Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**BULINSKI Mircea**
Address(es)	
Telephone(s)	Mobile:
Fax(es)	
E-mail	mircea_bulinsky@yahoo.com
Nationality	Romanian
Date of birth	18 January 1961
Gender	Male

Work experience

Dates	Oct.1990 – present
Occupation or position held	Assistant Prof. (2001), Associate Prof. (2009)
Main activities and responsibilities	Teaching university courses, implementation and support for related laboratories, conducting research programs, academic activities
Name and address of employer	University of Bucharest (Faculty of Physiscs, Department "Departamentul de Fizică Teoretică, Matematici, Optică, Plasmă şi Laseri") Blvd. M. Kogălniceanu, nr. 36-46, sector 5, 050107 Bucharest
Type of business or sector	Higher education
Dates	1990 – 1991
Occupation or position held	Scientific researcher
Main activities and responsibilities	Research and development of LIDAR - YAG:Nd detection systems
Name and address of employer	National Institute for Laser, Plasma & Radiation Physics, Special Laser Devices Division, Str. Atomiştilor, Nr. 409 , PO Box MG-36, 077125, Măgurele, Bucharest, Romania
Type of business or sector	Scientific research
Dates	1986 - 1989
Occupation or position held	Professor of Physics
Main activities and responsibilities	Specific activities in middle school and high school teaching
Name and address of employer	"Şcoala cu clasele I-X", "Curcani"
Type of business or sector	Pre-university and secondary education

Education and training

Dates	April 1999
Title of qualification awarded	Ph. D. Diploma
Principal subjects/ skills covered	Physics, „Studies on detection and restoration of the optical fields"
Name and type of organization	University of Bucharest
Level in international classification	ISCED 6
Dates	1982 – 1986
Title of qualification awarded	Diploma – Physician
Principal subjects/ skills covered	Physics, „Optical Data Processing"
Name and type of organization	University of Bucharest
Level in national classification	ISCED 5
Dates	1974 – 1980

Title of qualification awarded	Baccalaureate in „Fine and decorative arts"
Principal subjects/ skills covered	Drawing, painting, interior design, monumental art
Name and type of organization	High School of Fine Arts „N. Tonitza" Bucharest
Level in national classification	ISCED 3

Personal skills and competences

Mother tongue(s) **Specify mother tongue** (if relevant add other mother tongue(s), see instructions)

Other language(s)

Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	C1		B2		C1
French	B2		A2		A1
Russian	B1		A2		A1

Social skills and competences	Member of „European Physical Society"; member al „Romanian Physical Society", member of „Association for Alternative Sciences" – Romania
Organisational skills and competences	Working and team building, communication and organization of activities - organizing international summer school "Econophysics and complexity (2005-2008), organizing Faculty of Physics from Bucharest University representation to: "Education Fair"; (2001-2016), "Reaserchers Night" (2009 - 2016); Faculty of Physics Conference (2001-2017)
Technical skills and competences	Computer simulation of complex processes (MatLab, LabVIEW, Mathematica), Software development (VisualBasic, VisualFox, Excel, VisulC + +, VisualJava), hardware and software design microcontroller (Z80, PIC), design of optical systems for detection and analysis, processing digital images and video, 3D modeling and animation
Computer skills and competences	MalLab, SciLab, Python, LabView, Mathematica, C++, M.S.Office, etc.
Artistic skills and competences	Drawing, painting, poetry, photography
Driving licence	Driving license „B"

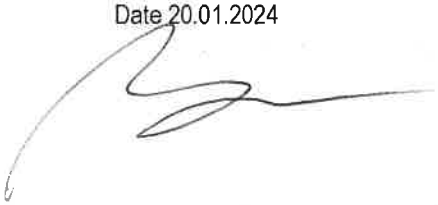
Additional information

Member of the organizing committees of the International Summer Schools on the topic „Econophysics and Complexity", edițiile I (Navodari, 2005), II (Sinaia, 2006) III (Sibiu, 2007), IV (Bucuresti, 2008), Publications and Research Contracts: 2 single author manuals; 4 co-author manuals; 1 monograph as sole author; 20 ISI publications; 14 non-ISI; 5 monographs as editor (e format with ISBN); 5 lessons invited to international conferences, summer schools; 9 studies published in extenso in the volumes of international scientific events; 23 national and international contracts as director, member of the action committee or scientific responsible; 11 university courses / laboratories, of which 9 are newly established;
As an activity for the benefit of the academic community: they are part of the Image Commission of the Faculty of Physics, a quality within which they contribute to the organization of the participation of the Faculty of Physics in the "Education Fair – University of Bucharest" (2003-2016), Member of the team organizing the annual events: "Annual Scientific Session of the Faculty of Physics - Bucharest" (2003-2021), "Science Show" (2009-2011), "Researchers' Night" (2013-2020); Children's University (2009-2016), National Physics Competition for students "Hands on Universe" (2013-2020); etc

Annexes

List of publications and research programs

Date 20.01.2024



Annexes - List of selected publications

Books: Ovidiu Toma, Doina Bejan, Marian Băzăvan, Iulian Ioniță, Mircea **Bulinski**, „Geometrical Optics, Practical Works, Exercises and Problems" Editura Universitatii Bucuresti (2021); •"Shapes and patterns in matter and fields: inter-related microscopic and macroscopic physical properties", in "On Form and Pattern", Bucureşti, Editura Academiei (2015) ; •Geometrical Optics, Mircea **Bulinski** , Editura Universitatii Bucuresti (2014); •Doina Bejan, Marian Băzăvan, Iulian Ioniță, Ovidiu Toma, Mircea **Bulinski**, Ion Gruia; "Lucrări practice de optică geometrică", Editura Univ. Bucuresti, 2013; •Modelare si Simulare – aplicaţii in OSPL, Mircea **Bulinski**, Editura Universitatii Bucuresti (2011); •Econofizica si Complexitate, M. **Bulinski**, Ed. Univ. Buc. 2007; Optica, St. Levai, M. **Bulinski**, O. Toma, Ed. Univ. Buc. 2005; •Optica - teorie, probleme, lucrări de laborator, St. Levai, M. **Bulinski**, O. Toma, Ed. Univ. Buc. 2002; •Spectroscopie şi laseri. aplicaţii, I. Iova, M. **Bulinski**, F. Iova, M. Băzăvanm, C. Biloiu, I. Gruia, Gh. Ilie, I. Winkler, Ed. Univ. Buc. 2001; • Ed. Carmen Costea, Mircea **Bulinski**, Econophysics and complexity – adding value beyound trening and mentoring (CD teaching support support – Summer School Bucharest - Romania), Editura Universitatii Bucuresti (2008); • Ed, Mircea **Bulinski**, Econophysics and complexity – science and education in a world of diversity: applications to the knowledge-based siciety (CD teaching support support – Summer School Sibiu - Romania), Editura Universitatii Bucuresti (2007) ; •Ed, Mircea **Bulinski**, Identity versus Diversity: Essays on the complexity of the living entity (workshop „Complexitatea intregului viu: identitae si diversitate", Bucuresti 2007), Editura Universitatii Bucuresti (2007) ; •Ed, Mircea **Bulinski**, Econophysics and complexity - alternative science bridging education, research and economics (CD teaching support support – Summer School Sinaia - Romania), Editura Universitatii Bucuresti (2006) ; •Ed, Mircea **Bulinski**, Emmanuel Haven, Econophysics and complexity – research of exellence between philosophical dreams and real applications (CD teaching support – Summer School Navodari - Romania), Editura Universitatii Bucuresti (2005)

Scientific articles published in journals listed in the ISI system: Bulinski, I.R. Andrei, S Simion, F Garoi, **M Bulinski**, ML Pascu, Optical cryptographic communications with non-identical chaotic laser systems, Romanian Reports in Physics, 75, pp408, 2023ş M. Metal Doped PVA Films for Opto-Electronics-Optical and Electronic Properties, an Overview. Molecules 2021, 26, 2886. doi.org/10.3390/molecules26102886; •C. Onea, I.R. Andrei, P.E. Sterian, M.L. Pascu, M. **Bulinski**, Numerical simulation of the chaotic multimode dynamics of a semiconductor laser optical coupled with two external cavities, U.P.B. Sci. Bull. Series A V, 2020, ISSN 1223-7027; •**M. Bulinski**, G. Moagăr-Poladian, Fourier-transform interference lithography, Romanian Reports in Physics, Vol. 68, No. 2, P. 713–724, 2016; C.M. Ticos, I.R. Andrei, M.L. Pascu and M. **Bulinski**, Experimental control of power dropouts by current modulation in a semiconductor laser with optical feedback, Phys. Scr. Vol. 83, No. 5 (2011) p; •I.R. Andrei, C.M. Ticos, M. **Bulinski**, M.L. Pascu, Chaotic behaviour in the emission of semiconductor lasers optically coupled with an external cavity, J. Optoelec. and Adv. Mat. Vol. 12, No. 1(2010), p63-67; •Elisa M., Grigorescu C,, Vasiliu I., **Bulinski** M., Kuncser V., Predoi D., Filoti G., Meghea A. Iftimie N., Giurginca M., Onose, C., Optical characterization of the phosphate glasses containing pair transition ions, Optical and Quantum Electronics 39 (4-6): 523-531 MAR 2007; •A. Emandi, C. Vasiliu, R. Georgescu, I. Iulian, M. **Bulinski**, Spectral studies of some Ni(II), Pd(II), Cu(II) azo-dye complexes in a polymeric matrix of polyvinil alchool, Rev. Chem. (Bucharest), 57, 11, pp. 1098-1104 (2006) ; •C. M. Ticos, M. **Bulinski**, R. Andrei, M. L. Pascu, Power drop-out control by optical phase modulation in a chaotic semiconductor laser, JOSA B, Vol. 23, Issue 12 (2006), pp. 2486-2493; •Obreja, P, Cristea, D, Budianu, E, Rebigan, R, Kuncser, V, **Bulinski**, M, Filoti, G, Effect of dopant on the physical properties of polymer films for microphotonics, PROGRESS IN SOLID STATE CHEMISTRY, 34 (2-4), pp. 103-109, (2006) ; •V.Kuncser, M.**Bulinski**, S.Krautwald, H.Franke, F.E.Wagner, D.Cristea, P.Palade, C.Plapcianu, G.Filoti, Optical and Electronic Proprieties of (Fe+Sb):PVA for Real Time Holography, J. Optoelec. and Adv. Mat. Vol. 8, No. 3(2006), p1225-1229; •M.Elisa, C. Grigorescu, C. Vasiliu, M.Mitrea, M.**Bulinski**, V.Kuncser, D. Predoi, G.Filoti, A. Meghea, N. Iftimie, M. Giurginca, Optical and electronic properties of the aluminophosphate glasses doped with 3d- transition metal ions, Reviews on Advanced Materials Science 10 (4) 367-374 (2005) ; •V. Kuncser, M. Valeanu, F. Lifei, D. Predoi, A. Jianu, W. Kappel, M. Codescu, E. Patroi, I. Pasuk, M.**Bulinski** and G. Filoti, Micro-structure and magnetic properties of Fe-Cu nanocomposites for anisotropic permanent magnets, Journal of Alloys and Compound 395(1-2) 1-6 (2005) ; •Mircea **Bulinski**, Victor Kuncser, Carmen Plapcianu, Stefan Krautwald, Hilmar Franke, P Rotaru and George Filoti, Optical and electronic properties of polyvinyl alcohol doped with pairs of mixed valence metal ions, *J. Phys. D: Appl. Phys.* 37 (2004) 2437-2441; •M. **Bulinski**, M. L. Pascu, I. R. Andrei., Phase synchronization and coding chaos with semiconductor lasers, J. Optoelec. and Adv. Mat. Vol. 6, No. 1(2004), p77-86; •Mircea **Bulinski**, Victor Kuncser, Dana Cristea, Carmen Plapcianu, Stefan Krautwald, Hilmar Frank, F.E.Wagner, G.Filoti, Optical and electronic proprieties of metal doped polymers for integrated optics, J. Optoelec. and Adv. Mat. Vol. 5, No. 1(2003), p331-335; •Gabriel Moagar-Poladin, Mircea **Bulinski**, Optical reconfigurable neuron by using the transverse Pockels effect, J. Optoelec. and Adv. Mat. Vol 4, No. 4, pp.929-936(2002)

Invited lessons to international conferences, workshops, summer schools, scientific seminars: • M. **Bulinski**, Chaotic behaviour and control of a semiconductor laser, International Student Workshop on Laser Applications 2010 (ISWLA10) - Bran – Romania 2010; •M. **Bulinski**, Behrens and Feichtinger model expansion – a simple analyze, Summer School "Econophysiuscs and Complexity - III" Sibiu – Romania 2007) ; •M. **Bulinski**, , Chaos in dynamical systems – introduction, Summer School "Econophysiuscs and Complexity - II" Sinaia – Romania 2006) ; •M. **Bulinski**, Controlling the chaos in lasers physics and econophysics, Summer School "Econophysiuscs and Complexity - I" Navodari – Romania 2005) ; •M. **Bulinski**, V. Kuncser, I. Iova, A. Belea, H. Franke, G. Filoti, Mixed valence metal ion doped PVA as a potential material for the real time holography SPIE – 4068-03 (2000) pp.17-25, Optical International Conference - ROMOPTO 2000 Bucuresti

Studies published in extenso in the volumes of internationally and national scientific manifestations recognized:

I.R. Andrei, C. Onea, M.L. Pascu, M. Bulinski, Numerical model and simulation of the multimode visible emission of a chaotic laser device, The 15th Chaotic Modelling & Simulation International Conference (CHAOS-2022), virtual participation, Athens, Greece, June 14 - 17, 2022; •High resolution optical system for the magnetic characterization of thin films by longitudinal magneto-optic Kerr effect, Iulian Ionita, Mircea **Bulinski**; Optics and Photonics 2017, San Diego (USA) 6-10 august 2017, SPIE International Conference; •Ionut R. Andrei, Catalin M. Ticos, Mircea **Bulinski**, Mihail L. Pascu, *Chaotic behaviour of the semiconductors laser emission cupled with a external cavity;* International Conference "Micro-to Nano-Photonics II - ROMOPTO 2009", August 31 – Septembrie 3, Sibiu, Romania; •Mircea **Bulinski**, *Econofizica realizare interdisciplinară pentru învăţământ şi cercetare*, „Inovare, Competitivitate şi Etică în Afaceri", Conferinţa cu participare internaţională Universitatea Româno-Americană, Bucureşti (2008) Ed. Universitară, Bucureşti 2008, pp239-255; •Beniamin Cotigaru, Viorel Petrescu, Mircea **Bulinski**, Dorin Groapă, Octavian Cristea, *Interdisciplinaritatea, imperativ al valorificării cunoaşterii spre economia durabilă*, Conferinţa cu participare internaţională „Inovare, Competitivitate şi Etică în Afaceri", Universitatea Româno-Americană, Bucureşti (2008), Ed. Universitară, Bucureşti 2008, pp179-201; •M. **Bulinski**, Catalin M. Ticos, I. R. Andrei, M.N phase synchronization of LFF in an chaotic ECSL system, SPIE, Volume 6603, pp. 660329 (2007);

Experience in international / national research programs: Handle with Science HSciRO: EUROPEAN RESEARCHERS' NIGHT (H2020-MSCA-NIGHT-2018-2020, Marie Sklodowska-Curie COFUND), Responsabil ştiinţific din partea partenerului P4 din consorţiu; • SCIENTIX- comunitatea pentru educaţie în domeniul ştiinţelor din Europa. FP7 programme – project Scientix 2 (Grant agreement N. 337250) - membru in echipa de implementare; •2016-2018 ERIS - Exploration of Research results In School practice - Project ERASMUS - membru in echipa de implementare; •RoTalkScience: EUROPEAN RESEARCHERS' NIGHT (H2020-MSCA-NIGHT-2014-2015, Marie Sklodowska-Curie COFUND), Responsabil ştiinţific din partea partenerului P4 din consorţiu; • RoTalkScience: EUROPEAN RESEARCHERS' NIGHT (FP7-PEOPLE-2013-NIGHT, Marie Sklodowska-Curie COFUND), Responsabil ştiinţific din partea partenerului P4 din consorţiu; • "Physics of Competition and Conflicts - COST MP0801" - membru in Comitetul de Management al Acţiunii (2008-2011); •Efficient Lighting for the 21st Century, European Concerted Research Action designated as COST 529 - membru in Comitetul de Management al Acţiunii – Romania (coordonator retea nationala) (2002-2006); •Physics of Risk, European Concerted Research Action designated as COST P10, membru in Comitetul de Management al Acţiunii – Romania (coordonator retea nationala) (2003-2007); 2014-2018:

Proprietati opto-electronice ale polimerilor dopati cu ioni metalici, Programul CNCSIS - 37116/2000, Director de proiect in calitate de coordonator (2000-2001); •Noi compusi organo-metalici; Studiul proprietatilor opto-electronice, Programul CNCSIS - nr. 33618/2002, Director de proiect in calitate de coordonator (2000-2004); Tehnologie haotica pentru testarea metodelor şi platformelor utilizate in sistemele de criptare, PNCDI III CTECrypt nr. 420PED/2020, Responsabil stiintific din partea partenerului P1 din consorţiu (2020-2022); •95PED/2017-2018; Metoda magneto-optica de investigare a filmelor magnetice microstructurate. Responsabil ştiinţific din partea partenerului P1 din consorţiu;•Accelerarea de electroni in plasma produsa de laser de putere la GeV, E06/2014 Program Capacitati-RO-CERN, Responsabil stiintific din partea partenerului P3 din consorţiu (2014-2016); •Controlul si

sincronizarea laserilor cu semiconductori haotici prin tehnici de modulare optica, electrica si mecanica, - 3943 PNCDII Responsabil stiintific din partea partenerului P1 din consorţiu (2008-2011); •Aplicaţiile tehnologiilor de vârf pe bază de structuri de tip MEMS şi efecte optice neliniare în măsurarea parametrilor curentului electric pe liniile de înaltă tensiune, 31 PNCDI/2007, Responsabil stiintific din partea partenerului P2 din consorţiu (2007-2010); •Promovarea instrumentelor si tehnicilor de econofizica si complexitate la dezvoltarea durabila a societatii bazate pe cunoastere, la diminuarea riscului si rezolvarea crizelor, 08CEEX3/07.09.2005 (2005-2007), Responsabil stiintific din partea partenerului P2 din consortiu; •Microstructuri poli-compozite emiţătoare şi modulatoare de lumină - proprietăţi electro-optice, 44CEEX1/10.10.2005, Responsabil stiintific din partea partenerului P2 din consortiu (2005-2008); •Materiale Neconvenţionale pentru Microtehnologie – Cercetare şi Experimentare Microstructuri pe bază de Elastomeri pentru Aplicaţii în Domeniul Microsistemelor, Programul 15CEEX, Responsabil stiintific din partea partenerului P1 din consortiu (2005-2007) ; •Unitate de procesare optica analogica a informaţiei de tip imagine, Programul CEEX Nr.139103/2006 (2006-2008), Responsabil stiintific din partea partenerului P1 din consortiu; •Econofizica abordarea fenomenelor economice folosind analiza seriilor temporale, modelarea si controlul haosului deterministic in modelele economice cu aplicatii in domeniul pietei competitive si al sectorului bancar, Programul CERES-2002 Nr. 4-260/02.12.2004 (2004-2006), Responsabil stiintific din partea partenerului P1 din consortiu; •Studiul emisiei luminoase haotice a diodelor laser in cavitate extinsa si folosirea cuplajului sistemelor haotice in codificarea informatiei pe purtatoare optica, Programul CERES-2002 Nr. 81/11.11.2002 (2003-2005), Responsabil stiintific din partea partenerului P1 din consortiu; •Neuron optic reconfigurabil – cercetare, experimentare demonstrator şi evaluare parametri funcţionali Programul MATNANTECH-2001, Nr. 631/15.11.2001, Responsabil stiintific din partea partenerului P1 din consortiu (2001-2003);

Date 20.01.2024