., Mocanu, ML., Popa, RT., Barbulescu, LF., Barbulescu, LN., Ciobirca, C., Augmented and mixed reality for collaborative cardiac planning using 3D and 4D medical imaging data, 2020 24th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, ISBN: 978-1-7281-9809-5, October, 8-10 2020, DOI: 10.1109/ICSTCC50638.2020.9259677, pp. 384-389, WOS:000646582900065
- Mateiasi, C., Bărbulescu, L.F. and Popa L.D., Space Debries Decay Estimation Software using Open-Source Libraries, 2019 23rd International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, ISBN: 978-1-7281-0700-4, 9-11 October 2019, DOI: 10.1109/ICSTCC.2019.8885969, pp. 598-602, WOS:000590181100101
- Barbulescu, LF; Butu, AF ; Marian, M; Stinga, F, Estimation of the attitude of a CubeSat under environmental torques, 2017 21st International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, ISBN: 978-1-5386-3843-9, 19-21 October 2017, DOI: 10.1109/ICSTCC.2017.8107049, pp. 291-296, WOS:000427419900047
- Marian, M., Stîngă, F., Kese, V., Bărbulescu, LF., A case study in real time implementations of a predictive control algorithm, 2017 18th International Carpathian Control Conference (ICCC), Sinaia, Romania, ISBN: 978-1-5090-4863-2, 28-31 May 2017, DOI: 10.1109/CarpathianCC.2017.7970389, pp. 156-161, WOS:000426954400030
- Stîngă, F., Marian, M., Kese, V., Bărbulescu, LF., Petre, E., An Embedded System Implementation Of A Predictive Algorithm For A Bioprocess, 31st European Conference on Modelling and Simulation, Budapest, Hungary, ISBN: 978-0-9932440-4-9, May 23 –26, 2017, DOI: 10.7148/2017-0409., pp. 409-415, WOS:000404420000062
- Buţu, FA., Lungu, R., Bărbulescu, LF., Adaptive flight control for a launch vehicle based on the concept of dynamic inversion, 2016 20th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, ISBN: 978-1-5090-2721-7, 13-15 October 2016, DOI: 10.1109/ICSTCC.2016.7790768, pp. 812-817, WOS:000391609900138
- Barbulescu, LF., The GUI component of DistriSimJ, 2016 International Symposium on INnovations in Intelligent SysTems and Applications (INISTA), Sinaia, Romania, ISBN: 978-1-4673-9911-1, 2-5 August 2016, DOI: 10.1109/INISTA.2016.7571843

- Barbulescu, L.F.; Bazavan, P.C., "A software method used to control the degree in a polynomial computation of Hansen coefficients," System Theory, Control and Computing (ICSTCC), 2014 18th International Conference , pp.749-754, 17-19 Oct. 2014, Sinaia, Romania, DOI: 10.1109/ICSTCC.2014.6982508 , WOS:000704338900123
- Băzăvan P.C., Bărbulescu L.F., Cefola P., " On the computation of Hansen", Proc. The 16th International Symposium on Symbolic and Numerical Algorithms for Scientific Computing, Sept. 22-25, 2014, Timisoara, Romania, pp. 117-121, ISBN 978-1-4799-8448-0, WOS: 000366596600017 [ISI Proc.]
- Bărbulescu L.F., Băzăvan P.C., Dabu C.M. " Distributed system for satellite trajectory estimation", Proc. 19th International Conference on System Theory, Control and Computing, Oct. 14-16, 2015, Cheile Grădiștei, Romania, pp. 308-313, ISBN 978-1-4799-8481-7, WOS: 000382384100052 [ISI Proc.]
- Maxime S. Journot, Nicolas Frouvelle, Cosmin Ionut Udroiu, Lucian Florentin Barbulescu, Oana Mariana Hogoiu, Maria Teodorescu, Alexandre Janer, Pol Sola Romeu, Modular Orekit-based Flight Dynamics Software2018 SpaceOps Conference Marseille, France, 2018 SpaceOps Conference, Marseille, France, eISBN: 978-1-62410-562-3, 28 May - 1 June 2018, AIAA 2018-2379, DOI: https://doi.org/10.2514/6.2018-2379
- Lucian-Florentin Barbulescu, Florentin-Alin Butu, Madalin Lucian Mamuleanu, Sorin Lucian Scortan, Thierry Ceolin, Roberto Alacevich, Jonathan Grzymisch, OrbiPro – a toolbox for accurate orbit propagation, 2018 SpaceOps Conference, Marseille, France, eISBN: 978-1-62410-562-3, 28 May - 1 June 2018, AIAA 2018-2648, DOI: https://doi.org/10.2514/6.2018-2648
- Barbulescu, LN., Mogoanta, SS., Barbulescu, LF., Kamal, C., Popa, DL., Popa, RT., A Pilot Colorectal Cancer Study Using Fecal Occult Blood Tests and Colonoscopy to Identify the Weaknesses of the Romanian Public Healthcare System before Implementing National Screening, International Journal of Environmental Research and Public Health. 2023; 20(3):2531, eISSN: 1660-4601, DOI: 10.3390/ijerph20032531, MEDLINE:36767908
- Bărbulescu, L.-N.; Rădulescu, V.-M.; Bărbulescu, L.-F.; Mogoantă, S.-Ș. The Influence of the COVID-19 Pandemic on Colorectal Cancer Secondary Preventive Healthcare Measures. Healthcare 2023, 11, 2457. https://doi.org/10.3390/healthcare11172457
- Bărbulescu, L.-N.; Rădulescu, V.-M.; Mogoantă, S.-Ș.; Bărbulescu, L.-F.; Kamal, C.; Radu, M.; Cismaru, L. A Scoring Method to Prioritize Fecal Occult Blood Testing as a First Step in Colorectal Cancer Screening in Resource-Limited Settings. Diagnostics 2023, 13, 2556. https://doi.org/10.3390/diagnostics13152556
- Butu, FA., Lungu, R., Lungu, M., Barbulescu, LF., Software and hardware platform using dynamic inversion and neural networks for the launch vehicles, 2023 27th International Conference on System Theory, Control and Computing (ICSTCC), Timisoara, Romania, ISBN: 979-835033798-3, 11-13 October 2023, DOI: 10.1109/ICSTCC59206.2023.10308513, pp. 123-128
- Barbulescu, LF., Butu, FA., Mamuleanu, ML., Radulescu, VM., On the computation of the Albedo force perturbation on Low Earth Orbit CubeSats, 2023 27th International Conference on System Theory, Control and Computing (ICSTCC), Timisoara, Romania, ISBN: 979-835033798-3, 11-13 October 2023, DOI: 10.1109/ICSTCC59206.2023.10308502, pp. 137-142
- Barbulescu, LF., Ganea, E., Enescu, N., Automated script-based engine for Apache Kafka messaging system, 2023 22nd RoEduNet Conference: Networking in Education and Research (RoEduNet), Craiova, Romania, eISBN: 979-8-3503-9366-8, 21-22 September 2023, DOI: 10.1109/RoEduNet60162.2023.10274942, pp. 1-4
- Ganea, E., Barbulescu, LF., Dumitrascu, E., Badoi, M., Graphical Programming Environment for Creating Simulation Scenarios, 2023 22nd RoEduNet Conference: Networking in Education and Research (RoEduNet), Craiova, Romania, eISBN: 979-8-3503-9366-8, 21-22 September 2023, DOI: 10.1109/RoEduNet60162.2023.10274933, pp. 1-5
- Bouleanu, DC., Badica, C., **Barbulescu, LF.,** Popa, RT., Popa, DL., On the effects of the Earth's infrared radiation pressure on orbiting satellites, 2024 28th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, ISBN: 979-8-3503-6430-9, 979-8-3503-6429-3, October, 10-12 2024, DOI: 10.1109/ICSTCC62912.2024.10744640, pp. 241-246, WOS: **001440908400040**
- Popa, DL., Popa, RT., **Barbulescu, LF.,** Barbulescu L., Algorithm for Diagnosis and Management of Cardiac Dysfunction in Oncology Patients DIONCO 2025 26th International Carpathian Control Conference (ICCC), Starý Smokovec, High Tatras, Slovakia, ISBN: 979-8-3315-0127-3, 979-8-3315-0126-6, May, 19-21 2025, DOI: 10.1109/ICCC65605.2025.11022830, pp. 1-5

Proiecte de cercetare

- RoNaQCI - Romanian National Quantum Communication Infrastructure, Responsabil partener Universitatea din Craiova, Proiect Finantat 50% de Comisia Europeana, Coordonator Consortiu: Universitatea Politehnica Bucuresti, Apel DIGITAL-2021-QCI-01, Program DIGITAL, Project Number: 101091562
- « Dezvoltarea de instrumente software pentru proiectarea microcircuitelor analogice », Cod CNCSIS: 602, Tip grant: A, Data finalizare: 31.12.2008, Director: conf. dr. ing. Doicaru Elena, Durata

proiectului: 2 ani

- « Sistem de aprofundare a utilizarii produselor tehnice prin autoinstruire si autoevaluare interactiva, bazat pe tehnici multimedia », Cod CNCSIS: 593, Tip grant: A, Data finalizare: 31.12.2008, Director: prof. dr. ing. Marian Gheroghe, Durata proiectului: 2 ani
- “Platforma software si hardware bazata pe controlul de tip backstepping si sistem de navigatie inertiala de tip strap-down pentru vehicule spatiale”, PROIECT NR. 665PED/2022, Director de proiect: Prof. univ. dr. Mihai Lungu, 2022-2024
- CERT ENTRUST - Soluții si tehnologii inovative bazate pe servicii SaaS (Software as a Service) pentru Întreprindere Digitală, Cod SMIS 120269, 2021-2023, Coordonator Centrul de Calcul S.A. Tirgu Jiu.
- Platforma Hardware bazata pe utilizarea retelelor neuronale pentru vehicule spatiale suborbitale si orbitale”, PROIECT NR. 232PED/2017, Director de proiect: Prof. univ. dr. ing. Romulus LUNGU, Membru in colectivul de proiect, (2 ANI)
- “Servitisation Computer”, proiect finantat de Continental Romania, suma 122497 euro + TVA, Director de proiect: Conf. dr. ing. Dan Mancas, Membru in colectivul de proiect (1 AN)
- “Creșterea capacității de cercetare a Universității din Craiova prin investiții în infrastructuri de tip Cloud și Big Data”, cod SMIS 124488, Director de proiect: Conf. dr. ing. Dan Mancas, Membru in colectivul de proiect (2 ANi)