



Curriculum vitae Europass



Informații personale

Nume / Prenume **Iantovics/ Barna**
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Naționalitate(-tăți) Maghiară
Data nașterii 22.12.1973
Sex Masculin

Locul de muncă vizat / Domeniul ocupațional

(rubrică facultativă, vezi instrucțiunile)

Experiența profesională

Perioada 1999 – prezent
Departamentul de Informatică, Facultatea de Științe și Litere, Universitatea Petru Maior

Funcția sau postul ocupat În prezent Lector universitar doctor

Activități și responsabilități principale

- Predarea pe parcursul anilor a cursurilor la disciplinele: Agenți inteligenți și aplicații; Agenți Inteligenți Cooperativi; Baze de Date; Sisteme de Gestiune a Bazelor de Date; Baze de Date Distribuite. Predarea laboratoarelor de Structuri de date și algoritmi. În trecut predarea laboratoarelor la disciplinele: Inteligență Artificială; Programare; Birotică; Bazele Informaticii; Criptografie; Tehnologii Informaționale; Informatică Aplicată; Proiect Individual Informatică, Arhitectura Sistemelor de Calcul; Baze de date; Sisteme de Gestiune a Bazelor de Date etc.. În trecut predarea Cursurilor la disciplinele: Inteligență Artificială; Birotică; Bazele Informaticii; Tehnologii Informaționale; Informatică Aplicată, Sisteme Expert etc.
- Cercetare: lucrări științifice, organizări de conferințe științifice, editări de volume științifice, editări de ediții speciale de jurnale, participări la proiecte de cercetare în calitate de director de proiect etc.

Numele și adresa angajatorului Universitatea Petru Maior
Str. Nicolae Iorga, Nr.1, Cod poștal: 540088, Târgu Mureș, România

Tipul activității sau sectorul de activitate Invățământ universitar, Cercetare

Perioada 1998 – 1999

Funcția sau postul ocupat Profesor de Matematică și Informatică

Activități și responsabilități principale

- Predare. Discipline de matematică
- Predare. Discipline de informatică

Numele și adresa angajatorului Universitatea Dimitrie Cantemir,
Str. Bodoni Sandor, Nr. 3-5, Târgu Mureș, Jud. Mureș, România

Educație și formare

Perioada	2000-2007
Calificarea / diploma obținută	Doctor / Doctor in Informatică distincția „cum laude”
Disciplinele principale studiate / competențe profesionale dobândite	Discipline din domeniul Inteligenței Artificiale: Sisteme Bazate pe Agenți, Sisteme Expert, Sisteme Bazate pe Agenți aplicate în domeniul medical, Metode de Inspirație Biologică
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Babeș Bolyai din Cluj Napoca
Nivelul în clasificarea națională sau internațională	
Perioada	1997 – 1998
Calificarea / diploma obținută	Masterat în Matematică și Informatică/ Diplomă de Studii aprofundate „Modele Matematice și Produse Software” - media 9.87, lucrarea de disertație media 10
Disciplinele principale studiate / competențe profesionale dobândite	Aplicații ale geometriei în fizică, biologie, geometrie computațională (2 semestre); Sisteme dinamice; Teoria stabilității, bifurcației, catastrofe; Funcții complexe și aplicații; Statistică, procese statistice și aplicații; Technici de optimizare combinatorică; Control optimal; Produse Software / Informatică și Matematică: Dezvoltare de modele matematice și implementarea lor practica. Produse software specifice.
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Transilvania din Brașov
Perioada	1992-1997 (studii de lungă durată – forma de învățământ zi)
Calificarea / diploma obținută	Licențiat în Matematică și Informatică
Disciplinele principale studiate / competențe profesionale dobândite	Un număr mare de discipline cu precădere de Informatică și Matematică (5 ani de studiu)
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Transilvania din Brașov
Perioada	1988 – 1992
Calificarea / diploma obținută	Bacalaureat Secția: Electronist TC
Numele și tipul instituției de învățământ / furnizorului de formare	Liceul Electromureș – Târgu Mureș,

Aptitudini și competențe personale

Limba(i) maternă(e)	Română, Maghiară
Limba(i) străină(e) cunoscută(e)	

Autoevaluare
Nivel european (*)

Engleza

Franceza

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă	
C1	Utilizator experimentat	C1	Utilizator experimentat	C1	Utilizator experimentat	C1	Utilizator experimentat	C1	Utilizator experimentat
B1	Utilizator independent	B1	Utilizator independent	A2	Utilizator elementar	A2	Utilizator elementar	A2	Utilizator elementar

(*) [Nivelul Cadrului European Comun de Referință Pentru Limbi Străine](#)

Competențe și abilități sociale Bună capacitate de comunicare cu studenții, competență dobândită prin predarea începând din anul 1998 în mediul academic. Capacitate de comunicare în domeniul științific cu oameni de știință, competență dobândită prin participarea la numeroase conferințe științifice naționale (11 prezentări) și internaționale în țara și străintate (33 prezentări) și prezentari în calitate de invitat special (2 lucrari). Adaptarea la diferite condiții de lucru în domeniul științific.

Competențe și aptitudini organizatorice Coordonarea cercetării, competență obținută prin: organizarea de conferințe și secțiuni de conferințe în țară și în străinătate; membru în numeroase comitete de comitete de conferințe științifice internaționale dintre care majoritatea în străintate (Orlando, Florida, SUA; Toulouse, Franta; Dresden, Germania; St.Julian's, Malta; Seoul, Korea; Romania; Beijing, China; Szeged, Hungary; Leicester, United Kingdom; Gyeongju, Korea); Editor la jurnale internaționale (3 in Asia); referent științific la jurnale internaționale (4 - dintre care 2 în străintate); referent la edituri recunoscute CNCSIS (1); Membru edituri internaționale (1 – Canada); referent conferințe internaționale în străintate (5 conferințe - Wuhan, China; Corfu, Greece; Orlando, Florida) Expert evaluator internațional National Science Fund of Bulgaria (2008 - 2010); membru în comitete de organizare a mai multor conferințe internaționale.

Competențe și aptitudini tehnice Toate competențele necesare utilizării calculatorului: licență (informatică și matematică), studii aprofundate (informatică și matematică), doctorat în informatică

Competențe și aptitudini de utilizare a calculatorului

Competențe și aptitudini artistice

Alte competențe și aptitudini

Permis(e) de conducere

Informații suplimentare

Referinte

- 1.Academician prof. univ. dr. Florin Gheorghe Filip, Academia Română (ffilip@acad.ro)
- 2.Prof. univ. dr. Dan Dumitrescu, Universitatea Babeș Bolyai, Cluj Napoca (ddumitr@cs.ubbcluj.ro)
- 3.Prof. univ. dr. Kazumi Nakamatsu, University of Hyogo, Japan (nakamatu@pf7.so-net.ne.jp)
- 4.Prof. univ. dr. Cyrille Bertelle, Le Havre University, France (cyrille.bertelle@gmail.com)
- 5.Prof. Dr. Roumen Kountchev, Technical University of Sofia, Bulgaria (rkountch@tu-sofia.bg)
- 6.Prof. Dr. Flornetin Smarandache, SUA (fsmarandache@yahoo.com)

Anexe

Data
02.12.2015

Semnatura
Barna IANTOVICS

Publications – short list

- B. Iantovics, *Problem Solving Using Evolutionary Mobile Agents*. Proceedings of 9th National Conference of the Romanian Mathematical Society. M. Megan (Ed.), Vest University Press, Timișoara, 2005, pp.408-420.
- B. Iantovics, *A New Protocol of Task Distribution*. Proceedings of the Symposium "Colocviul Academic Clujean de Informatică". M. Frențiu (Ed.), Babeș-Bolyai University Press, Cluj-Napoca, 2003, pp.127-137.
- B. Iantovics, *Evolutionary Problems Solving in Networks*. Proceedings of the Symposium "Colocviul Academic Clujean de Informatică". M. Frențiu (Ed.), Babeș-Bolyai University Press, Cluj-Napoca, 2005, pp.39-45.
- B. Iantovics, *Adaptive Multiagent Systems for Cooperative Problem Solving*. Proceedings of the Seminar on Computer Science. M. Frențiu (Ed.), Babeș-Bolyai University Press, Cluj-Napoca, 2002, pp.134-149.
- B. Iantovics, *Un Nou Sistem Cooperativ de Diagnosticare Medicală*. Proceedings of the National Conference "Zilele Academice Arădene ediția a XV-a". Studia Universitatis "Vasile Goldiș", Seria-Științe exacte, Arad, 15, 2005, pp.16-22.
- B. Iantovics, *Task Allocation in Distributed Multiagent Systems*. Proceedings of the Symposium "Colocviul Academic Clujean de Informatică". M. Frențiu (Ed.), Babeș-Bolyai University Press, Cluj-Napoca, 2005, 45-51.
- B. Iantovics, *Medical Diagnosis Systems*. Proceedings of the Symposium "Colocviul Academic Clujean de Informatică". M. Frențiu (Ed.), Babeș-Bolyai University Press, Cluj-Napoca, 2005, pp.33-39.
- B. Iantovics, *Intelligent Mobile Agents*. Proceedings of the Symposium "Zilele Academice Clujene". M. Frențiu (Ed.), Babeș-Bolyai University Press, Cluj-Napoca, 2004, pp.67-74.
- D. Dumitrescu, B. Iantovics, C. Florea, *Multiagent Systems: A New Task Allocation Protocol and Evolutionary Search for Equilibrium*. Proceedings of the Seminar on Computer Science. M. Frențiu (Ed.), Babeș-Bolyai University Press, Cluj-Napoca, 2002, pp.119-133.
- B. Iantovics, *A Novel Medical Diagnosis System*. Proceedings of the International Conference: European Conference on Complex Systems (ECCS 2005). P. Bourguine, F. Kepes, M. Schoenauer (Eds.), Publisher i6doc.com, La librairie des documents scientifiques, Paris, 2005, pp.961-962.
- B. Iantovics, *A New Intelligent Mobile Multiagent System*. Proceedings of the IEEE International Workshop on Soft Computing Applications (IEEE-SOFA 2005). Szeged-Hungary and Arad-Romania, IEEE Computer Society Press, IEEE Hungarian Section, 2005, pp.153-159.
- B. Iantovics, *A Novel Diagnosis System Specialized in Difficult Medical Diagnosis Problems Solving*. Proceedings of the Emergent Properties in Natural and Artificial Dynamical Systems an International Workshop within European Conference on Complex Systems. M.A. Aziz-Alaoui, C. Bertelle (Eds.), Le Havre University Press, Paris, 2005, pp.107-112.
- B. Iantovics, *The Intelligence of the Expert System Agents*. Proceedings of the 2nd International Conference on Economics, Law and Management. Petru Maior University Press, Tg. Mureș, 2006, pp.91-101.
- B. Iantovics, *Evolutionary Reorganization of the Centralized Multiagent Systems*. Proceedings of the 2nd International Conference on Economics, Law and Management. Petru Maior University Press, Tg. Mureș, 2006, pp.139-153.
- B. Iantovics, *Evolutionary Mobile Agents*. Proceedings of the International Conference European Integration between Tradition and Modernity. Petru Maior University Press, Tg. Mureș, 2005, pp.761-769.
- B. Iantovics, *Security Issues of the Mobile Multiagent Systems*. Proceedings of the International Conference European Integration between Tradition and Modernity. Petru Maior University Press, Tg. Mureș, 2005, pp.770-779.
- B. Iantovics, *Cooperative Medical Diagnosis Systems*. Proceedings of the International Conference Interdisciplinarity in Engineering. Petru Maior University Press, Tg. Mureș, 2005, pp.669-674.
- B. Iantovics, *Difficult Problems Solving Using Multiagent Systems*. Proceedings of the International Conference Interdisciplinarity in Engineering. Petru Maior University Press, Tg. Mureș, 2005, pp.675-678.
- B. Iantovics, *Adaptive multiagent systems with evolutionary reorganization capability*. International Conference on Theory and Applications in Mathematics and Informatics. Alba Iulia, 2007. Daniel Breaz, Nicoleta Breaz, Dorin Wainberg (eds.) Aeternitas, Publishing House, Alba Iulia, 2008, pp.21-42.
- B. Iantovics, *The ICMA Knowledge-Based Mobile Agents*. International Conference on Theory and Applications in Mathematics and Informatics. Alba Iulia, 2007, Daniel Breaz, Nicoleta Breaz, Dorin Wainberg (eds.) Aeternitas, Publishing House, Alba Iulia, 2008, pp.9-20.
- B. Iantovics, *The Intelligence of the ICMAE Agents*. International Conference Interdisciplinarity in Engineering, Petru Maior University Press, Tg. Mureș, 2007, pp.VI-8-1 - VI-8-6.
- B. Iantovics, *Medical multiagent systems*. International Conference Interdisciplinarity in Engineering, Petru Maior University Press, Tg. Mureș, 2007, pp.VI-9-1 - VI-9-6
- B. Iantovics, *Hybrid Expert System Agents*. International Conference European Integration between Tradition and Modernity, Petru Maior University Press, Tg. Mureș, 2007, pp.683-689
- B. Iantovics, *The ICMA Agents Intelligence*. International Conference European Integration between Tradition and Modernity, Petru Maior University Press, Tg. Mureș, 2007, pp.699-708

- B. Iantovics, *The CMDS Medical Diagnosis System*. 4th Workshop on Agents for Complex Systems in conjunction with 9th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, Timisoara, IaAT Technical report 07-06, 2007.
- B. Iantovics, *Cooperative Medical Diagnoses Elaboration by Physicians and Artificial Agents*. Proceedings of the Emergent Properties in Natural and Artificial Complex Systems A Satellite Conference within the 4th European Conference on Complex Systems, M. A. Aziz-Alaoui, Cyrille Bertelle, Michel Cotsaftis, Gérard H.E. Duchamp (Eds.), Dresden, Germany, 2007, Le Havre University Press, Paris, pp. 181-205
- B. Iantovics. *Intelligent Evolutionary Multiagent Systems*. Proceedings of the Bio-Inspired Computational Methods Used for Difficult Problems Solving. Development of Intelligent and Complex Systems, November 5-7, 2008 Tg. Mures, Romania, Editors: Călin Enăchescu, Barna Iantovics, Florin Gheorghe Filip, Editura Universității Petru Maior, Tîrgu Mureș, Romania, 2008
- B. Crainicu, B. Iantovics. *On A New RC4 Key Scheduling Algorithm*. Proceedings of the Complexity and Intelligence of the Artificial and Natural Complex Systems. Medical Applications of the Complex Systems. Biomedical Computing. November 8-10, 2008 Tg. Mures, Romania, Barna Iantovics, Călin Enăchescu, Florin Gheorghe Filip (Eds.), Editura Universității Petru Maior, Romania
- B. Iantovics, B. Crainicu, *Security Measures in Mobile Multiagent Systems*. Proceedings of the Complexity and Intelligence of the Artificial and Natural Complex Systems. Medical Applications of the Complex Systems. Biomedical Computing. November 8-10, 2008 Tg. Mures, Romania, Barna Iantovics, Călin Enăchescu, Florin Gheorghe Filip (Eds.), Editura Universității Petru Maior, Tîrgu Mureș, Romania, Str. Nicolae Iorga,
- D. Hobby, B. Iantovics and F.F. Nichita. On the (Colored) Yang-Baxter Equation, Proceedings of the International Symposium on Understanding Intelligent and Complex systems - UICS 2009, 22-23 October 2009, Petru Maior University, Targu Mures.
- B. Iantovics, F.F. Nichita, D. Hobby, Knowledge-based mobile agents, IETM 2009 22-23 October 2009 Petru Maior University, Targu Mures. *Proceedings of the International Conference "European Integration between Tradition and Modernity"*, 3-rd edition, 2009, ISSN 1844-2048, Ed. Universitatii "Petru Maior", 2009. pp. 1061 – 1069
- B. Iantovics. *A Novel Medical Diagnosis System*. Proceedings of the International Conference: European Conference on Complex Systems (ECCS 2005). P. Bourguine, F. Kepes, M. Schoenauer (Eds.), Paris, 2005, pp.165-166. (abstract)
- B. Iantovics, Medical Diagnosis Systems, International Conference Several Aspects of Biology, Chemistry, Informatics, Mathematics and Physics, Oradea, 2005, pp.5-6 (abstract).
- B. Iantovics, A Novel Medical Diagnosis System. Abstracts Book of the European Conference on Complex Systems. P. Bourguine, F. Kepes, M. Schoenauer (Eds.), Paris, 2005, p.165. (abstract)
- B. Iantovics. *A Novel Medical Diagnosis System*. 4-th International Conference on Theory and Applications in Mathematics and Informatics, Nicoleta Breaz, Dorin Wainberg, Alba Iulia, 2005, p.50 (abstract)
- B. Iantovics. *A Novel Mobile Agent Architecture*. 4-th International Conference on Theory and Applications in Mathematics and Informatics. Nicoleta Breaz, Dorin Wainberg, Alba Iulia, 2005, p.51. (abstract)
- B. Iantovics, *Adaptive multiagent systems with evolutionary reorganization capability*. International Conference on Theory and Applications in Mathematics and Informatics. Nicoleta Breaz, Daniel Breaz, Dorin Wainberg, (Eds). Alba Iulia, 2007, p.47 (abstract)
- B. Iantovics, *The ICMA Knowledge-Based Mobile Agents*. International Conference on Theory and Applications in Mathematics and Informatics. Nicoleta Breaz, Daniel Breaz, Dorin Wainberg, Alba Iulia, 2007, p.48 (abstract)
- E. Mircea, Silvia Imre, Emese Sipos, Teodora Balaci, Veronica Avrigeanu, Barna Iantovics, Gabriel Hancu, The Influence Of Stress Conditions On The Stability Of Pentoxifylline From Controlled Release Tablets Obtained By Wet Granulation Method, Acta Medica Marisensis, Volume 56, Supplement 2, 2010, ISSN 2068 – 3324, Page 87 (abstract)
- B. Iantovics, *Agents with Learning Capabilities*. Scientific Bulletin, Petru Maior University, Tg. Mureș, XVII, 2004, pp.253-258.
- B. Iantovics, *Intelligent Agents*. Scientific Bulletin, Petru Maior University, Tg. Mureș, XVII, 2004. pp.265-271.
- B. Iantovics, *Intelligent Hybrid Agents*. Scientific Bulletin, Petru Maior University, Tg. Mureș, XVII, 2004, pp.259-263.
- B. Iantovics, *Evolutionary Learning Techniques*. Scientific Bulletin, Petru Maior University, Tg. Mureș, XV-XVI, 2002-2003, pp.121-124.
- B. Iantovics, *The Intelligence of the Multiagent Systems*. Scientific Bulletin, Petru Maior University, Tg. Mureș, XV-XVI, 2002-2003, pp.125-129.
- B. Iantovics, *Problems Solving Using Assistant Agents*. Scientific Bulletin of the Petru Maior University, Tg. Mureș, XVIII, 2006, pp.173-179.
- B. Iantovics, *The CMDS Multiagent System Intelligence*, Scientific Bulletin of the „Petru Maior” University of Targu Mures, Vol. 3 (XX) – New Series, 2007, ISSN 1841-9267, pp. 95-104
- B. Iantovics, *A Novel Mobile Agent Architecture*. Proceedings of the 4-th International Conference on Theory and Applications in Mathematics and Informatics. Journal: *Acta Universitatis Apulensis*, Alba Iulia, 11, 2006, pp.295-306.
- B. Iantovics, *A Novel Medical Diagnosis System*. Proceedings of the 4-th International Conference on Theory and Applications in Mathematics and Informatics. Journal: *Acta Universitatis Apulensis*, Alba Iulia, 10, 2005, pp.315-330. ISSN 1582-5329
- Iantovics, B. Knowledge-based mobile agents. *Acta Universitatis Apulensis*. 17, 2009, pp.13-27
- B. Iantovics, Intelligent Agent-based Medical Systems, Scientific Studies and Research Series in Mathematics and Informatics, Vol. 19 (2009), No. 2, 289-300

- B. Iantovics, Cognitive Medical Multiagent Systems. BRAIN. Broad Research in Artificial Intelligence and Neuroscience, Vol.1, No.1, January 2010, pp. 12-21. ISSN 2067-3957
- C.-B. Zamfirescu, L. Duță, B. Iantovics. The Cognitive Complexity in Modelling the Group Decision Process, B. Iantovics, D. Radoiu, M. Marusteri, Matthias Dehmer (Eds.). Special Issue on Complexity in Sciences and Artificial Intelligence, July, 2010, pp 66-76.
- D. Hobby, B. Iantovics, F.F. Nichita. On the (colored) Yang-Baxter Equation, B. Iantovics, D. Radoiu, M. Marusteri, Matthias Dehmer (Eds.). Special Issue on Complexity in Sciences and Artificial Intelligence, July, 2010, (aproximativ 200 pagini) October, 2010, Journal BRAIN. Broad Research in Artificial Intelligence and Neuroscience, pp. 33-39.
- Roumen Kountchev, Barna Iantovics, Vladimir Todorov, Roumiana Kountcheva, Access Management in Medical Image Databases Based on New Format and Contents Protection with Inverse Pyramid Decomposition Journal BRAIN. Broad Research in Artificial Intelligence and Neuroscience, Volume 2, Issue 2, May-June 2011, pp 5-17
- R. Kountchev, B. Iantovics, R. Kountcheva. Hierarchical Access Control and Content Protection in Medical Image Archives, Based on Inverse Pyramid Decomposition Proc. of the 10th WSEAS Intern. Conf. on Signal Processing, Robotics and Automation (ISPRA'11), University of Cambridge, Cambridge, UK, Feb. 20-22, 2011, pp. 391-396.
- B. Iantovics, *Agent-Based Medical Diagnosis Systems*, Computing and Informatics (Formerly: Computers and Artificial Intelligence), Slovak Academy of Sciences, Bratislava, Volume 27, Number 4, 2008. pp.593-625. (ISI Journal)
- B. Iantovics, Marius Marusteri, Roumen Kountchev, Constantin-Bala Zamfirescu, Bogdan Crainicu. Intelligent CMDS Medical Agents with learning Capacity, Proceedings of the International Conference on Virtual learning. ICVL 2010, October 29-October 31, 2010, Targu Mures, Romania, Editors. Marin Vlada, Grigore Albeanu, Dorin Mircea Popovici, Bucharest University Press, pp.325-331 (ISI Conference Proceedings Citation Index)
- R. Kounchev, B. Iantovics, R. Kountcheva. Efficient Management of Medical Image Databases Based on Inverse Pyramid Decomposition. Proceedings of the International Conference on Virtual learning. ICVL 2010, October 29-October 31, 2010, Targu Mures, Romania, Editors. Marin Vlada, Grigore Albeanu, Dorin Mircea Popovici, Bucharest University Press, ISSN 1844-8933, pp. 395-402 (ISI Conference Proceedings Citation Index)
- B. Iantovics. *A New Task Allocation Protocol in Distributed Multiagent Systems*. Proceedings of 4th International Conference in Education/Training and Information/ Communication Technologies, C. Enăchescu, D. Rădoiu, O. Adjei (Eds.), Petru Maior University Press, Tg. Mureș, 2005, pp.1-6. (ISI Conference Proceedings Citation Index)
- B. Iantovics. *Evolutionary Reorganization of the Multiagent Systems*. Proceedings of the 4th International Conference in Education/Training and Information/Communication Technologies. C. Enăchescu, D. Rădoiu, O. Adjei (Eds.), Petru Maior University Press, Tg. Mureș, 2005, pp.7-12. (ISI Conference Proceedings Citation Index)
- B. Iantovics, *CMDS Medical Diagnosis System*. Symbolic and Numeric Algorithms for Scientific Computing, IEEE Computer Society Press, Washington, DC, USA 2007, pp. 246-253. indexări în diferite baze de date internaționale). DOI Bookmark: <http://doi.ieeeecomputersociety.org/10.1109/SYNASC.2007.40> ISBN:0-7695-3078-8 (ISI Conference Proceedings Citation Index)
- B. Iantovics, *Problem Solving Using Evolutionary Multiagent Systems*, Călin Enăchescu, Barna Iantovics, Florin Filip (ed.) *Advanced Bio-Inspired Computational Methods*, Editura Universității "Petru Maior", 2008, ISBN 978-973-7794-77-2. pp.138-146 (Indexed ISI web of Knowledge)
- B. Crainicu, B. Iantovics. *Securing WEP Cryptosystems through A New RC4 Key Scheduling Algorithm*, Barna Iantovics, Călin Enăchescu, Florin Filip (eds) *Complexity in Artificial and Natural Systems*, Editura Universității "Petru Maior", 2008, ISBN 978-973-7794-76-5. pp.93-99 ISI Conference Proceedings Citation Index
- B. Iantovics, B. Crainicu, *Security Measures in Complex Multiagent Systems Composed from Mobile Agents* Barna Iantovics, Călin Enăchescu, Florin Filip (eds) *Complexity in Artificial and Natural Systems*, Editura Universității "Petru Maior", 2008, Pp. 47-55. ISI Conference Proceedings Citation Index
- B. Iantovics, B. Crainicu *Complex Mobile Multiagent Systems* Proceedings of the First International Conference on Complexity and Intelligence of the Artificial and Natural Complex Systems. Medical Applications of the Complex Systems. Biomedical Computing, November 8-10, Tg. Mures, Romania, Editors: Barna Iantovics, Călin Enăchescu, Florin Gheorghe Filip, IEEE Computer Society Press, 2009 Pp. 12-31
- B. Iantovics, C. Enăchescu, Problem Solving Using Evolutionary Multiagent Systems, Călin Enăchescu, Barna Iantovics, Florin Filip (Ed.) *Advanced Bio-Inspired Computational Methods*, American Institute of Physics Proceedings ISBN, pp.138-146
- C. Enăchescu, B. Iantovics. Neural networks for surface reconstruction. Călin Enăchescu, Barna Iantovics, Florin Filip (ed.) *Advanced Bio-Inspired Computational Methods*, American Institute of Physics Proceedings ISBN, pp.138-146 (ISI Conference Proceedings Citation Index)
- B. Crainicu, B. Iantovics, *Securing WEP Cryptosystems through A New RC4 Key Scheduling Algorithm* Barna Iantovics, Călin Enăchescu, Florin Filip (eds) *Complexity in Artificial and Natural Systems*, IEEE Computer Society Press,
- C.-B. Zamfirescu, L. Duta, B. Iantovics, On investigating the cognitive complexity of designing the group decision process, Studies In Informatics And Control, SIC, Volume 19 · Issue 3 · 2010, pp. 263-270 (ISI journal)
- Barna Iantovics, Florin F. Nichita, The Energy and the Entropy of Hybrid Multi-Agent Systems, International Conference on Virtual Learning, ICVL 2011 (ISI Conference Proceedings Citation Index)

Books, Edited Books, Book Chapters and Journal Special Issues

- B. Iantovics, C. Chira, D. Dumitrescu, *Principiile Agenților Inteligenți*, Editura Casa Cărții de Știință, Cluj-Napoca, 2007. ISBN: 978-973-133-035-8; 244 de pages.
- C. Enăchescu, B. Iantovics, F.G. Filip (eds.) *Advanced Bio-Inspired Computational Methods*, Editura Universității "Petru Maior", 2008, (239 pages),
- B. Iantovics, C. Enăchescu, F.G. Filip (eds) *Complexity in Artificial and Natural Systems*, Editura Universității "Petru Maior", 2008, (337 pages).
- B. Iantovics. *Mobile Agents*. Profesor Gheorghe Fărcaș la vârsta de 70 de ani, Petru Maior University Press, Tg. Mureș, 2004, pp.171-185. (book chapter)
- B. Iantovics. *Difficult Problems Solving Using BDI Agents*. Profesor Gheorghe Fărcaș la vârsta de 70 de ani, Petru Maior University Press, Tg. Mureș, 2004, pp.186-197. (book chapter)
- B. Iantovics, *A Novel Diagnosis System Specialized in Difficult Medical Diagnosis Problems Solving*, Understanding Complex Systems, Emergent Properties in Natural and Artificial Dynamical Systems, M.A. Aziz-Alaoui, C. Bertelle (Eds.), Springer-Verlag, Berlin/Heidelberg, 2006.
- Iantovics B. *Cooperative Medical Diagnoses Elaboration by Physicians and Artificial Agents*. Understanding Complex Systems, From System Complexity to Emergent Properties, Aziz-Alaoui, M.A., Bertelle, C. (Eds.), Springer-Verlag, Berlin/Heidelberg, 2009, Pages 315-339
- C. Enăchescu, B. Iantovics, F.G. Filip (eds.), *Bio-Inspired Computational Methods Used for Difficult Problems Solving. Development of Intelligent and Complex Systems*, November 5-7, Tg. Mures, Romania, American Institute of Physics Proceedings, 2009, ISSN: ISBN 978-0-7354-0654-4 (244 pages)
- Editors: Barna Iantovics, Călin Enăchescu, Florin Gheorghe Filip, *Proceedings of the Complexity and Intelligence of the Artificial and Natural Complex Systems. Medical Applications of the Complex Systems. Biomedical Computing*. November 8-10, Tg. Mures, Romania, IEEE Computer Society Press, ISSN (pages) (ACM digital library; Scopus)
- Calin Enachescu, Florin Gheorge Filip, Barna Iantovics (eds.) *Advanced Computational Technologies Romanian Academy Publishing House* (in press)
- David Hobby, Barna Iantovics and Florin Felix Nichita, *On Computational Methods and the Yang-Baxter equations*. *Advanced Computational Technologies Romanian Academy Publishing House*, Calin Enachescu, Florin Gheorge Filip, Barna Iantovics (eds.) (book chapter)
- B. Iantovics, D. Radoiu, M. Marusteri, Matthias Dehmer (Eds.). *Special Issue on Complexity in Sciences and Artificial Intelligence*, July, 2010, Journal BRAIN. Broad Research in Artificial Intelligence and Neuroscience, ISSN 2067-3957 (journal special issue)
- Barna Iantovics, Ladislav Hluchý, Roumen Kountchev (Eds.), *Special Issue on Understanding Complex Systems*, Acta Universitatis Apulensis, ISSN 1582-5329 (in progress) (journal special issue)
- *Special Issue on Advances in Applied Sciences* Editors: Barna Iantovics, Marius Marusteri, Rodica-Mariana Ion, Roumen Kountchev (aprox. 200 de pagini) Journal BRAIN. Broad Research in Artificial Intelligence and Neuroscience, October 2010 (journal special issue)
- Barna Iantovics, Marius Marusteri, Constantin-Bala Zamfirescu. *From Natural Computing to Self-organizing Intelligent Complex Systems*, IGI Press Journal of Information Technology Research (JITR) ISSN: 1938-7857 (in progress) (journal special issue)
- Documentations for the students in digital format: 4

Professional Affiliation

- *Member: European Complex Systems Society*
- *Member: International Institute of Informatics and Systemics - Member ID: 598655*
- *Former Member - International Node: COSNet - the Australian Research Council, Australian Gouvernement - Complex Open Systems Research Network*
- *Affiliate member IEEE Society*, Number: 90400187
- *Affiliate member IFAC* (International federation of Automatic Control)
- **Associate Member:** Multidisciplinary Institute for Complex Systems, Normandy France
- **Member.** International Association on for Information, Culture, Human and Industry Technology The International Association for Information, Culture, Human and Industry Technology(AICIT), 707 Seokjang-dong, BI Center, Gyeongsang-bukdo 780-714 South Korea
- **Member.** International Society for Computational Biology (ISCB)

Conferences

- Presentations at international conferences : 32
- Presentations at national conferences : 13

Research grants

- Director International Project: 461CB/23.10.210, *Electronic Health Records for the Next Generation Medical Decision Support in Romanian and Bulgarian National Healthcare Systems – NextGenElectroMedSupport*, Co: Univ. Petru Maior Tg. Mures, Co: Technical University, Sofia, Bulgaria, P1: UMF Tg. Mures, P2: ULB, Sibiu, P3: ICECHIM Bucuresti (2 years project)
- Director International Project: 476/07.03.2011, *Hybrid Medical Complex Systems, ComplexMediSys*, Co: Universitatea Petru Maior din Targu Mures; Co: Institute of Informatics of the Slovak Academy of Sciences (2011-2012)
- Director: Grant de cercetare pentru doctoranzi Universitatea Petru Maior din Tg. Mures, Nr: 1781/05.06.2006
- Participation: TEMPUS Mobility at the „National Technical University of Athen” din Athena, Grecia, 2000
- Expert in projects: 2
- Member/researcher in national projects: 4
- Member in international projects 2
- Participation at the International Exploratory Workshop: Can Complexity Improve European Health Policy? 23-25.September.2009 Held at Lancaster University, UK. All the expenses (registration fee, traveling costs and acomodation costs) were covered by the “European Science Foundation”.

Scientific recognition

- Member in International Conference/Workshop Scientific Committees: Germany (1); Malta (1); France (1) Romania (5); USA (3); Korea (18); China (2); Hungary (1); UK (1); Spain (2); Poland (1); Austria (1); Jordan (1); the Netherlands (1); Russia (1); India (2); Macao (2)
- Organized conference: International Conference: *Complexity and Intelligence of the Artificial and Natural Complex Systems. Medical Applications of the Complex Systems. Biomedical Computing – CANS 2008*. 8-10.November.2008, Tg. Mures, Romania (http://davos.science.uttgm.ro/complex_systems/)
- Organized conference: International Conference: *Bio-Inspired Computational Methods Used for Difficult Problems Solving. Development of Intelligent and Complex Systems-BICS 2008*, 5-7.November.2008, Tg.Mures, Romania (http://davos.science.uttgm.ro/bio_computation/)
- Organized conference: *International symposium Understanding Intelligent and Complex Systems*, Location Petru Maior University, Romania, date: 22-23.October.2009. uics.upm.ro
- Organized conference: 1st International Workshop on Next Generation Intelligent Medical Decision Support Systems Meddecsup 2011, Organizing Institutions Petru Maior University of Targu Mures and Technical University of Sofia, Location Petru Maior University, Tg. Mures, Romania, ncscs.upm.ro
- Member in conference organizing committees: 5
- Editor (International Journal): Journal of Convergence Information Technology ISSN 1975-9320;
- Editor (International Journal): International Journal of Digital Content Technology and its Applications ISSN 1975-9339;
- Editor (International Journal): International Journal of Advancements in Computing Technology, ISSN: 2005-8039;
- Editor (international Journals): *International Journal of Intelligent Computing*, ISSN: 0976-9005;
- Editor (International Journal): Member of International Editorial & Advisory Board, Journals of IST Press, Canada;
- Editor (International Journal): *BRAIN. Broad Research in Artificial Intelligence and Neuroscience* ISSN 2067-3957;
- Editor (International Journal): *AXIOMS: Mathematical Logic and Mathematical Physics*, ISSN 2075-1680
- Scientific reviewer in many international journals and many international conferences.
- Expert evaluator international (2008-2010): National Science Fund of Bulgaria
- Keynote Speaker - international conferences: 2
- Outstanding intellectual 2011-International Bibliographical Center, Cambridge, England
- Marquis Who's Who in the World, 2010, USA
- TOP 100 Educators -2010- International Bibliographical Center, Cambridge, England