Curriculum vitae



Informații personale

Nume	**Florin Leon**
E-mail	florin.leon@academic.tuiasi.ro
Site web	https://florinleon.byethost24.com
Naționalitate	Română
Data nașterii	10 martie 1977
Stare civilă	Căsătorit, 2 copii

Experiența profesională

Perioada	Februarie 2015 - prezent
Funcția sau postul ocupat	Profesor
Discipline predate	Inteligență artificială, Învățare automată, Ingineria programării, Sisteme multi-agent
Locul, instituția	Facultatea de Automatică și Calculatoare, Universitatea Tehnică „Gheorghe Asachi” din Iași
Perioada	Octombrie 2012 - ianuarie 2015
Funcția sau postul ocupat	Conferențiar
Discipline predate	Inteligență artificială, Ingineria programării, Managementul proiectelor software, Modelarea și analiza sistemelor multi-agent
Locul, instituția	Facultatea de Automatică și Calculatoare, Universitatea Tehnică „Gheorghe Asachi” din Iași
Perioada	Martie 2006 – septembrie 2012
Funcția sau postul ocupat	Șef de lucrări
Discipline predate	Inteligență artificială, Ingineria programării, Managementul proiectelor software, Modelarea și analiza sistemelor multi-agent, Aplicații ale inteligenței artificiale, Rețele neuronale, Tehnici de descoperire automată a cunoștințelor pe Internet
Locul, instituția	Facultatea de Automatică și Calculatoare, Universitatea Tehnică „Gheorghe Asachi” din Iași
Perioada	Octombrie 2005 – februarie 2006
Funcția sau postul ocupat	Asistent
Discipline predate	Inteligență artificială, Ingineria programării, Rețele neuronale
Locul, instituția	Facultatea de Automatică și Calculatoare, Universitatea Tehnică „Gheorghe Asachi” din Iași
Perioada	Octombrie 2003 – februarie 2005
Funcția sau postul ocupat	Asistent asociat
Discipline predate	Inteligență artificială, Ingineria programării
Locul, instituția	Facultatea de Automatică și Calculatoare, Universitatea Tehnică „Gheorghe Asachi” din Iași
Perioada	Octombrie 2001 – iunie 2003
Funcția sau postul ocupat	Preparator asociat
Discipline predate	Inteligență artificială, Ingineria programării
Locul, instituția	Facultatea de Automatică și Calculatoare, Universitatea Tehnică „Gheorghe Asachi” din Iași

Educație și formare

Perioada	Octombrie 2001 – mai 2005

Calificarea / diploma obținută	Diplomă de doctor, titlul tezei: „Noi clase de agenți inteligenți cu capacități cognitive”, conducător științific: prof. dr. ing. Dan Gâlea
Locul, instituția	Facultatea de Automatică și Calculatoare, Universitatea Tehnică „Gheorghe Asachi” din Iași
Perioada	Octombrie 1996 – iunie 2001
Calificarea / diploma obținută	Diplomă de inginer
Locul, instituția	Facultatea de Automatică și Calculatoare, Universitatea Tehnică „Gheorghe Asachi” din Iași

Specializări și calificări

Perioada	Ianuarie 2015
Calificarea	Abilitare
Informații	Titlul tezei: *Advanced Methods in Artificial Intelligence: Agents, Optimization and Machine Learning*
Perioada	Noiembrie 2005 – octombrie 2007
Funcția	Cercetător științific
Informații	Proiectul CEEX nr. 3202/2005 tip PD, în sprijinul programelor postdoctorale, „Managementul vulnerabilității seismice a fondului urban construit utilizând Infrastructura de Informații Spațiale (IIS)”, director: prof. dr. ing. Gabriela M. Atanasiu, Facultatea de Construcții și Instalații, Universitatea Tehnică „Gheorghe Asachi” din Iași

Competențe lingvistice

Limba maternă	Română
Limbi străine cunoscute	Engleză (avansat), franceză (mediu), norvegiană (începător)

Mobilități

Lector invitat	Mai 2007, aprilie 2008, mai 2010, aprilie 2012, aprilie 2013, mai 2014: “Artificial Intelligence Methods”, Universitatea de Științe Aplicate, Konstanz, Germania
Stagii de cercetare-documentare	Mai 2006, mai 2011, Universitatea de Științe Aplicate, Konstanz, Germania

Plenary/Keynote Speaker

Neuro-Symbolic Systems and the Challenge of Artificial General Intelligence, FAI-CS Workshop (Frontiers in Artificial Intelligence: Challenges and Perspectives), Smart Diaspora 2025, 6 November 2025, Cluj-Napoca, Romania

Smarter Together: How AI Can Power Research, "Boosting Research Collaboration and Networking with Artificial Intelligence" online workshop, part of the BI4E initiative (Boosting INGENIUM for Excellence, BI4E, project), 25 June 2025

AI Applications in Healthcare and Possible Future Approaches to Enhance Decision Transparency, UK – Romania Conference "Exploring our AI Potential", 28 February 2024, Bucharest, Romania

Artificial Intelligence Applications: Machine Learning and Multi-Agent Systems, Sibiu Innovation Days (SID 2023), 5 October 2023, Sibiu, Romania

Artificial Intelligence Applications: Machine Learning, Optimization Algorithms, Multi-Agent Systems and Autonomous Driving, Trust-AI Workshop (Human-Centered Approaches for Trustworthy Artificial Intelligence), Smart Diaspora 2023, 11 April 2023, Timisoara, Romania

Advanced Artificial Intelligence Methods. Formulating Problems for Quantum Optimization, Doctoral School Conference of the "Gheorghe Asachi" Technical University of Iasi, 22 May 2019, Iasi, Romania

Deep Reinforcement Learning, "Artificial Intelligence towards Autonomous Driving" event organized by the Continental company, 12 June 2018, Iasi, Romania

Management

Coordonator al programului de masterat „Artificial Intelligence” în limba engleză, AC, TUIASI, 2024-prezent

	Director al centrului de cercetare „Echipamente și programe inteligente”, AC, TUIASI, 2017-prezent
	Coordonator al programului de licență „Tehnologia informației”, AC, TUIASI, 2012-2020
	Coordonator al programului de masterat „Distributed Systems and Web Technologies study programme” în limba engleză, AC, TUIASI, 2012-2024
	Membru în Consiliul Școlii Doctorale, TUIASI, 2020-prezent
	Membru în Consiliul Școlii Doctorale, AC, TUIASI, 2016-prezent
	Director adjunct al Departamentului de Calculatoare, AC, TUIASI, 2012-2015

Informații suplimentare

Domenii de interes	Inteligență artificială, agenți inteligenți, proiectare software
Membru în comitete de organizare ale conferințelor	Special Session on "Intelligent Modeling and Simulation Approaches for Games and Real World Systems", within the 12th International Conference on Computational Collective Intelligence Technologies and Applications, ICCCI 2020, Da Nang, Vietnam
	Special Session on "Intelligent Modeling and Simulation Approaches for Games and Real World Systems", within the 12th Asian Conference on Intelligent Information and Database Systems, ACIIDS 2020, Phuket, Thailand
	Special Session on "Intelligent Modeling and Simulation Approaches for Real World Systems", IMSARWS 2019, within the International Conference on Computational Collective Intelligence Technologies and Applications, ICCCI 2019, Hendaye, France
	Joint International Conference on System Theory, Control and Computing, ICSTCC 2011, ICSTCC 2014, ICSTCC 2017, Sinaia, Romania
	PC chair: Balkan Conference in Informatics, BCI 2015, Craiova, Romania
	9th International Symposium on Automatic Control and Computer Science, SACCS 2007, Iasi, Romania
Session chairman	Joint International Conference on System Theory, Control and Computing, ICSTCC 2024, Sinaia, Romania
	Joint International Conference on System Theory, Control and Computing, ICSTCC 2020, Online
	11th International Conference on Computational Collective Intelligence Technologies and Applications, ICCCI 2019, Hendaye, France
	Joint International Conference on System Theory, Control and Computing, ICSTCC 2019, Sinaia, Romania
	9th International Conference on Computational Collective Intelligence Technologies and Applications, ICCCI 2017, Nicosia, Cyprus
	14th International Conference on Artificial Intelligence Applications and Innovations, AIAI 2018, Rhodes, Greece
	First Conference of Doctoral Schools, Iasi, Romania, May 2017
	7th International Conference on Exploring Service Science, IESS 2016, Bucharest, Romania
	International Symposium on INnovations in Intelligent SysTems and Applications, INISTA 2016, Sinaia, Romania
	8th International Conference on Computational Collective Intelligence Technologies and Applications, ICCCI 2016, Halkidiki, Greece
	7th Balkan Conference on Informatics, BCI 2015, Craiova, Romania
	5th International Conference on Computational Collective Intelligence Technologies and Applications, ICCCI 2013, Craiova, Romania
	Third International Conference on Computational Collective Intelligence, ICCCI 2011, Gdynia, Poland
	Third International Conference on Advanced Cognitive Technologies and Applications, COGNITIVE 2011, Rome, Italy
	Joint International Conference on System Theory, Control and Computing, ICSTCC 2011, Sinaia, Romania
	The International Conference on Experimental Mechanics, ICEM 2006, Jeju, South Korea
Membru invitat în comitete editoriale	*Mathematics, Mathematics and Computer Science section* (2021-prezent)

	Mathematics, Special issues: Advances in Artificial Intelligence: Models, Optimization, and Machine Learning (2021-2022), Advances in Artificial Intelligence: Models, Optimization, and Machine Learning 2 (2022-2024), Advances in Artificial Intelligence: Models, Optimization, and Machine Learning 3 (2024-prezent)
	Frontiers in Optical Communications and Networks, Guest Associate Editor (2022-2025)
	Frontiers in Artificial Intelligence, specialty section on Organoid Intelligence, Review Editor (2023-2025)
	Bulletin of the Polytechnic Institute of Iasi, Electrical Engineering. Power Engineering. Electronics section (2023-present)
	Applied Sciences, Special issue: Research Progress on the Application of Multi-Agent Systems (2023-2025)
	Computer Science and Information Systems (ComSIS Journal): Special section "Papers selected from the 8th Balkan Conference in Informatics (BCI 2017)", guest editor, vol. 15, issue 3, 2018
	Journal of Intelligent & Fuzzy Systems: Collective Intelligent Information and Database Systems (special issue), 2016
	Computing and Informatics: Intelligent Distributed Computing (special issue), 2013
Alte activități	Expert evaluator pentru competiția de granturi interne a Universității Tehnice din Cluj-Napoca (2017)
	Expert evaluator pentru competiția de granturi interne a Universității Politehnica din Timișoara (2017)
	Membru în juriul concursului studențesc organizat de Facultatea de Automatică și Calculatoare, Universitatea Tehnică „Gheorghe Asachi" din Iași (2009, 2010, 2013)
	Coordonator al studenților Facultății de Automatică și Calculatoare participanți la concursul de programare ACM (2010)
Membru în asociații profesionale	IEEE Systems, Man and Cybernetics Society: Computational Collective Intelligence Technical Community
	The Romanian Association for Artificial Intelligence
	Bulgarian Association for Pattern Recognition (a member society of the International Association for Pattern Recognition)
	International Association for Life-Cycle Civil Engineering
	European Association for Earthquake Engineering
Brevete	*Lucrări înscrise în Registrul Național de Opere administrat de Oficiul Român pentru Drepturi de Autor (înregistrate personal):*
	1. Silvia Curteanu, Florin Leon, Marius Gavrilescu, Nicoleta Anton, Catalin Lisa, Filip Tarcoveanu, *Neural Networks Designed in Pytorch for the Prediction of Glaucoma Evolution*, nr. 4867 / 29.11.2023
	2. Silvia Curteanu, Florin Leon, Marius Gavrilescu, Software Framework for Solving Regression *Problems Using Individual Algorithms and Algorithms Combined in Ensembles*, nr. 4813 / 24.11.2023
	3. Silvia Curteanu, Marius Gavrilescu, Catalin Lisa, Florin Leon, Costel Anton, Sabina-Adriana Floria, *Modeling the Brick Manufacturing Process Using Ensembles of Biologically and Socially Inspired Evolutionary Methods*, nr. 4805 / 23.11.2023
	4. Silvia Curteanu, Florin Leon, Marius Gavrilescu, Costel Anton, Catalin Lisa, Sabina-Adriana Floria, *Using Biologically Inspired Algorithms to Minimize Emissions in the Bricks Obtaining Process*, nr. 4670 / 15.11.2023
	5. Florin Leon, Silvia Curteanu, Nearest Neighbor Regression Algorithm with Adaptive Distance Metrics Trained by Multiple Point Hill Climbing on Noisy Training Set, nr. 6573 / 15.10.2018
	6. Silvia Curteanu, Florin Leon, Large Margin Nearest Neighbor Regression Algorithm (LMNNR), nr. 4951 / 23.08.2018
	7. Florin Leon, Silvia Curteanu, Algoritm adaptiv pentru regresie bazat pe paradigma celor mai apropiați vecini (AKNN), nr. 6232 / 24.07.2013
	8. Silvia Curteanu, Florin Leon, Artificial Intelligence Toolbox. Neural Network Topology, nr. 14226 / 26.10.2010
	9. Florin Leon, Silvia Curteanu, Algoritmi genetici. Optimizare scalară multi-obiectiv, nr. 14404 / 5.11.2010
	10. Florin Leon, Silvia Curteanu, Stacked Neural Networks, nr. 14506 / 12.11.2010

Alte mențiuni	Membru al International High IQ Society Certificare Brainbench: Problem Solving - Qualitative (Metric)
Proiecte de cercetare	A se vedea Anexa 1
Lista de lucrări	A se vedea Anexa 2

Iași, 16 noiembrie 2026

prof. dr. ing. Florin Leon

Teza doctorat
Iasi

Semnatar: Leon Florin
Data: 2026.11.16 12:43:52 +0200

Proiecte de cercetare / Research Projects

Director, responsabil de proiect / Director, scientific leader

Director: DigitAll: Innovation Center for Artificial Intelligence, contract no. GI-TD-DigitAll-03/2022, internal grant of TUIASI, period: 2022-2023

Director TUIASI: Proreta 5, contracts no. 10118 / 16.05.2019, 1721 / 23.01.2020, 12371/21.05.2021, 15290/11.05.2022 with Continental Automotive Romania, period: 2019-2022 (https://www.proreta.tu-darmstadt.de/proreta/index.en.jsp)

Director: Behavioural Patterns Library for Intelligent Agents Used in Engineering and Management, PNII, IDEI, code 316/2008, contract no. 671 / 19.01.2009, period: 2009-2011, budget: 402130.38 lei (http://florinleon.byethost24.com/bepalia/index_en.htm)

Scientific leader TUIASI: Road Networks for Earthquake Resilient Societies (ROADERS), ERA-NET CONCERT Japan project, contract no. 3003/2013 in the Partnership Module of UEFISCDI, period: 2013-2015 (http://florinleon.byethost24.com/mcserm/en/roaders.htm)

Proiecte internaționale (membru în echipă) / International projects (team member)

DocTalent4EU: Transforming Europe through Doctoral Talent and Skills Recognition, Horizon-Widera-2022, GA no. 10109592, period: 2023-2024, TUIASI coordinator: Alina-Adriana Minea (https://cordis.europa.eu/project/id/101095292)

VolEvol: Generation of Meaningful Representations of Volume Data Through Evolutionary Learning, Horizon 2020 Programme, EU.2.1.1, grant no. 951911, period: 2023-2024, TUIASI research group leader: Marius Gavrilescu (https://www.ai4media.eu/winners2/volevol)

FiDisD: Fighting Dissinformation Using Descentralized Actors Featuring AI and Blockchain Technologies, grant no. 957228, Horizon 2020 Programme, TruBlo call - Trusted and Reliable Content for Future Blockchains, period: 2022-2023, TUIASI research group leader: Cristian-Nicolae Butincu (https://www.trublo.eu/fidisd)

REVERT: taRgeted *thErapy for adVanced colorEctal canceR paTients*, HORIZON 2020 project, code 848098, period: 2021-2023, TUIASI research group leader: Paul-Corneliu Herghelegiu (https://www.revert-project.eu)

Member in Romanian management committee: Multi-Paradigm Modelling for Cyber-Physical Systems (MPM4CPS), ICT COST Action IC1404, period 2014-2018 (http://florinleon.byethost24.com/cost_ic1404)

SERIES: Seismic Engineering Research Infrastructures for European Synergies, FP7 project no. 227887/2009, period: 2009-2012, TUIASI research group leader: Gabriela Maria Atanasiu (https://cordis.europa.eu/project/id/227887)

EFAST: Design Study of a European Facility for Advanced Seismic Testing, FP7 project no. 212109/2007, period: 2008-2011, TUIASI research group leader: Gabriela Maria Atanasiu (https://cordis.europa.eu/project/id/212109)

Assistant coordinator: European University Association (EUA) Quality Culture Project, Round III, Network 3, Implementing Bologna Reforms, DG EC AGR n. 2004-3922/001-001 S02-81AWB, period: 2005-2006, network coordinator: Gabriela Maria Atanasiu

Proiecte naționale (membru în echipă) / Romanian national projects (team member)

HRIA: Romanian Hub for Artificial Intelligence / Hub roman de inteligenta artificiala, contract PCIDIF no. G 2025 - 22801/390012, code SMIS 351416, period: 2025-2029, TUIASI research group leader: Vasile-Ion Manta (https://hria.upb.ro/)

Tangrama Medvolution: We Evolve Together for Better Health, Redefining Innovation in Medicine / Evoluam impreuna pentru o sanatate mai buna, redefinind inovatia in medicina, contract no. 730/10.07.2025, code SMIS 338516, period: 2025-2027, TUIASI research group leader: Adrian Alexandrescu

FluidExAp: New Heat Transfer Fluids for Heat Exchange Applications / Noi fluide de transfer termic in operatii de schimb de caldura, type PCE, no. 18 PCE/08.01.2025, period: 2025-2027, director: Alina-Adriana Minea (https://fluidexap.tuiasi.ro/en/)

HAVOC: From human to virus. Optimization algorithms with applications in chemical engineering / De la om la virus. Algoritmi de optimizare cu aplicatii in ingineria chimica, contract: PN III PCE nr. 91/2021, period 2021-2023, budget: 1,197,721 RON, director: Silvia Curteanu (http://pce-91-2021.info/index_en.html)

Mentor: NORAN: Increasing the fire resistance of buildings through the use of nanostructures and AI-based analysis of their impact in human evacuation / Cresterea rezilientei la incendiu a constructiilor prin utilizarea nanostructurilor si analiza bazata pe IA a impactului acestora in evacuarea umana, Postdoctoral proiect, period: 2022-2023, director/postdoctoral fellow: Georgiana Bunea

Biotrickling filtration upgrade in the context of atmospheric protection and climate change (BIO-UP) / Upgradarea filtrarii prin biotrickling in contextul protectiei atmosferei si a schimbarilor climatice (BIO-UP), contract: PN-III-P2-2.1-PED-2019-1165, period: 2020-2022, director: Gabriela Soreanu

Biologically-inspired algorithms developed for modeling and optimizing complex chemical processes (BIA-CHEM) / Algoritmi de inspiratie biologica dezvoltati pentru modelarea si optimizarea unor procese chimice complexe (BIA-CHEM), contract: PN-III-P4-ID-PCE-2016-0322, no. 51/2017, Exploratory reseach project, period 2017-2019, budget: 847,443 RON, director: Silvia Curteanu (http://www.ascchemis.ro/PN_III_51)

Mentor: Framework for testing biologically-inspired algorithms (BIO-FRAM-TEST) / Framework pentru testarea algoritmilor de inspiratie biologica (BIO-FRAM-TEST), contract: PN-III-P1-1.1-PD-2016-1399, Postdoctoral proiect, period 2017-2019, director/postdoctoral fellow: Elena-Niculina Dragoi

Scientific leader: Software products based on artificial intelligence algorithms with applications in modelling and optimization of chemical systems (AISoftChim) / Produse software bazate pe algoritmi de inteligenta artificiala cu aplicatii in modelarea si optimizarea sistemelor chimice (AISoftChim), contract: PN-II-PT-PCCA-2011-32-0732, no. 23/2012, Collaborative project for applied research, period 2012-2016, budget: 1,580,081 RON, director: Silvia Curteanu

Modelling and automated control using artificial intelligence tools for applications in chemistry and process engineering (INTELCHIM) / Modelare si conducere automata utilizand instrumente ale inteligentei artificiale pentru aplicatii in chimie si inginerie de proces (INTELCHIM), PN II, partnerships in priority areas, PC, contract no. 71006/18.09.2007, period: 2007-2010, budget: 1,650,000 RON, director: Silvia Curteanu

Soft computing hybrid configurations with chemistry applications / Configuratii hibride soft computing cu aplicatii in chimie, PNII, exploratory research project, IDEI, code ID-592, contract no. 59 / 1.10.2007, period: 2007-2010, budget: 900,000 RON, director: Silvia Curteanu

Diagnosis of urban infrastructure vulnerability to natural disasters and integrated risk k management. Application for Iasi City (e-KnowRISKSAFE) / Diagnoza vulnerabilitatii infrastructurii urbane la dezastre naturale si k-managementul riscului integrat. Aplicatie pentru Municipiul Iasi (e-KnowRISKSAFE), PN II, partnerships in priority areas, PC, contract no. 31065/2007, period: 2007-2010, budget: 1,860,000 RON, director: Gabriela Maria Atanasiu

Research on seismic risk assessment and developing a conceptual and operational model for estimating losses using information systems (CERSIS) / Cercetari privind evaluarea riscului seismic si elaborarea unui model conceptual si functional pentru estimarea pierderilor utilizand sistemele informationale (CERSIS), PN II, partnerships in priority areas, PC, contract no. 31023/2007, period: 2007-2010, budget: 1,919,600 RON, director: Radu Vacareanu (Technical University of Civil Engineering Bucharest, Romania)

Artificial intelligence techniques applied to the processes of synthesis and complexation of functionalized polysiloxanes / Tehnici ale inteligentei artificiale aplicate proceselor de sinteza si complexare a polisiloxanilor functionalizati, CNCSIS contract no. 63 GR/2006, topic 10, code CNCSIS 225, period: 2006-2007, budget: 110,000 RON, director: Silvia Curteanu

Academic grid for complex applications / GRID Academic pentru aplicatii complexe, contract no. 74 - CEEX II03/31.07.2006, beneficiary MEC - INFOSOC, period: 2006-2008, budget: 1,500,000 RON, director: Mitica Craus

Multifunctional nanostructured silicon materials (NANOSIMAT) / Materiale siliconice nanostructurate multifunctionale (NANOSIMAT), CEEX contract no. 52/2006, MATNANTECH programme, subcontract 1, period: 2006-2008, budget: 1,250,000 RON, director: Maria Cazacu, TUIASI leader: Silvia Curteanu

Distributed dissemination system on a grid architecture, equipped with intelligent agents for automated construction and updating of the documentary fund and knowledge extraction tools / Sistem de informare distribuit pe o arhitectura grid, dotat cu agenti inteligenti pentru constructia si actualizarea automata a fondului documentar si cu instrumente de extragere de cunostinte, research contract CNCSIS code 575, topic 17, period: 2005-2006, budget: 126,000 RON, director: Mitica Craus

Prototype system for dynamic resource management in distributed mobile computing using intelligent agents / Prototip de sistem pentru gestiunea dinamica a resurselor distribuite in mobile computing folosind agenti inteligenti, CNCSIS AT project, topic 67, code 66/25.02.2005, period: 2005-2006, budget: 24,000 RON, director: Mihai Horia Zaharia

Management of Seismic Vulnerability of Built Urban Fund Using Spatial Information Infrastructure / Managementul vulnerabilitatii seismice a fondului urban construit utilizand Infrastructura de Informatii Spatiale (IIS), CEEX project no. 3202/2005, PD type, supporting postdoctoral programmes, UEFISCSU, period: 2005-2007, budget: 520,000 RON, director: Gabriela Maria Atanasiu, function in the project: postdoctoral research fellow

Nanostructured polymeric composite materials used in environmental monitoring (NANOPOL) / Materiale compozite nanostructurate polimerice cu utilizare in monitorizarea mediului (NANOPOL), subcontract: Modelling and optimization with neural networks and genetic algorithms / Modelare si optimizare cu retele neuronale si algoritmi genetici, CEEX contract 10/10.2005, MATNANTECH programme, subcontract 3, period: 2005-2008, budget: 1,000,000 RON, director: Gabriela Telipan, TUIASI leader: Silvia Curteanu

Viscometric behaviour modelling of binary liquid systems using neural networks / Modelarea comportarii viscozimetrice a sistemelor lichide binare cu ajutorul retelelor neuronale, beneficiary MEC, CNCSIS code 65, period: 2004, budget: 50,000,000 ROL, director: Gabriela Lisa

The prototype of an intelligent web GIS system for extracting knowledge from databases using intelligent agents / Prototipul unui sistem GIS web inteligent pentru extragerea cunostintelor din baze de date folosind agenti inteligenti, CNCSIS contract 66, topic 76, period: 2004, budget: 110,000,000 ROL, director: Mihai Horia Zaharia

Integrated software system for monitoring the legal regime of land – a tool for development decision making in agriculture, forestry, fisheries, hydrological and environmental areas / Sistem software integrat pentru monitorizarea regimului juridic al terenurilor - instrument pentru fundamentarea politicilor de dezvoltare in sectoarele agricol, silvic, piscicol, hidrologic si de protectia mediului, RELANSIN programme, priority projects PP6, partner P4 in contract no. 1933 / 15.09.2004, period: 2004, budget: subcontract 80,000,000 ROL, group leader: Mihai Horia Zaharia

Models of extracting knowledge from databases using grid technologies and intelligent agents / Modele de extragere de cunostinte in baze de date folosind tehnologii grid si agenti inteligenti, contract no. 139/07.09.2004, InfoSoc programme, sub-programme C6, category PF, period: 2004-2005, director: Mitica Craus

Using neural networks and genetic algorithms in polymerization reactions engineering. Applications to modelling and optimizing the synthesis of polysiloxanes / Utilizarea retelelor neuronale si a algoritmilor genetici in ingineria reactiilor de polimerizare. Aplicatii la modelarea si optimizarea sintezei polisiloxanilor, CERES contract no. 4-22/2004, beneficiary: Institute of Atomic Physics, Bucharest, Romania, period: 2004-2006, budget: 672,470,000 ROL, director: Silvia Curteanu

Multiphase polymer materials - biodegradable, biocompatible, bioactive, artificial motile systems - with applications in medicine and environmental protection / Materiale polimere multifazice - biodegradabile, biocompatibile, biologic active, sisteme motile artificiale - cu aplicatii in medicina si pentru asigurarea protectiei mediului, CERES contract no. 3-51/2003, beneficiary: Institute of Atomic Physics, Bucharest, Romania, period: 2003-2005, budget: 450,000,000 ROL, director: Bogdan Simionescu

Multidisciplinary research in the field of information technologies based on genetic algorithms, neural networks and fuzzy systems with applications to engineering and management / Cercetari multidisciplinare in domeniul tehnologiilor informationale bazate pe algoritmi genetici, retele neuronale si sisteme fuzzy cu aplicatii pentru inginerie si management, CERES contract no. 29/12.11.2002, beneficiary: Institute of Atomic Physics, Bucharest, Romania, period: 2002-2004, budget: 1,064,320,000 ROL, director: Octav Brudaru

Contributions to the radical polymerization of styrene by modelling, computer simulation and optimization / Contributii la studiul polimerizarii radicalice a stirenului prin modelare, simulare pe calculator si optimizare, CERES contract no. 47/15.10.2001, beneficiary: Institute of Atomic Physics, Bucharest, Romania, period: 2001-2004, budget: 800,000,000 ROL, director: Victor Bulacovschi

Lista de lucrări / Publication List

Articole și capitole de carte (selecție) / Papers and Book Chapters (Selection)

2025

Florin Leon (2025). A Survey of Brain-Inspired Mechanisms for Neuro-Symbolic Reasoning, Proceedings of the 1st International Workshop on Advanced Neuro-Symbolic Applications, 28th European Conference on Artificial Intelligence (ECAI 2025), Bologna, Italy, October 2025

Florin Leon (2025). Action Masking Methods for Safe Reinforcement Learning in a Non-Stationary Configurable Environment, Proceedings of the 29th International Conference on System Theory, Control and Computing (ICSTCC 2025), Cluj-Napoca, Romania, October 2025, pp. 535-540, https://doi.org/10.1109/icstcc66753.2025.11240265

Florin Leon (2025). A Survey of Compositionality Mechanisms in Neural Models in Support of Explainability, Proceedings of the 21st International Conference on Intelligent Computer Communication and Processing (ICCP 2025), Cluj-Napoca, Romania, October 2025

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