



Curriculum vitae Europass



Personal information

Name **Bădică, Costin**

Address University of Craiova, Faculty of Automation, Computers and Electronics, Department of Computers and Information Technology, Bvd. Decebal 107, 200440, Craiova, Romania

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Web page(s) DBLP: <http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/b/Badica:Costin.html>
Google Scholar: <http://scholar.google.ro/citations?user=b4W8SzgAAAAJ>
ResearchGate: https://www.researchgate.net/profile/Costin_Badica
Web of Science ResearcherID: <https://publons.com/researcher/B-8006-2012/>
ORCID: <https://orcid.org/0000-0001-8480-9867>
Brainmap: <https://www.brainmap.ro/costin-badica>
Web: <http://software.ucv.ro/~cbadica>

Nationality Romanian

Date of birth 19.02.1966

Civil status Married, 1 child

Sex Male

Work experience

Period 2006-present

Position Professor, Ph.D. Supervisor

Activities and responsibilities Lectures in: Artificial Intelligence, Distributed Network Application Development, Electronic Commerce, Programming Techniques, Semantic Systems, Multi-Agent Systems

Place, institution University of Craiova, Faculty of Automation, Computers and Electronics, Department of Software Engineering / Department of Computers and Information Technology, Bvd. Decebal 107, 200440, Craiova, Romania

Period 2012-present

Position *Director of Doctoral School „Constantin Belea”* of the Faculty of Automation, Computers and Electronics, University of Craiova, Romania

Activities and responsibilities Management of Doctoral Activity of the Faculty of Automation, Computers and Electronics, University of Craiova, Romania

Place, institution University of Craiova, Faculty of Automation, Computers and Electronics, Department of Software Engineering / Department of Computers and Information Technology, Bvd. Decebal 107, 200440, Craiova, Romania

Period 2007-2011

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|---------------------------------|--|
| Position | <i>Scientific Officer</i> of the Faculty of Automation, Computers and Electronics, University of Craiova, Romania |
| Activities and responsibilities | Management of scientific and research activities at the Faculty of Automation, Computers and Electronics, University of Craiova, Romania |
| Place, institution | University of Craiova, Faculty of Automation, Computers and Electronics, Department of Software Engineering / Department of Computers and Information Technology, Bvd. Decebal 107, 200440, Craiova, Romania |
| Period | 2002-2006 |
| Position | Associate professor |
| Activities and responsibilities | Lectures in: Artificial Intelligence, Network Application Development, Electronic Commerce, Programming Techniques, Web Application Development |
| Place, institution | University of Craiova, Faculty of Automation, Computers and Electronics, Department of Software Engineering, Bvd. Decebal 107, 200440, Craiova, Romania |
| Period | 2001-2002 |
| Position | Postdoctoral Research Associate |
| Activities and responsibilities | Scientific research in Computer Science, Researcher in EU-FP5-IST-10387-1999, INSPIRE research project |
| Place, institution | King's College London, Department of Computer Science, The Strand, London WC2R 2LS, England, United Kingdom |
| Period | 1996-2001 |
| Position | Lecturer |
| Activities and responsibilities | Lectures in: Artificial Intelligence, Programming Techniques, Assembly Language Programming, Methods for Software Development |
| Place, institution | University of Craiova, Faculty of Automation, Computers and Electronics, Computer Department, Bvd. Decebal 107, 200440, Craiova, Romania |
| Period | 1994-1996 |
| Position | Teaching assistant |
| Activities and responsibilities | Laboratories in: Artificial Intelligence, Computer Programming, Programming Techniques, Assembly Language Programming, Data Structures and Algorithms |
| Place, institution | University of Craiova, Faculty of Automation, Computers and Electronics, Computer Department, Bvd. Decebal 107, 200440, Craiova, Romania |
| Period | 1990-1994 |
| Position | Instructor |
| Activities and responsibilities | Laboratories in: Computer Programming, Programming Techniques, Assembly Language Programming, Data Structures and Algorithms |
| Place, institution | University of Craiova, Faculty of Automation, Computers and Electronics, Computer Department, Bvd. Decebal 107, 200440, Craiova, Romania |
| Supervised Ph.D. theses | |
| Period | 2008-2011 |
| Student | Mihnea Scafes, https://dblp.org/pers/hd/s/Scafes:Mihnea |
| Thesis Title | Contributions to multi-issue negotiation mechanisms between software agents |
| Period | 2009-2012 |
| Student | Sorin Ilie, https://dblp.org/pers/hd/i/Ilie:Sorin |
| Thesis Title | Distributed Architecture for Swarm Intelligence |

Period 2010-2013
 Student Alex Muscar, <http://dblp.org/pers/hd/m/Muscar:Alex>
 Thesis Title Exploring the Design Space of Agent-Oriented Programming Languages

Period 2014-2019
 Student Alex Becheru, <https://dblp.org/pers/hd/b/Becheru:Alex>
 Thesis Title Complex Networks Analysis

Education and training

Period 1993-1999
 Qualification/diploma obtained Diploma Doctor Engineer (Ph.D.) in Control Systems, thesis title: " Dynamic systems diagnosis using expert systems", scientific advisor: Prof. Vladimir Răsvan, PhD
 Place, institution University of Craiova, Faculty of Automation, Computers and Electronics, Computer Department, Bvd. Decebal 107, 200440, Craiova, Romania

Period 1985-1990
 Qualification/diploma obtained Diploma Engineer, Electric Profile, Automation and Computers Speciality
 Place, institution University of Craiova, Faculty of Automation, Computers and Electronics, Computer Department, Bvd. Decebal 107, 200440, Craiova, Romania

Period February 1994 – June 1994
 Qualification/diploma obtained Tempus research stage, TEMPUS JEP - 2751 - 1991 -1994 "Dezvoltarea învățământului superior la Facultatea de Automatica - Universitatea din Craiova în domeniul automaticii și informaticii industriale"
 Place, institution University of Padova, Italy (Prof. Sergio Congiu)

Period May 1996 – June 1996
 Qualification/diploma obtained Tempus research stage, TEMPUS DISCO S_JEP 07101-94 1994-1996 „Dezvoltarea în România a învățământului de scurtă durată centrat pe calcul distribuit și aplicațiile sale”
 Place, institution University of Paris Sud, Orsay, France (Prof. Michel de Rougemont)

Period April 27 – May 2 , 2014
 Qualification/diploma obtained Multi-agent systems and their role in future energy grids, Dagstuhl Seminar 14181
 Place, institution Dagstuhl, Germany

Specializations and qualifications

Period June 2000
 Qualification/diploma obtained ROMSYS Certificate Jbuilder 3.0 (Java programming language)
 Place, institution Bucharest, Romania, ROMSYS SA

Language skills

Mother language Romanian

Foreign languages

Self-evaluation

English

French

Italian

| | <i>Understanding</i> | <i>Speaking</i> | <i>Writing</i> |
|---------|-----------------------|-----------------------|-----------------------|
| English | Proficient user (C2) | Proficient user (C2) | Proficient user (C2) |
| French | Independent user (B1) | Independent user (B1) | Independent user (B1) |
| Italian | Basic user (A2) | Basic user (A2) | Basic user (A2) |

Invited lectures / Mobilities

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| Period | 2002 |
| Topic | Introduction to XML |
| Place, institute | Brunel University, London, UK (Prof. Mark Hartman) |
| Period | 2006 |
| Topic | Information extraction using XML and logic programming |
| Place, institute | Université de Technologie de Compiègne, France (Prof. Philippe Trigano) |
| Period | 2008 |
| Topic | FSP and FLTL Framework for Specification and Verification of Middle-Agents |
| Place, institute | AGH University, Krakow, Poland (Prof. Antoni Ligeza, Prof. Grzegorz J. Nalepa) |
| Period | June 19-21, 2010 |
| Topic | Using Logic Programming and XML Technologies for Data Extraction from Web Pages |
| Place, institute | Koreu-EU Forum 2010, Gyeongju, Korea (Prof. Jason J. Jung) |
| Period | June 19-21, 2010 |
| Topic | Agent Technology for Disaster Management, <i>Invited lecture</i> |
| Place, institute | NATO Advanced Study Institute, Software Agents, Agent Systems and Their Applications, Tangiers, Morocco (Prof. Mohammad Essaïdi) |
| Period | September 13-23, 2010 |
| Topic | Negotiations in Multi-Agent Systems, <i>Invited tutorial</i> |
| Place, institute | 8th IFIP International Conference on Artificial Intelligence Applications and Innovations (AIAI 2012) Greece (Prof. Lazaros Iliadis, Prof. Yannis Manolopoulos) |
| Period | April 2017 |
| Topic | Erasmus Teaching Mobility, <i>Introduction to Multi-Agent Systems</i> (MSc. Course in Telecommunications Engineering), |
| Place, institute | Engineering Technical School (ETSE), University of Valencia, Spain (Prof. Jaime Segura Garcia) |
| Period | November 2017 |
| Topic | Erasmus Training Mobility, Invited Research Talk: <i>Intelligent Agent Programming: from Theory to Practice</i> (Applied Intelligence & Data Analysis research group – AI+DA, http://aida.ii.uam.es/) |
| Place, institute | Escuela Politécnica Superior/Departamento de Ingeniería Informática, Universidad Autónoma de Madrid, Spain (Prof. David Camacho Fernández) |
| Period | June 19, 2018 |
| Topic | Invited lecture: „Agent Programming” (Multi-Agent Systems and Learning Agents Summer School LeMAS-2018, AI-MAS research group, http://aimas.cs.pub.ro/lemas-2018/presentations) |
| Place, Institute | „Politehnica” University of Bucharest, Romania (Prof. Adina-Magda Florea, Prof. Andrei Olaru) |
| Period | August 1, 2018 |

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| Topic | Invited lecture „Constraint Logic Programming: from Declarative Modeling to Problem Solving”, Workgroup for Soft Computing, Programming and Algorithms, https://www.informatik.fb2.frankfurt-university.de/~logofatu/2nd%20Research%20Session.pdf |
| Place, Institute | Frankfurt University of Applied Sciences, Department of Computer Science and Engineering, Frankfurt am Main, Germany (Prof. Dr. Doina Logofătu) |
| Period | December 2-9, 2018 |
| Topic | Invited lecture „Agent-Oriented Programming. From Theory to Practice” in Seminar at Systems Research Institute. Polish Academy of Sciences IBS-PAN, Warsaw, Poland http://www.ibspan.waw.pl/aktualnosci/aktualnosci1/seminar_with_the_presentations_of_our_partners_from_romania_university_of_craiova-12 |
| Period | September 4, 2019 |
| Topic | Keynote talk: „Agent and optimization for collective profitability, freight transportation brokering and structured project scheduling” at 11th International Conference on Computational collective Intelligence, Hendaye – France http://iccci.sigappfr.org/keynote-speakers/ |
| Place, Institute | Auditorium Antoine d'Abbadie, Hendaye – France (Prof. Ngoc Thanh Nguyen, Prof. Richard Chbeir) |

Awards and Distinctions

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| Period | 25-29 June 2006 |
| Outcome | <u>Best Presentation Award</u> for the paper „Rule-Based Automated Price Negotiation: Overview and Experiment” |
| Place | 8th Int. Conf. on Artificial Intelligence and Soft Computing, ICAISC'2006, Zakopane, Poland |
| Period | 18.03.2011 |
| Outcome | <u>Certificate of Achievement 1991 – 2011</u> |
| Place, institution | Bucharest, IEEE Romania Section |
| Period | 28-30 September 2016 |
| Outcome | <u>Best Paper Award</u> for the paper „Collective Profitability and Welfare in Selling-Buying Intermediation Processes” |
| Place | 8th International Conference on Computational Collective Intelligence, ICCCI 2016, Halkidiki, Greece |
| Period | 7-9 October 2015 |
| Outcome | <u>Honorable Mention</u> for the paper „FSP Modeling of a Generic Distributed Swarm Computing Framework” |
| Place | 9th International Symposium on Intelligent Distributed Computing - IDC'2015, Guimarães, Portugal |

Additional Information

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| Fields of interest | Artificial Intelligence Multi-Agent Systems Software Engineering Distributed Systems |
| Research group | Head of „Intelligent Distributed Systems” Research Group http://ids.software.ucv.ro/ |

Editorial activity

1. Special Issue on Special Issue on Intelligent Systems Informatica (Slovenia), Volume 32, Issue 4, 340-396, 2008. URL: <http://www.informatica.si/vol32.htm#No4> Editorial URL: http://www.informatica.si/PDF/32-4/02_Introduction.pdf
2. Special Issue on Intelligent Distributed Information Systems, Information Sciences, Volume 180, Issue 10, 1779-1923, 2010 Editorial DOI: <http://dx.doi.org/10.1016/j.ins.2010.02.001>
3. Special Issue on Intelligent Agent-Based Cooperative Systems Computer Science and Information Systems, Volume 7, Issue 3, 551-677, 2010 URL: <http://www.comsis.org/archive.php?show=vol0703> Editorial URL: <http://www.comsis.org/archive.php?show=pag0703quest>
4. Special Issue on E-Service Intelligence Informatica (Slovenia), Volume 34, Issue 4, 407-490, 2010 URL: <http://www.informatica.si/vol34.htm#No4> Editorial URL: http://www.informatica.si/PDF/34-4/01_Badica-Editorial.pdf
5. Special Issue on Intelligent Agent-Based Cooperative Systems Computer Science and Information Systems, Volume 7, Issue 3, 551-677, 2010 URL: <http://www.comsis.org/archive.php?show=vol0703> Editorial URL: <http://www.comsis.org/archive.php?show=pag0703quest>
6. Special Issue on Agent and Multi-Agent Systems in E-Business International Journal of Intelligent Information and Database Systems, Vol. 3 No. 2, 2009 URL: <http://www.inderscience.com/info/inarticletoc.php?code=ijids&year=2009&vol=3&issue=2> Editorial URL: <http://www.inderscience.com/browse/getEditorial.php?articleID=1591>
7. Special Issue on Intelligent Distributed Computing, Concurrency and Computation: Practice and Experience, Volume 24, Issue 6, Pages 555–660, 2012 URL: <http://onlinelibrary.wiley.com/doi/10.1002/cpe.v24.6/issuetoc> Editorial DOI: <http://dx.doi.org/10.1002/cpe.1851>
8. Special Issue on Intelligent Distributed Computing, International Journal on Artificial Intelligence Tools, Volume 20, Issue 6, Pages 981–1180, 2011, URL: <http://www.worldscientific.com/toc/ijait/20/06> Editorial DOI: <http://dx.doi.org/10.1142/S0218213011000486>
9. Special Issue on Knowledge and Intelligence in Distributed Systems with International Journal of Bio-Inspired Computation, Volume 5, Issue 4, Pages 199–251, 2013, URL: <http://www.inderscience.com/info/inarticletoc.php?code=ijbic&year=2013&vol=5&issue=4> Editorial URL: <http://www.inderscience.com/editorials/f510113968174212.pdf>
10. Special issue on computational collective intelligence, Neurocomputing 146: 137-139 (2014), URL: <http://dx.doi.org/10.1016/j.neucom.2014.06.049>
11. Special Issue on Intelligent Distributed Processing Methods for Big Data, Journal of Universal Computer Science 21(6): 754-756 (2015), URL: http://www.jucs.org/jucs_21_6/intelligent_distributed_processing_methods
12. Special Issue on Intelligent Distributed Computing, Computing and Informatics 34(1): 1-3 (2015) URL: <http://www.cai.sk/ojs/index.php/cai/article/view/3032>

Member in the editorial board of the following international journals:

1. International Journal of Computer Science & Applications. IJCSA. ISSN 0972-9038
2. Computer Science and Information Systems. ComSIS. ISSN 1820-0214
3. Annals of the University of Craiova. Series: Automation, Computers, Electronics and Mechatronics. ISSN: 1841-0626
4. International Journal of Agent Technologies and Systems (IJATS). ISSN 1943-0752

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| Research projects | <ol style="list-style-type: none"> 1. INSPIRE: Intelligent Support for People Oriented Process Re-Engineering and Change Management, EU-FP5-IST-10387-1999, 1.03.2000 – 31.08.2002 (team member, postdoctoral researcher, DCS-KCL, London, UK) 2. SUM: E-Commerce Supermarket System, E! 2754 (Eureka, 2003-2005, buget: 99167 LEI, director) 3. HIPERPROC: Hypermedia Techniques for Knowledge-Based Representation of Business Processes, Grant 94/2005 (2005-2007, buget: 64000 LEI, director), 4. Technologies and Intelligent Software Tools for Automated Construction of E-catalogues of Products Using Knowledge Acquisition from the Web, Grant 185/2006 (2005-2007, buget: 54515 LEI, membru) 5. eDalgo: eDidactique de l'Algorithmique. Support interactif de cours pour l'apprentissage autonome de l'algorithmique et de la programmation (AUF 6316PS635, 2006-2007, budget: 20000 EUR, director) 6. UNIT 2008-1 C_Facile and UNIT 2008-2 AlgoBank. Two small projects funded by UNIT - Université Numérique Ingénierie et Technologie, France. (2007-2008, Budget: 2000 EUR, membru si director) 7. SCIPA: Servicii software semantice de Colaborare si Interoperabilitate pentru realizarea Proceselor Adaptive de business. (ANCS, 2008-2011, buget: 145300 LEI, director) 8. DIADEM: Distributed information acquisition and decision-making for environmental management, (FP7-ICT 224318. 2008-2011, Buget: 220200 EUR, director) 9. K-SWAN: An Interoperable Knowledge-based Framework for Negotiating Semantic Web Agents (Proiect bilateral Grecia-Romania, 2012-2013, buget: 18480 LEI, director) 10. "Software Engineering: Computer Science Education and Research Cooperation", DAAD Project in „Stability Pact Sponsored by Germany” (partner director 2012-2016, Budget: ~6000 EUR) 11. E-DRIVE-TOUR: bEyonD the boRder of electrIc VEhicles: an advanced inTeractive coURse, Erasmus+ Programme, Knowledge Alliances, PROJECT NUMBER: 612522-EPP-1-2019-1-EL-EPPKA2-KA (partner director 2020-2022, (Total grant: 724.583 EUR, UCV Budget: 73.612 EUR) |
| Conference organizer | <ol style="list-style-type: none"> 1. Co-initiated the “Intelligent Distributed Computing – IDC” series of international conferences, now at the 14-th edition 2. Co-organized as “conference chair”: <ul style="list-style-type: none"> - “5th International Conference on Computational Collective Intelligence Technologies and Applications – ICCCI’2013”, 11-13 September 2013, Craiova, Romania - “7th Balkan Conference in Informatics, BCI’2015”, 2-4 September 2015, Craiova, Romania - “2016 International Symposium on INnovations in Intelligent SysTems and Applications, INISTA’2016”, 2-5 August 2016, Sinaia, Romania - „2014 Workshop on Software Engineering: Computer Science Education and Research Cooperation”, 25-29 August 2014, Sinaia, Romania 3. Co-organized as “program chair”: <ul style="list-style-type: none"> - “1st International Symposium on Intelligent and Distributed Computing, IDC’2007”, October 18-20, Craiova, Romania - “2nd International Conference on Web Intelligence, Mining and Semantics, WIMS’12”, June 13-15, 2012, Craiova, Romania 4. PC member in more than 100 international conferences |
| Memberships | <ol style="list-style-type: none"> 1. Founding member of the Romanian Association of Artificial Intelligence (ARIA) 2. Member of Technical Committee on Computational Collective Intelligence, IEEE SMC Society 3. Member, ACM 4. Member, IEEE |

Expert reviewer

1. CHIST-ERA Call 2011: The 2nd international call for research projects within the ERA-Net CHIST-ERA, (European Coordinated Research on Long-term Challenges in Information and Communication Sciences and Technologies) on "From Data to New Knowledge".
2. PN-II-RU-TE-2014-4: Tinere Echipe 2014
3. Expert in project „Elaborarea Strategiei Nationale in domeniul Cercetarii, Dezvoltarii tehnologice si Inovarii pentru perioada 2014-2020”, ICT field
4. Expert reviewer. CHIST-ERA "Projects Seminar 2016"
5. Expert reviewer: FONDECYT Regular 2016 grant competition, Chilean National Science and Technology Commission (CONICYT - Chile)
6. Scientific expert: L'Agence Nationale de la Recherche (ANR), Appel 2016, France
7. Expert reviewer in the Open Call of the H2020 „Interoperability of Heterogeneous IoT Platforms – INTER-IoT” H2020 research project
8. Reviewer, UPB - GEX 2017, Internal competition of University „Politehnica” Bucharest
9. Expert evaluator AUF in Comisia nationala de evaluare pentru bursele doctorale si postdoctorale "Eugen Ionescu", 2020

Publications and citations

> 200 research papers in journals and conference proceedings indexed in Scopus
> 110 papers are ISI indexed
> 535 citations (without self-citations) Scopus indexed
Hirsch index = 20 (Google Scholar)
Hirsch index = 10 (Scopus)