Facultatea de Ştiinţe
Bacău

ROMÂNIA
MINISTERUL EDUCAŢIEI NAŢIONALE
UNIVERSITATEA **Vasile Alecsandri** din BACĂU
FACULTATEA DE ŞTIINŢE
Calea Mărăşeşti, nr. 157, Bacău, 600115
Tel. ++40-234-542411, tel./ fax ++40-234-571012

www.ub.ro; e-mail: stiinte@ub.ro

Nr. 180 din 26.02.2013

Raport privind activitatea de cercetare din Facultatea de Ştiinţe în anul 2012

În cadrul Facultăţii de Ştiinţe a Universităţii "Vasile Alecsandri" din Bacău activează două departamente, cu următoarea componenţă la finele anului 2012:

(i) Departamentul de Biologie, Ecologie şi Protecţia mediului–format din 11 titulari, cu un număr de 10 doctori în ştiinţe şi 1 doctorand;

(ii) Departamentul de Matematică, Informatică şi Ştiinţele educaţiei–format din 23 titulari, cu un număr de 19 doctori în ştiinţe şi 4 doctoranzi.

ORGANIZAREA CERCETARII

În Facultatea de Ştiinţe funcţionează trei centre de cercetare

- Centrul de Cercetare " Matematică şi Informatică" .
- Centrul de Cercetare „ Resursele mediului şi biotehnologii"
- Centrul de Cercetare "Performed"

Activitatea de cercetare este organizată pe colective de cercetare, în cadrul departamentelor facultăţii:

- Departamentul de Biologie, Ecologie şi Protecţia mediului – 2 colective de cercetare:
  - Agricultură, alimentaţie şi biotehnologii;
  - Mediu
- Departamentul de Matematică, Informatică şi Ştiinţele educaţiei – 4 colective de cercetare:
  - Analiză matematică şi aplicaţii, optimizare şi matematică discretă;
  - Geometrie;
  - Informatică şi matematică aplicată.
  - Ştiinţele educaţiei

Activitatea de cercetare a Facultăţii de Ştiinţe în anul 2012 s-a încadrat în următoarele domenii prioritare de cercetare din Strategia naţională de Cercetare, Dezvoltare şi Inovare 2007-2013, precizate şi în Planul anual de cercetare al Facultăţii pe 2012, şi anume:

1. Agricultură, securitate şi siguranţă alimentară
2. Biotehnologii
3. Cercetări socio-economice şi umaniste
5. Materiale, procese şi produse inovative
6. Mediu
9. Tehnologiile societăţii informaţionale
10. Alte domenii de cercetare (Matematică-cercetări teoretice şi aplicative)

În ceea ce urmează vom prezenta:

I. Analiza comparativă a obiectivelor din planul de cercetare pe 2012 şi rezultatelor cercetării obţinute în 2012

II. Rezultatele cercetării din 2012

III. Alte realizări în domeniul cercetării (editarea de reviste ştiinţifice, organizarea de manifestări ştiinţifice, activităţi de consultanţă, cercuri ştiinţifice studenţeşti)

IV. Recunoaşterea naţională şi internaţională (citări)

V. Concluzii

I. ANALIZA COMPARATIVĂ A OBIECTIVELOR DIN PLANUL DE CERCETARE PE 2012 ŞI REZULTATELOR CERCETĂRII OBŢINUTE ÎN 2012

Conform planului de cercetare pentru anul 2012, cadrele didactice care raportează cercetarea la Facultatea de Ştiinţe au avut de realizat următoarele obiective:

propunerea a 5 proiecte de cercetare
- publicarea a 65 articole în reviste BDI / ISI.
- publicarea a 12 cărţi şi cursuri universitare.

Gradul de realizare al obiectivelor propuse şi comparaţie cu realizările anilor 2011 şi 2010 sunt prezentate în tabelul următor:

Nr.crt.	Obiectiv	Propunere 2012	Realizat 2012	Realizat 2011	Realizat 2010
1	Propunere proiecte de cercetare	5	8	15=9+6	7
2	Articole prezentate la conferinţe internaţionale/ naţionale	28	43	37	43
3	Articole publicate în reviste ISI /BDI / altele (proceedings)	6/48/11(total 65)	12/54/11 (total 77)	65 (din care 4 ISI)	62
4	Cărţi publicate	12	24	33	15

Realizările anului 2012 sunt prezentate în detaliu în continuare.

REZULTATELE CERCETĂRII DIN 2012

1. Lucrări ştiinţifice/tehnice publicate în 2012 în reviste de specialitate cotate ISI având autori din cadrul Facultăţii de Ştiinţe

Departamentul BEPM

Nr. crt	*Anul*	*Autor(i)*	*Titlul articolului*	*Revista*	*Factor de impact 2011*	*ISSN*
1.	2012	Lazar G., Ureche D., Ifrim I.L., Stamate M., Ureche C., Nedeff V., Nistor I.D., Finaru A.L., Lazar I.M.	Effects of the environmental stress on two fish populations revealed by statistical and spectral analysis	Environmental Engineering and Management Journal, 11, 109-124	1,004	1582-9596
2.	2012	Luminiţa Grosu, Barbara Fernandez, Cristina Gabriela Grigoraş, Oana Irina Patriciu, Irina-Claudia Grig-Alexa, Daniela Nicuţă, Domnica Ciobanu, Lucian Gavrilă, Adriana Luminiţa Fînaru	Valorization of whey from dairy industry for agricultural use as fertilizer: effects on plant germination and growth	Environmental Engineering and Management Journal, 11(12): 2203-2210	1,004	1582-9596
3.	2012	Iuliana Mihaela Lazar, Irina Loredana Ifrim, Daniela Nicuta, Marius Stamate	Evaluation of growth parameters and spectroscopic indexes of canola from seeds subjected to non- ionizing radiation stress	Environmental Engineering and Management Journal, 11(12), 2211-2221	1,004	1582-9596
4.	2012	Ureche Dorel, Ureche Camelia, Lazăr Iuliana	Length-weight relationships and Fulton's condition factor for nine species of fish captured from the basin of River Casin including some of its tributaries	Environmental Engineering and Management Journal, 11(12) 2275-2283	1,004	1582-9596
5.	2012	Simon-Gruita Alexandra, Tataru Ecaterina, Constantin Nicoleta, Duta Cornescu Georgiana, Pavlusenco Camelia Ecaterina, Rati Viorel, Rati Luminita, Stoian Veronica	The assessment of the genetic diversity of sea buckthorn populations from Romania using RAPD markers	Romanian Biotechnological Letters Vol. 17, No.6, 2012.	0.219	1224-5984

Departamentul MISE

Nr. crt	*Anul*	*Autor(i)*	*Titlul articolului*	*Revista*	*Factor de impact 2011*	*ISSN*
1.	2012	Mihai Talmaciu	Determination of the Optimally Efficient Sets in Special Classes of Graphs	Studies in Informatics and Control	0.578	1220-1766
2.	2012	E. Peyghan and Manuela Gîrţu	An almost paracontact Riemannian structure on indicatrix bundle of a Finsler manifold,	Mathematical Reports	0.273	1582-3067
3.	2012	Camelia M. Pintea, Gloria Cerasela Crişan, Camelia Chira	Hybrid ant models with a transition policy for solving a complex problem	Logic Journal of the IGPL	0.913	1367-0751
4.	2012	Elena-Roxana Ardeleanu (Sgarcea)	A chemotaxis model in a stratified domain	Mathematical Reports	0.273	1582-3067
5.	2012	Gloria Cerasela Crişan, Camelia-Mihaela Pintea, Camelia Chira	Risk assesment for incoherent data	Environmental Engineering and Management Journal, 11, 12, 2167-2172	1.004	1582-9596
6.	2012	Nechita E., Muraru C., Talmaciu M.	A bayesian approach for the assessment of risk probability. Case study for digital risk probability	Environmental Engineering and Management Journal, 11(12), 2249-2256	1.004	1582-9596
7.	2012	Akkouchi M. Popa V.	Altering distances and fixed point results for tangential mappings	Bulletin of the Belgian Mathematical Society-Simon Stevin, 19 (1), 155-164	0.341	1370-1444

2. Inițiativa în atragerea de fonduri de cercetare, prin proiecte depuse în competiții naționale, competiții organizate de autoritățile locale

Nr. crt.	*Proiect depus*		*Director proiect*		*Anul depunerii*
	Nr. Înregistrare	*Denumire*	*Nume*	*Prenume*	
1.	PF018	Bacău and Lugano-Teaching Informatics for a Sustainable Society (BLISS)	Nechita	Elena	2012

2.		Sustainable Business Growth Based on Innovation and Knowledge (INNOVA)	Nechita	Elena	2012
3.		Skills for Tourism-related Occupations: Transfer and Assessment of Learning	Nechita	Elena	2012
4		Configuring the Cultural Identity of Language Teachers (CO-CI-LT)	Mâţă	Liliana	2012
5		Inovaţii în formarea profesorilor în domeniul didacticii (INOVA-DID)	Mâţă	Liliana	2012

2a. Cooperări bilaterale

Departamentul MISE

Nr. crt.	*Proiect*		*Director proiect*		*Membri echipă MISE*	*Valoare contract în lei (aferentă anului 2012)*
	Nr. Înregistrare	*Denumire*	*Nume*	*Prenume*		
1.	1196/27-04-2012	Classes of graphs, complexity of problems and algorithms - Bilateral Cooperation Romanian Academy ("Vasile Alecsandri" University of Bacau is partner) and the National Academy of Sciences of Belarus Republican Foundation for Fundamental Research, "AR-FRBCF"	Talmaciu	Mihai	Elena Nechita	7000
2.	Contract nr. 561/11.06.2012, 2012	Inovaţii curriculare la nivelul programelor de formare a profesorilor din învăţământul primar şi preşcolar	Mâţă	Liliana	Lazăr Gabriel, Cmeciu Doina, Boghian Ioana, Stoica Ionuţ	49730.51

2b. Contracte obţinute/derulate prin competiţii naţionale, inclusiv cu agenţi economici

Departamentul BEPM

Nr. crt.	*Proiect depus*		*Director proiect*		*Anul obţinerii/derulării*	*Valoare contract în lei (aferentă anului 2012)*
	Nr. Înregistrare	*Denumire*	*Nume*	*Prenume*		
1.	1 / 2012	Inventariere ihtiofaună pe tronsonul Nehoiu – Pârscov de pe râul Buzău	Ureche	Dorel	2012	14500
2.	3 / 2012	Inventariere ihtiofaună pe sectorul Cosmeşti de pe râul Siret	Ureche	Dorel	2012	2500
3.	4 / 2012	Inventariere ihtiofaună pe sectorul Movileni de pe râul Siret	Ureche	Dorel	2012	3000
	Total					**20000**

2c. Contracte derulate în universitate cu participarea cadrelor Facultăţii de Ştiinţe

Departamentul BEPM

Nr. crt.	*Proiect*		*Director proiect*		*Membri echipă BEPM*	*Valoare contract în lei (aferentă anului 2012)*
	Nr. Înregistrare	*Denumire*	*Nume*	*Prenume*		
1.*	561 / 2012	Inovaţii curriculare la nivelul programelor de formare a profesorilor din învăţământul primar şi preşcolar (CITPED) - Capacităţi / Modul III – Cooperare bilaterală România – Cipru (Durata 2012-2013)	Mâţă	Liliana	Stoica Ionuţ	51849

2.	225/2012 Parteneriate	Predarea şi învăţarea ştiinţelor şi disciplinelor tehnologice prin intermediul reţelei de table ceramice cu sunet integrat (ēno)	Lazăr	Gabriel	Ureche Camelia Nicuţă Daniela	261250

* Raportat la MISE, Cooperare bilaterală

Departamentul MISE

Nr. crt.	*Proiect*		*Director proiect*		*Membri echipă MISE*	*Valoare contract în lei (aferentă anului 2012)*
	Nr. Înregistrare	*Denumire*	*Nume*	*Prenume*		
1.	POSDRU 55585	Dezvoltarea managementului calitatii academice la nivel de sistem, bazat pe proiectarea si implementarea unui sistem informatic pentru gestionarea experientei si accesarea informatiei in contextul promovarii universitatii inovative	Lazăr	Gabriel	Furdu Iulian, Crişan Gloria Cerasela Cojocariu Venera	246.423*
2	POSDRU 63545	TEORO-Terapia ocupaţională şi ingineria aplicată în echipamente pentru reabilitare şi tehnologie asistivă	Raveica	Gabriela	Talmaciu Mihai, Pătruţ Bogdan	
3.	LIFE 08 INF/RO/000507	Promoting green products	Nedeff	Valentin	Muraru Carmen	162.075
4.	CNCSIS PN-II-TE 282, Contract nr. 58/ 9.08.2010	Inovaţii curriculare pentru dezvoltarea competenţelor pedagogice ale profesorilor de română din aria Limbă şi comunicare prin programele de formare iniţială"	Suciu	Andreia	Mâţă Liliana, Ghiaţău Roxana	181000
5.	PN-II-PT-PCCA-2011-3.2-1108	Networked interactive ceramic whiteboards with integrated sound (ENO) for teaching and learning science and technology	Lazăr	Gabriel	Lazăr Iulia, Nechita Elena, Ifrim Irina, Ureche Camelia, Cojocariu	

					Venera, Nicuţă Dana, Mâţă Liliana	
6	POSDRU/90/2.1./S/63960	Convergenţa pregătirii universitare cu viaţa activă în domeniul economic	Nedeff	Valentin	Cojocariu Venera	

3. Lucrări ştiinţifice prezentate la conferinţe internaţionale/ naţionale, congrese, sesiuni ştiinţifice cu comitet de program

Departamentul BEPM

Nr. crt.	***Anul***	***Autor(i)***	***Titlul lucrării***	***Conferinţa***
1.	2012	Pintilieasa Ramona, Ureche Dorel, Ureche Camelia	Research regarding the ichthyofauna in the upper and middle basin of River Târnava Mare	*Impactul antropic asupra diversităţii structurale şi funcţionale a sistemelor biologice*, 26-27 oct. 2012, Facultatea de Biologie, Univ. "Al. I. Cuza" Iaşi (naţională)
2.	2012	Ureche Dorel, Pintilieasa Ramona, Ureche Camelia	Research regarding the ichthyofauna in the lower basin of River Târnava Mare (Romania)	*Annual Zoological Congress of "Grigore Antipa" Museum*, CZGA 2012, 21-23 nov. 2012, Muzeul Naţional de Istorie Naturală "Grigore Antipa" Bucureşti, (internaţională)
3.	2012	Ureche Dorel, Ureche Camelia, Lazăr Iuliana	Risk exposure to environmental stress of several fish species reflects on allometric scaling decreases	*First International Conference on MOLDAVIAN RISKS – FROM GLOBAL TO LOCAL SCALE.* Bucureşti, 16-19 mai 2012 (internaţională)
4.	2012	Daniela Nicuţă, Diana-Elena Maftei, Gogu Ghiorghiţă	Data on the *in vitro* response of *Vaccinium corymbosum* L.	*Impactul antropic asupra diversităţii structurale şi*

				funcţionale a sistemelor biologice, 26-27 oct. 2012, Facultatea de Biologie, Univ. "Al. I. Cuza" Iaşi (naţională)
5.	2012	Daniela Nicuţă, Diana-Elena Maftei, Gogu Ghiorghiţă	Aspects regarding the *in vitro* response of *Rubus fruticosus* L.	Biologia şi dezvoltarea durabilă, 8 – 9 noiembrie 2012, Muzeul de Ştiinţe ale Naturii „Ion Borcea" Bacău (naţională cu participare internaţională)
6.	2012	Voicu Roxana Elena, Ureche Camelia, Jitaru Benone	Comparative researches on the structure of epigean fauna in two types of natural ecosystem at Poiana Sărată (Bacău County, Romania)	*Annual Zoological Congress of "Grigore Antipa" Museum*, CZGA 2012, 21-23 nov. 2012, Muzeul Naţional de Istorie Naturală "Grigore Antipa" Bucureşti, (internaţională)
7	2012	Voicu Roxana Elena, Ureche Camelia, Trifănescu Luciana	Research on the composition of epigean fauna in three types of habitats from Valea Uzului, Bacău	*Impactul antropic asupra diversităţii structurale şi funcţionale a sistemelor biologice*, 26-27 oct. 2012, Facultatea de Biologie, Univ. "Al. I. Cuza" Iaşi (naţională)
8.	2012	Ureche Camelia, Voicu Roxana Elena, Chiriac George	Comparative studies on the epigean invertebrates communities in different types of forest and agrosystem (Romania)	*Annual Zoological Congress of "Grigore Antipa" Museum*, CZGA 2012, 21-23 nov. 2012, Muzeul Naţional de Istorie Naturală "Grigore Antipa" Bucureşti, (internaţională)
9.	2012	Ureche Camelia, Ureche Dorel, Lazăr Iuliana	Assessing temporal and spatial variations in size of different fish populations related with different biotic environmental attributes	*First International Conference on MOLDAVIAN RISKS – FROM GLOBAL TO LOCAL SCALE.* Bucureşti, 16-19 mai 2012 (internaţională)

10.	2012	Ghiorghiță Gogu, Maftei Daniel Ioan, Nicuță Daniela, Maftei Diana Elena, Bădăluță Nicoleta	Identification of efficient culture medium variants for the in vitro micropropagation of *Rhodiola rosea* L. and *Stachys sieboldii* Miq.	7-th The Association for Medicinal and Aromatic Plants of Southeast European Countries (CMAPSEEC), Institute for Medicinal Plant Research "Dr Josif Pančić", Belgrade, Serbia, 27-31 May 2012

Departamentul MISE

Nr. crt.	***Anul***	***Autor(i)***	***Titlul lucrării***	***Conferința***
1.	2012	Crișan Gloria Cerasela, Camelia-Mihaela Pintea, Camelia Chira	Data incoherence for Combinatorial Optimization Problems	First International Conference on MOLDAVIAN RISKS – FROM GLOBAL TO LOCAL SCALE, 16-19 May, 2012, Bacau
2.	2012	Otilia Lungu, Valer Nimineț	General Randers mechanical systems	A XVI-a Conferință SSMR, Ploiești 19-20.10. 2012 (națională)
3.	2012	Marcelina Mocanu	Approximation by Lipschitz functions in abstract Sobolev spaces on metric spaces	International Conference on Complex Analysis and Related Topics. The 13th Romanian-Finnish Seminar, Ploiești, June 26-30, 2012
4.	2012	Marcelina Mocanu	A unifying approach to Sobolev-type spaces on metric measure spaces	The 20th Conference on Applied and Industrial Mathematics (CAIM), Chișinău, Moldova, August 22-25, 2012 (internațională)
5.	2012	Carmen Violeta Muraru, Ana Maria Acu	Some approximations properties of Schurer-Bernstein operators based on q-integers	RoGer 2012, Sibiu, May 24-27, 2012 (internațională)
6.	2012	Mihai Talmaciu, Elena Nechita, Barna Iantovics	On Confidentially Connected-Free Graphs	Second International Workshop on Next Generation Intelligent Medical Decision Support Systems'2012, MedDecSup' 2012. Sofia, Bulgaria, July 10-11, 2012.

7	2012	Elena Nechita	A Bayesian Approach for the assessment of risk impact. Case study for digital risk impact	First International Conference on Moldavian Risks-from local to global scale, Bacău, May 16-19, 2012
8.	2012	Valer Nimineţ, Otilia Lungu	On the locally Minkowski GL^n space	A XVI-a Conferinţă SSMR, Ploieşti 19-20.10. 2012 (naţională)
9.	2012	Ioana Alexandra Pandele	General Considerations regarding the Connection: National Security-Computerization	The 18th International Conference "Knowledge Based Organizations" , Sibiu, June 14, 2012
10	2012	Ioana Alexandra Pandele	CIA in Public Administration-Choosing Intelligent Agents in Public Administration	The 18th International Conference "Knowledge Based Organizations" , Sibiu, June 14, 2012
11.	2012	Vasile Postolică	Isac's Cones in General Vector Spaces	The 6th European Congress of Mathematics, Satellite Thematics Session Geometric Methods in Calculus of Variations, Cracovia, Poland, July, 2-7, 2012
12.	2012	Cosmin Tomozei	Evolution of econometric software for cloud computing by means of reengineering and virtualization	The 11th International Conference on Informatics in Economy (IE 2012), Bucharest, May 10-11, 2012
13.	2012	Venera-Mihaela Cojocariu, Gabriel Albu	How to become "excellence" teacher in pre-academic Romanian education?	The 4th World Conference on Educational Sciences, WCES 2012, Barcelona, 2012 February 2-5
14.	2012	Venera-Mihaela Cojocariu	The Department of Professional Counseling-a non-formal formative vector in the Romanian academic education	The 3rd World Conference on Psychology, Counselling and Guidance WCPGG-2012, Bucharest, May 9-12, 2012
15	2012	Venera-Mihaela Cojocariu, Iulia Dămian	Teaching Quality, New Learning Technologies and the Competences Demanded on the Job Market	The 8th International Scientific Conference "eLearning and Software for Education", Bucharest , April 26-27, 2012
16	2012	Venera-Mihaela Cojocariu	Romanian-Spanish Confluences in Training Teachers for Primary/ Preschool Education (Why not also Chinese?)	The 2nd International Conference on Economic, Education and Management ICEEM 2012, Shanghai, June 1-2, 2012
17.	2012	Costică Lupu	Mathematical induction. Method demonstration	Conferinţa Naţională de didactică „Problematizări în didactica generală şi didacticile speciale", Predeal, September 19-

				21, 2012
18.	2012	Costică Lupu	Demonstration by reducing to absurd	5th International Conference EduWorld, Piteşti, November 29-December 1, 2012
19.	2012	Costică Lupu	Problem solving strategies in teaching mathematics in primary school	International Conference: Professional Development of Teachers from Kindergarten to Primary School, Iaşi, November 15-18, 2012
20	2012	Costică Lupu	Use of Mathematical Content Sheets	3rd World Conference on Learning, Teaching and Educational Leadership, Brussels, Belgium, October 25-28, 2012
21	2012	Liliana Mâţă, Iulia Lazăr, Gabriel Lazăr	The Issues and Original Solutions of Integrating Information and Communication Technologies to Initial Teacher Education	International Journal of Arts & Sciences Conference (IJAS 2012), December 2-7, 2012
22	2012	Iulian Furdu, Cosmin Tomozei	Improving management of risks and natural didasters by regional GIS distributed applications	First International Conference on Moldavian Risks-from local to global scale, Bacău, May 16-19, 2012
23	2012	Liliana Mâţă	A Reference Framework of Pedagogical Competences of Language Teachers in the Initial Training Programmes	3rd World Conference on Learning, Teaching and Educational Leadership (WCLTA 2012), 25-28 octombrie 2012, Maison N.-D. Chant d'Oiseau, Brusells, Luxemburg - Belgium
24	2012	Gabriel Albu, Venera Mihaela Cojocariu	What do university professors (still) believe in?	International Conference on Education and Educational Psychology (ICEEPSY 2012), POINT LOMA NAZARENE UNIVERSITY - C-CRCS, 10.10.2012 – 13.10. 2012
25	2012	Venera Mihaela Cojocariu, Iulia Dămian	Some aspects of the relationship between emotional intelligence and optimal sports performance in women's volleyball	The 4th International Conference "Achievements and prospects in the field of physical education and sports within the interdisciplinary european education system", UVAB, FŞMSS, Bacău, 09.11.2012 –10.11. 2012

26	2012	Venera Mihaela Cojocariu	Is there an axiological background favoring the initial training in the didactic career for the primary and preschool didactic career?	International conference professional development of teachers from kindergarten and primary school (ICPDTKPS 2012), Univ. „A.I. CUZA" Iaşi, Facultatea de Psihologie şi Ştiinţe ale educaţiei, 15-18 November 2012
27	2012	Venera Mihaela Cojocariu	Petre Ţuţea or some axiological anchors for a necessary patriotic education	5th International Conference "Education Facing Contemporary World Issues" [EDU WORLD 2012], Universitatea din Piteşti, 29.11.2012–01.12. 2012
28	2012	Venera Mihaela Cojocariu	Do university professors still believe in values?	5th International Conference "Education Facing Contemporary World Issues" [EDU WORLD 2012], Universitatea din Piteşti, 29.11.2012–01.12. 2012
29	2012	**Gheorghe Dumitriu**, Constanţa Dumitriu, Iulia Cristina Timofti	Initial training and certification for the teaching profession, between desideratum and achievement	Al 55-lea Simpozion Internaţional, "100 de ani de învăţământ superior agronomic la Iaşi", 23 - 25 octombrie 2012, USAMV, Iaşi
30	2012	Constanţa Dumitriu, **Gheorghe Dumitriu**, Iulia Cristina Timofti	Evaluative competencies of beginning teachers: Strategies of development	3rd World Conference on learning, teaching and educational leadership, 25-28 october 2012, Brussels, Belgium
31	2012	Constanţa Dumitriu, , Iulia Cristina Timofti, **Gheorghe Dumitriu**	Managing the developing didactic career of beginning teachers	3rd World Conference on learning, teaching and educational leadership, 25-28 october 2012, Brussels, Belgium
32	2012	Simona Elena Vârlan, Bogdan Pătruţ	About Knowledge Management in Virtual Organizations	18th IBIMA Conference on Innovation and Sustainable Economic Competitive Advantage: From Regional Development to World Economies, May 9-10, 2012, Bogazici University, Turkey
33	2012	Simona Elena Vârlan	A Theoretical Analysis about Accounting Knowledge Management with XBRL	19th IBIMA Conference on Innovation and Sustainable Economic Competitive Advantage: From Regional Development to World Economies, November 12-13, 2012, Universidad de Alicante, Spain

3a. Lucrări ştiinţifice publicate în proceedings-uri de conferinţe internaţionale/ naţionale, congrese, sesiuni ştiinţifice cu comitet de program

Departamentul MISE

Nr. crt.	*Anul*	*Autor(i)*	*Titlul lucrării*	*Date identificare proceedings*
1.	2012	Ioana Alexandra Pandele	General Considerations regarding the Connection: National Security-Computerization	The 18th International Conference "Knowledge Based Organizations" , Sibiu, June 14, 2012, ISSN 1843-6722, p. 327-332
2.	2012	Ioana Alexandra Pandele	CIA in Public Administration-Choosing Intelligent Agents in Public Administration	The 18th International Conference "Knowledge Based Organizations" , Sibiu, June 14, 2012, ISSN 1843-6722, p. 760-764
3.	2012	Cosmin Tomozei	Evolution of econometric software for cloud computing by means of reengineering and virtualization	Proceedings of the 11th International Conference on Informatics in Economy (IE 2012), Bucharest, May 10-11, 2012, ISSN 2284-7422, 6-24
4.	2012	Venera-Mihaela Cojocariu, Iulia Dămian	Teaching Quality, New Learning Technologies and the Competences Demanded on the Job Market	Leveraging Technology for Learning, Proceedings of the 8th International Scientific Conference "eLearning and Software for Education", Bucharest , April 26-27, 2012, ISSN 2066 - 026x, Volume 1, p.122-128
5.	2012	Venera-Mihaela Cojocariu	Romanian-Spanish Confluences in Training Teachers for Primary/ Preschool Education (Why not also Chinese?)	Proceedings of 2012 2nd International Conference on Economic, Education and Management ICEEM 2012, ISSN 2070-1918, ISBN 978/988/19750-3-4, p. 419-424
6.	2012	Costică Lupu	Methods of mathematical proof. Deductive method	TEE 55th edition, the International Scientific Conference „100 years of Higher Education in agronomy", Iaşi, October 23-25, 2012

7.	2012	Venera-Mihaela Cojocariu, Gabriel Albu	How to become "excellence" teacher in pre-academic Romanian education?	Procedia-Social and Behavioral Sciences, vol. 46, 5021-5025, ISSN 1877-0428 **(ISI Proceedings)**
8.	2012	Gabriel Albu, Venera-Mihaela Cojocariu	What do university professors (still) believe in?	Proceedings of 3rd International Conference on Education and Educational Psychology (ICEEPSY 2012), Volume 69, 2184-2192, ISSN: 1877-0428 **(ISI Proceedings)**
9	2012	Simona Elena Vârlan, Bogdan Pătruţ	About Knowledge Management in Virtual Organizations	Proceedings of the 18th IBIMA Conference on Innovation and Sustainable Economic Competitive Advantage: From Regional Development to World Economies, 6 pp., ISBN 978-0-9821489-7-6
10	2012	Simona Elena Vârlan	A Theoretical Analysis about Accounting Knowledge Management with XBRL	Proceedings of the 19th IBIMA Conference on Innovation and Sustainable Economic Competitive Advantage: From Regional Development to World Economies, 527-532, ISBN 978-0-9821489-8-3

4a. Lucrări ştiinţifice/tehnice publicate în reviste de specialitate indexate BDI

Departamentul BEPM

Nr. crt	***Anul***	***Autor(i)***	***Titlul articolului***	***Revista***	***ISSN***
1.	2012	Ghiorghiţă Gogu, Roşu Crăiţa, Raţi Ioan Viorel, Maftei Daniel Ioan	Study of the variability of some fruit parameters in *Rosa canina* L. genotypes from several local populations in Bacău, Neamţ and Vrancea counties	Analele Ştiinţifice Universitatea "Al. I. Cuza" Iaşi, Seria Genetică şi Biologie Moleculară, Vol 13, Nr. 1 / 2012, 53-62	1582-3571
2.	2012	Raţi Ioan Viorel, Raducanu Dumitra, Badaluţă Nicoleta	Research upon the resistance of raspberry varieties to yellow rust attack	Studii si Cercetări, Seria Biologie, Universitatea „Vasile Alecsandri" din	1224-919X

			(*Phragmidium rubi idaei)* and of blackberry varieties to grey mould *(Botrytis cinerea)*	Bacău, Vol. 21, Nr. 1 / 2012, 36 – 42.	
3.	2012	Raţi Ioan Viorel, Badaluţă Nicoleta, Raducanu Dumitra	A comparative study of raspberry and blackberry cultivars in competition culture	Studii si Cercetări, Seria Biologie, Universitatea „Vasile Alecsandri" din Bacău, Vol. 21, Nr. 1 / 2012, 52 – 59.	1224-919X
4.	2012	Raţi Ioan Viorel, Badaluţă Nicoleta, Raducanu Dumitra	A study on red currant biodiversity and behaviour to disease aimed at selecting the crop variety suitable for Bacau area	Studii si Cercetări, Seria Biologie, Universitatea „Vasile Alecsandri" din Bacău, Vol. 21, Nr. 1 / 2012, 69 – 75.	1224-919X
5.	2012	Raţi Ioan Viorel, Raducanu Dumitra, Badaluţă Nicoleta	A study on black currant biodiversity and behaviour to disease aimed at selecting the crop variety suitable for Bacau area	Studii si Cercetări, Seria Biologie, Universitatea „Vasile Alecsandri" din Bacău, Vol. 21, Nr. 1 / 2012, 83 – 90.	1224-919X
6.	2012	Gurău Milian	Xerophytic flora of Oneşti Depression (Căiuţi – Oituz secţion)	Studii si Cercetări, Seria Biologie, Universitatea „Vasile Alecsandri" din Bacău, Vol. 21, Nr. 1 / 2012, 60 – 64.	1224-919X
7.	2012	Ghiorghiţă Gogu, Nicuţă Daniela, Maftei Diana-Elena, Maftei Daniel-Ioan	Preliminary data of the *in vitro* culture response of *Rosa canina* L. species	Analele Ştiinţifice Universitatea "Al. I. Cuza" Iaşi, Seria Genetică şi Biologie Moleculară, Vol 13, Nr. 2 / 2012, 67-72.	1582-3571
8.	2012	Stoica Ionuţ, Battes Klaus Werner, Pricope Ferdinand	Research on the restoration of the fish communities from the lower basin of Bârlad River	Studii si Cercetări, Seria Biologie, Universitatea „Vasile Alecsandri" din Bacău, Vol. 21, Nr. 2 / 2012, 52 – 59.	1224-919X
9.	2012	Stoica Ionuţ, Pricope Ferdinand, Battes Klaus Werner, Prisecaru Maria	Observation on the state of fish communities in the Bistricioara River, right tributary of Bistriţa River	Studii si Cercetări, Seria Biologie, Universitatea „Vasile Alecsandri" din Bacău, Vol. 21, Nr. 2 / 2012, 45 – 51.	1224-919X
10.	2012	Ureche Camelia, Voicu Roxana Elena	Studies on the invertebrates' communities in biological cherry trees cultures at S.C. Fructex S.A. Bacau	Studii si Cercetări, Seria Biologie, Universitatea „Vasile Alecsandri" din Bacău, Vol. 21, Nr. 2 / 2012, 5 – 10.	1224-919X
11.	2012	Călin Maria, Cristea Tina Oana, Bădulescu Liliana, Ambarus Silvica, Brezeanu Creola, Brezeanu Petre Marian, Prisecaru Maria, Şova George Florin	Study of fruit quality in tomato cultivated in conventional and organic agriculture	Studii si Cercetări, Seria Biologie, Universitatea „Vasile Alecsandri" din Bacău, Vol. 21, Nr. 1 / 2012, 12 – 15.	1224-919X

12.	2012	Cristea Tina Oana, Prisecaru Maria, Ambarus Silvia, Calin Maria, Brezeanu Creola, Brezeanu Petre Marian	Considerations regarding the callus and shoot induction at *Brassica* anthers cultivated *in vitro*	Studii si Cercetări, Seria Biologie, Universitatea „Vasile Alecsandri" din Bacău, Vol. 21, Nr. 1 / 2012, 31 – 35.	1224-919X
13.	2012	Prisecaru Maria, Cristea Tina Oana, Calin Maria	The study of composition in free aminoacids at haploid gametoclones with gynogenetic origin at *Ttriticum aestivum* L., *Beta vulgaris* L., *Helianthus annuus* L. and *Solanum tuberosum* L	Studii si Cercetări, Seria Biologie, Universitatea „Vasile Alecsandri" din Bacău, Vol. 21, Nr. 1 / 2012, 47 – 51.	1224-919X
14.	2012	Prisecaru Maria, Cristea Tina Oana	Spectral analysis of major organic compounds in wheat plants (*Triticum aestivum* L.), sugarbeet (*Beta vulgaris* L.), sunflower (*Helianthus anuus* L.) and potato (*Solanum tuberosum* L.) of gynogenetic origin	Studii si Cercetări, Seria Biologie, Universitatea „Vasile Alecsandri" din Bacău, Vol. 21, Nr. 1 / 2012, 76 – 82.	1224-919X
15.	2012	Călin Maria, Cristea Tina Oana, Ambarus Silvica, Brezeanu Creola, Brezeanu Petre Marian, Prisecaru Maria, Şova George Florin	Study on attacks of tomato fruitworm (*Helicoverpa armigera* Hübner) in vegetable plants	Studii si Cercetări, Seria Biologie, Universitatea „Vasile Alecsandri" din Bacău, Vol. 21, Nr. 1 / 2012, 28 – 33.	1224-919X
16.	2012	Prisecaru Maria, Stoica Ionuţ, Bădăluţă Nicoleta	The use of tumor markers in preventing and diagnosing cancer	Studii si Cercetări, Seria Biologie, Universitatea „Vasile Alecsandri" din Bacău, Vol. 21, Nr. 2 / 2012, 34 – 44.	1224-919X
17	2012	Călin Maria, Brezeanu Petre Marian, Cristea Tina Oana, Ambarus Silvica, Brezeanu Creola, Prisecaru Maria, Şova George Florin.	Study on attacks of tomato diseases in tunnels	Studii si Cercetări, Seria Biologie, Universitatea „Vasile Alecsandri" din Bacău, Vol. 21, Nr. 1 / 2012, 60 – 63.	1224-919X
18	2012	Moales Doina, Prisecaru Maria, Butnaru Elena	The dynamic of lethal poisoning with methanol in fifteen cities in Romania between 2005 and 2010	Studii si Cercetări, Seria Biologie, Universitatea „Vasile Alecsandri" din Bacău, Vol. 21, Nr. 2 / 2012, 64 – 69.	1224-919X
19	2012	Ghiorghiţă Gogu, Antohe N., Raţi Ioan Viorel, Maftei Diana-Elena	The study of some parameters of *Rosa canina* l. genotypes from different native populations and from the same population	Anal. Şt. Univ. "Al. I. Cuza" Iaşi, Ser. II a. Biol. Veget., Vol.58, Nr. 1 / 2012, 19 – 27.	1223-6578
20	2012	Maftei Daniel – Ioan, Maftei Diana-	A histo-anatomical comparative study on	Studii si Cercetări, Seria Biologie,	1224-919X

		Elena, Toma Constantin	Stachys sieboldii Miq. in conventional and in vitro cultures	Universitatea „Vasile Alecsandri" din Bacău, Vol. 21, Nr. 1 / 2012, 5 – 11.	
21	2012	Maftei Diana-Elena, Nicuță Daniela, Ghiorghiță Gogu	Cytogenetic studies on several *Hippophae rhamnoides* L. genotypes	Anal. Șt. Univ. "Al. I. Cuza" Iași, Ser. Genetică și Biol. Mol., Vol. 13, Nr. 2 / 2012, 63 - 66	1582 - 3571
22	2012	T. O. Cristea, C. Leonte, C. Brezeanu, M. Brezeanu, S. Ambarus1, M. Calin and M. Prisecaru	Effect of AgNO3 on androgenesis of Brassica oleracea L. anthers cultivated in vitro.	African Journal of Biotechnology , vol 11, no. 73, 13788-13795	1684-5315

Departamentul MISE

Nr. crt	***Anul***	***Autor(i)***	***Titlul articolului***	***Revista***	***ISSN***
1.	2012	V. Popa, A.-M. Patriciu	A general fixed point theorem for mappings satisfying an Φ - implicit relation_in complete G - metric spaces	Gazi University Journal of Science, 25 (2), 403-408	1303-9709
2.	2012	V. Popa, A.-M. Patriciu	A general fixed point theorem for pairs of weakly compatible mappings in G-metric spaces	Journal of Nonlinear Sciences and Applications, 5(2), 151-160	Print: 2008-1898, Online: 2008-1901
3.	2012	V. Popa, A.-M. Patriciu	A common fixed point theorem for occasionally weakly compatible mappings satisfying an implicit relation without decreasing assumption and applications	Buletinul Institutului Politehnic din Iași (Matematica. Mecanica teoretica. Fizica), vol. LVIII, 1-10	1244-7863
4.	2012	V. Popa, A.-M. Patriciu	(E.A) property and altering distance in metric spaces	Scientific Studies and Research. Series Mathematics and Informatics, 22 (1), 93-102	2067-3566
5.	2012	V. Popa, A.-M. Patriciu	Fixed point theorems by altering distances for occasionally weakly compatible hybrid D-mappings and applications	Acta Universitatis Apulensis, vol. 31, 223-239	1582-5329

6.	2012	V. Popa, A.-M. Patriciu	Two general fixed point theorems for pairs of weakly compatible mappings in G-metric spaces	Novi Sad Journal of Mathematics,42 (2), 12-49	1450-5444
7.	2012	V. Popa, A.-M. Patriciu	A general fixed point theorem for occasionally weakly compatible hybrid pairs in quasi - metric spaces and applications	Scientific Studies and Research. Series Mathematics and Informatics, 22(2), 99-112	2067-3566
8.	2012	Mihai Talmaciu, Elena Nechita	Optimization problems on threshold graphs	Acta Universitas Apulensis, Special issue , 62-73	1582-5329
9.	2012	Otilia Lungu, Valer Nimineţ	General Randers mechanical systems	Scientific Studies and Research. Series Mathematics and Informatics, vol. 22, no.1, p. 71-76	2067-3566
10.	2012	Otilia Lungu, Valer Nimineţ	A short description of electromagnetism using the Finsler geometry	Broad Research in Accounting. Negotiation and Distribution, 3 (3), 2012, 46-53	2067-8177
11.	2012	Otilia Lungu, Valer Nimineţ	Ingarden spaces with a special nonlinear connection	Scientific Studies and Research. Series Mathematics and Informatics, vol. 22, no.2, 47-54	2067-3566
12.	2012	Marcelina Mocanu	Calculus with weak upper gradients based on Banach function spaces	Scientific Studies and Research. Series Mathematics and Informatics, vol. 22, no.1, p. 41-64	2067-3566
13.	2012	Marcelina Mocanu	A problem solving approach to some applications of the roots of unity to regular polygons	International Journal of Geometry, 1 (2), 46-60	2067-3566
14.	2012	Marcelina Mocanu	Dense subclasses in abstract Sobolev apaces on metric measure spaces	Scientific Studies and Research. Series Mathematics and Informatics, vol. 22, no.2, 71-84	2067-3566
15.	2012	Carmen Violeta Muraru, Ana Maria Acu	Some approximations properties of Schurer-Bernstein operators based on q-integers	General Mathematics, vol. 20, no. 5, 2012, 61-70	1221-5023
16.	2012	Valer Nimineţ, Otilia Lungu	On the locally Minkowski GL^n space	Scientific Studies and Research. Series Mathematics and Informatics, vol. 22, no.1, p. 71-76	2067-3566

17.	2012	Valer Nimineţ, Otilia Lungu	A generalization of locally Minkowski GL^n space	Scientific Studies and Research. Series Mathematics and Informatics, vol. 22, no.2, 85-90	2067-3566
18.	2012	Valer Nimineţ, Otilia Lungu	On the stability of the mechanical Lagrangian systems	Broad Research in Accounting. Negotiation and Distribution, 3 (3), 2012, 41-45	2067-8177
19.	2012	Bogdan Pătruţ	Syntactic Analysis Based on Morphological Characteristic Features of the Romanian Language	International Journal on Natural Language Computing, 1 (4), 1-13	2319 - 4111
20.	2012	Bogdan Pătruţ	MageLan- A Multiagenr System for Monitoring a Hyper Encyclopedia	International Journal of Emerging Trends in Computing and Information Sciences	2079-8407
21.	2012	Vasile Postolică	Efficiency and extensions in infinite dimensional ordered vector spaces	Theoretical Mathematics and Applications, vol. 2, no.1, 2012, 35-79	1792-9687
22.	2012	Vasile Postolică	On the Equilibria of General Dynamical Systems	Axioms, 1 (3), 2012, 384-394	2075-1680
23.	2012	Anamaria Şiclovan	The Future of Cloud Computing	Broad Research in Accounting. Negotiation and Distribution, 3 (3), 2012, 36-39	2067-8177
24	2012	Costică Lupu	Methods of mathematical proof. Deductive method	Lucrări ştiinţifice. Seria agronomie, vol.55, supliment (Proc. of the International Scientific Conference „100 years of Higher Education in agronomy"), p. 48- 53	1454-7414

25	2012	Liliana Mâţă	Key Factors of Curriculum Innovation in Language Teacher Education	World Academy of Science, Engineering and Technology, 66, 512-520	2010-376X
26	2012	Liliana Mâţă	The Profile of Mother-Tongue Teachers	Proceedings of Economics Development and Research, vol. 37, 228-232	2010-4626
27	2012	Liliana Mâţă, Iulia Lazăr, Gabriel Lazăr	The Issues and Original Solutions of Integrating Information and Communication Technologies to Initial Teacher Education	Journal of Teaching and Education, 1 (7), 137-147	2165-6266
28	2012	V.J. Inglezakis, V. Nedeff, M. Panainte, I. Caraman, **Carmen Muraru**, M. Dram, L. Focariu, V. C.Venetis, P.Coutsikos	Producers and distributors survey on green products in Romania	Buletinul Institutului Politehnic din Iasi, Chimie si Inginerie Chimică, Tomul LVIII (LXII) Fasc. 3, 2012, 29-40	0254-7104
29	2012	Venera-Mihaela Cojocariu, Iulia Dămian	Some aspects of the relationship between emotional intelligence and optimal sports performance in women's volleyball	Gymnasium - Scientific Journal of Education, Sports and Health, Vol XIII, nr. 1/2012, 275-286	1453-0201
30	2012	**Gheorghe Dumitriu** (DPPD), Constanţa Dumitriu (DLLRSC), Iulia Cristina Timofti (DKTO)	Initial training and certification for the teaching profession, between desideratum and achievement	Lucrări Ştiinţifice.Seria Agronomie (Pedagogie si metodica), vol. 55, no. 2, 173-179	1454 - 7414
31	2012	Popa Valeriu, Patriciu Alina	Altering distances, fixed point for occasionally hybrid mappings and applications	Fasciculi Mathematici, vol. 49, 101-112	0044-4413
32	2012	Popa Valeriu, Patriciu Alina	A general fixed point theorem for pairs of mappings satisfying implicit relations in two G - metric spaces	Annals Of Dunarea De Jos University Of Galati Mathematics, Physics, Theoretical Mechanics, vol. 35, 22-28	2067 - 2071

4b. Lucrări ştiinţifice/tehnice publicate în alte reviste
Departamentul BEPM

Nr. crt	*Anul*	*Autor(i)*	*Titlul articolului*	*Revista*	*ISSN*
1.	2012	Ghiorghiţă Gogu, Maftei Diana-Elena, Nicuţă Daniela, Raţi Ioan Viorel	Study of several parameters in *Rosa canina* L. genotypes from native habitats in Romania and the *in vitro* response of this species	Academy of Romanian Scientists Annals, Series on Biology Sciences, on - line edition, Vol. I, Nr. 1 / 2012, 91 - 109	2285-4177

4. Cărţi publicate

Departamentul BEPM

Nr. crt	*Anul*	*Autor(i)*	*Titlul / număr pagini*	*Editură*	*Număr pagini*	*ISBN*
1.	2012	Prisecaru Maria, Morăraşu Nadia	Lumea plantelor în viaţa omului	Alma Mater, Bacău	229	978-606-527-248-4
2.	2012	Prisecaru Maria, Stoica Ionuţ, Cristea Oana Tina	Biologie vegetală – curs universitar	Alma Mater, Bacău	384	978-606-527-225-5
3.	2012	Prisecaru Maria, Stoica Ionuţ	Biologie vegetală – lucrări practice	Alma Mater, Bacău	133	978-606-527-226-2
4.	2012	Gurău Milian	JOSEPH SZABO –FLORA MOLDAVICA (1841-1842)	Alma Mater, Bacău	270	978-606-527-208-8
5.	2012	Pricope Ferdinand, Battes Klaus, Stoica Ionuţ	Bazele biologice ale acvaculturii	Alma Mater, Bacău	153	978-606-527-249-1
6.	2012	Ureche Camelia, Ureche Dorel	Didactica biologiei	Alma Mater, Bacău	159	978-606-527-179-1
7.	2012	Ureche Camelia, Nicuţă Daniela	Ghid de practică pedagogică	Alma Mater, Bacău	60	978-606-527-180-1

Departamentul MISE

Nr. crt	*Anul*	*Autor(i)*	*Titlul / număr pagini*	*Editură*	*Număr pagini*	*ISBN*
1.	2012	Editori: Ricardo Aceves; Luciana Burioll; **Gloria Cerasela Crisan**; D. Dumitrescu; A. Gog; S. Heras; S. Hassan; B. Iantovics; F. Olivetti de França; C. M. Pintea; P. Pop; Dario Landa-Silva; José Ramón Villar	Logistics Management and Optimization through Hybrid Artificial Intelligence Systems / 540	IGI Global/Hershey, PA	540	9781466602977
2.	2012	M. Gîrţu	Matematică aplicată în economie/180	Alma-Mater	180	978-606-527-237-8
3.	2012	Mihai Talmaciu and Elena Nechita	Optimization problems in diamond-free graphs (in Călin Enăchescu, Florin Gheorghe Filip, Barna Iantovics (eds.) *Advanced Computational Technologies*)	Romanian Academy Publishing	8	978-973-27-2256-5
4.	2012	Carmen Violeta Muraru, Elena Nechita	Informatică economică	Alma Mater, Bacău	162	978-606-527-220-0
5.	2012	Elena Nechita	Baze de date. Note de curs	Alma Mater, Bacău	104	978-606-527-236-1
6.	2012	Bogdan Pătruţ, Ioana Boghian	Natural Language Processing: Syntactic Analysis, Lexical Disambiguation, Logical Formalisms, Discourse Theory, Bivalent Verbs	Editura AVM München	110	978-3869242071
7.	2012	Bogdan Pătruţ, Alexandru Bajenaru	Studien über die Europäische Union: ACTA; Lobbying und Nachbarschaftspolitik	Editura AVM München	112	978-3869242774
8.	2012	Tiberiu Socaciu, Bogdan Pătruţ	Financial Engineering, Numerische Methoden für die Bewertung finanziellen Möglichkeiten mit stochastischen Modellen	Editura AVM München	132	978-3639388442
9.	2012	Tiberiu Socaciu, Bogdan Pătruţ	The Backtracking Method: Examples in Pascal and C++	Lambert Academic	196	978-3848441136

				Publishing, Germania		
10.	2012	Tiberiu Socaciu, Bogdan Pătruţ	Dérivés financiers: Algorithmes parallèles pour une évaluation efficace	Presses Académiques Francophones, Germania	104	978-3838188034
11	2012	Bogdan Pătruţ	Creating Advanced PowerPoint Applications with VBA: Psychological Tests, Intelligence Tests, Quizzes with Multiple Choice, MsAgent and Lego MindStorms (in Russian)	Palmarium Academic Publishing	100	978-3-8473-9117-3
12	2012	Vasile Postolică	Analiză matematică. Aplicaţii imediate şi de perspectivă	Alma Mater, Bacău	284	978-606-527-157-9
13	2012	Venera-Mihaela Cojocariu	Educational Strategies Centered on the Beneficiary of Learning, Constructivism and Efficient Practices	Lambert AcademicPublishing, Germania	280	978-3-8454-3769-9
14	2012	Bogdan Pătruţ	A Method of Classifying Words Using the Google Search Engine (in Călin Enăchescu, Florin Gheorghe Filip, Barna Iantovics (eds.) *Advanced Computational Technologies*)	Romanian Academy Publishing House	9	978-973-27-2256-5
15	2012	Costică Lupu	Didactica matematicii pentru învăţământul primar, 393 pagini	Editura PIM, Iaşi	393	978-606-13-1092-0
16	2012	Liliana Mâţă, Andreia Irina Suciu	Curricular innovations in language teacher education. An integrative model for the development of pedagogical competences	Lambert Academic Publishing, Germania	160	978-3-8433-6884-1
17	2012	Liliana Mâţă	The Framework for the Foundation of Education for Private Life. A Holistic Perspective	Lambert AcademicPublishing, Germania	135	978-3-659-28461-8

III. ALTE REALIZĂRI ÎN DOMENIUL CERCETĂRII

Revistele facultății

1. Scientific Studies and Research. Series Mathematics and Informatics (SSRSMI),

ISSN 2067-3566, http://pubs.ub.ro/?pg=revues&rev=ssrsmi. În 2012 au fost editate vol. 22, no. 1 şi vol. 22 no.2, cu 25 de articole totalizând 303 pagini. Dintre lucrările publicate în 2012, 15 au un autor sau mai mulţi din străinătate (Anglia, China, Turcia, Iran, India, Pakistan). A continuat indexarea şi recenzarea în Zentralblatt Math şi Mathematical Reviews, iar din 2012 revista este indexată în Index Copernicus, EBSCO şi Ulrich' Global Serials Directory.

2. Studii şi Cercetări Ştiinţifice. Seria Biologie (SCSB)

ISSN 1224-919X, http://pubs.ub.ro/?pg=revues&rev=scsb. În 2012 au fost editate volumele 21 no.1 (Vegetal Biology) şi vol. 21 no.2 (Animal Biology). Revista este indexată în Master Journal List Thomson Reuters şi Index Copernicus. În 2012 au început demersurile pentru indexarea în EBSCO, care s-au finalizat.

3. Journal of Innovation in Psychology, Education and Didactics (JIPED)

ISSN 2247-4579, http://pubs.ub.ro/?pg=revues&rev=jiped.

Bogdan Pătruţ, membru al Departamentului de Matematică, Informatică şi Ştiinţele educaţiei, editează două reviste ştiinţifice interdisciplinare, în ale căror comitete ştiinţifice se găsesc specialişti importanţi din ţară şi străinătate:

BRAIN- Broad Research in Artificial Intelligence and Neuroscience (ISSN 2067-3957), http://www.edusoft.ro/brain/index.php/brain şi

BRAND-Broad Research in Accounting, Negociation and Distribution (ISSN 2067-8177), http://www.edusoft.ro/brain/index.php/brand

Manifestări ştiinţifice organizate

În anul 2012 au fost organizate sesiuni ştiinţifice studenţeşti, pentru studenţii de la toate programele de studii ale facultăţii:

1. Sesiunea studenţească naţională de comunicări ştiinţifice *Biodiversitate şi tinereţe*, Ediţia a V-a – Bacău – 18 mai 2012.

2. Sesiunea naţională de comunicări ştiinţifice studenţeşti "Rolul matematicii şi informaticii in contextul transformărilor actuale", Ediţia a IV-a – Bacău – 11 mai 2012

3. Conferinţa studenţilor de la specializarea Pedagogia Învăţământului Primar şi Preşcolar, „Performanţă în Educaţie" (PERFORMED) Ediţia a II-a –Bacău, mai 2012.

IV. RECUNOAŞTEREA NAŢIONALĂ ŞI INTERNAŢIONALĂ

Cadrele didactice de la Facultatea de Ştiinţe sunt membre în peste 30 de societăţi ştiinţifice profesionale naţionale şi internaţionale.

Citări 2012

A. Citări în articole publicate în reviste cotate ISI

Articolul citat (autori, titlu, revista, număr, pagini, an)	**Articolul care citează (autori, titlu, revista, număr, pagini, an)**
Crainic TG, Crişan GC, Gendreau M, Lahrichi N, Rei W - Multi-thread Cooperative Optimization for Rich Combinatorial Problems 23rd IEEE International Parallel & Distributed Processing Symposium Rome, Italy, 2009	Vidal, T., Crainic, T.G., Gendreau M., Lahrichi, N., Rei, W., - A Hybrid Genetic Algorithm for Multidepot and Periodic Vehicle Routing Problems, Operations Research, 60, 3, 611-624, 2012
Crainic TG, Crişan GC, Gendreau M, Lahrichi N, Rei W - Multi-thread Cooperative Optimization for Rich Combinatorial Problems 23rd IEEE International Parallel & Distributed Processing Symposium Rome, Italy, 2009	Ediger P., Hoffmann R - Efficiency Analysis of the Time-Shuffling Method for the Evolution of Agent Behavior, International Journal of Foundations of Computer Science 23, 02, 523-542, 2012
Talmaciu, M., Nechita E, Crişan GC - A Recognition Algorithm for a Class of Partitionable Graphs that Satisfies the Normal Graph Conjecture, Studies in Informatics and Control, 18, 349-354, 2009	Talmaciu M - Determination of the Optimally Efficient Sets in Special Classes of Graphs, Studies in Informatics and Control With Emphasis on Useful Applications of Advanced Technology, 21, 4 2012
Mocanu, M, Popa, V: Some fixed point theorems for mappings satisfying implicit relations in symmetric spaces. Libertas Math. **28**, 1–13 (2008)	Zeqing Liu, Xin Li, Shin M Kang **and** Sun Y Cho, Fixed point theorems for mappings satisfying contractive conditions of integral type and applications, Fixed Point Theory and Applications, 2011:64, http://www.fixedpointtheoryandapplications.com/content/2011/1/64 (ISI, Impact factor 1.63)

Mocanu, M, Popa, V: Some fixed point theorems for mappings satisfying implicit relations in symmetric spaces. Libertas Math. **28**, 1–13 (2008)	L. Iric, B. Samet and C. Vetro-Common fixed point theorems for families of occasionally weakly compatible mappings, Mathematical and Computer Modelling: An International Journal, 53 (5-6), 2011, (ISI, impact factor 1.346)-neraportată 2011
Mocanu M., Popa V., Altering distance and common fixed points under implicit relations, Hacettepe Journal of Mathematics and Statistics, vol. 28, no.3, 2009, 329-337	V. Berinde, Approximating fixed points of implicit almost contractions, Hacettepe Journal of Mathematics and Statistics, vol. 41, no.1, 2012, 93-102 (ISI, impact factor 0.354)
Mocanu M., Popa V., Altering distance and common fixed points under implicit relations, Hacettepe Journal of Mathematics and Statistics, vol. 28, no.3, 2009, 329-337	H.K. Nashine, Z. Kadelburg and P. Kumam- Implicit-Relation-Type Cyclic Contractive Mappings and Applications to Integral Equations, Abstract and Applied Analysis, 2012, Article ID 386253, 15 pages, doi:10.1155/2012/386253 (ISI, impact factor 1.318)
Popa V., Patriciu A.-M., A general fixed point theorem for pairs of weakly compatible mappings in G - metric spaces J. Nonlinear Sci. Appl. 6 5(2012), 151-160	F. Gu, Common fixed point theorems for six mappings in generalized metric spaces, Abstract and Applied Analysis, 2012) Article ID 379212, 21 pages, doi:10.1155/2012/379212
Popa V., Patriciu A.-M., A general fixed point theorem for pairs of weakly compatible mappings in G - metric spaces J. Nonlinear Sci. Appl. 6 5(2012), 151-160	F. Gu and H. Ye, Common Fixed Point Theorems of Altman Integral Type Mappings in-Metric Spaces, Abstract and Applied Analysis, 2012, Article ID 630457, 13 pages doi:10.1155/2012/630457
Talmaciu, M., Nechita, E., Recognition algorithm for diamond-free graphs, INFORMATICA Volume: 18 Pages: 457-462	Min Chih Lin, Francisco J. Soulignac, Jayme L. Szwarcfiter, Arboricity, h-index, and dynamic algorithms, Theoretical Computer Science, Volumes 426–427, 6 April 2012, Pages 75–90, (impact factor 0.665)

Talmaciu M., Nechita E., Some Combinatorial Optimization Problems for Weak-Bisplit Graphs, Studies in Informatics and Control, 2010, Vol. 19, No. 4, December 2010, 427-434	R Soto, E Monfroy, Syntax Extensions for a Constrained-Object Language via Dynamic Parser Cooperation (*), Studies in Informatics and Control, Volume: 21, No. 1, 41-48, 2012. (impact factor 0.578)
Talmaciu M., Nechita E., Some Combinatorial Optimization Problems for Weak-Bisplit Graphs, Studies in Informatics and Control, 2010, Vol. 19, No. 4, December 2010, 427-434	Horng, Shih-Cheng; Yang, Feng-Yi; Lin, Shieh-Shing, Embedding evolutionary strategy in ordinal optimization for hard optimization problems, Applied Mathematical Modelling, Volume: 36, Issue: 8, Pages: 3753-3763, 2012 (impact factor 1.579)
T Nalbant, K Battes, F Pricope, D Ureche, First Record Of The Amur Sleeper Perccottus Glenii (Pisces: Perciformes: Odontobutidae) In Romania, Travaux du Museum National d'Histoire Naturelle "Grigore Antipa", vol XLVII, 279-284, 2004	Grabowska J. • Pietraszewski D., Przybylski M. • Tarkan Ali S. • Marszał L. • Lampart-Kałuzniacka M., Life-history traits of Amur sleeper, Perccottus glenii, in the invaded Vistula River: early investment in reproduction but reduced growth rate, Hydrobiologia, 2011, 197-210 (impact factor 1.784), neraportată 2011
Milen V. Vassilev , Teodora A. Trichkova , Dorel Ureche , Ionut Stoica , Karina Battes , Mladen T. Zivkov, Distribution of Gobiid Species (Gobiidae, Pisces) in the Yantra River (Danube Basin, Bulgaria), PROCEEDINGS OF THE ANNIVERSARY SCIENTIFIC CONFERENCE OF ECOLOGY Eds. Iliana G. Velcheva, Angel G. Tsekov • Plovdiv, November 1st 2008 • p. 163-172	Roger Cammaerts, Frank Spikmans, Nils van Kessel, Hugo Verreycken, Frédéric Chérot, Thierry Demoll and Sébastien Richez, Colonization of the Border Meuse area (The Netherlands and Belgium) by the non-native western tubenose goby Proterorhinus semilunaris (Heckel, 1837)***(Teleostei, Gobiidae)***, Aquatic Invasions (2012) Volume 7, Issue 2: 251–258
Pricope F., Ştefănescu G., Ţiţescu G., Cărăuş I., Ureche D., Effect of deuterium-depleted water on	V. V. Goncharuk, V. B. Lapshin et al., Physicochemical

reproduction of rainbow trout, Environamental Chemistry Letters, August 2003, Volume 1, Issue 2, pp 149-151	properties and biological activity of the water depleted of heavy isotopes Journal of Water Chemistry and Technology February 2011, Volume 33, Issue 1, pp 8-13 (impact factor 0.211)
L Momeu, KW Battes, F Pricope, A Avram, KP Battes et al., Preliminary data on algal, macroinvertebrate and fish communities from the Aries catchment area, Transylvania, Romania, Studia Universitatis Babes-Bolyai, 2007,	Oana Teodora Moldovan, Erika Levei, Constantin Marin,, Manuela Banciu, Horia Leonard Banciu, Claudia Pavelescu, Traian Brad, Mirela Cîmpean, Ioana Meleg, Sanda Iepure, Ioan Povară, Spatial distribution patterns of the hyporheic invertebrate communities in a polluted river in Romania, Hydrobiologia July 2011, Volume 669, Issue 1, pp 63-82
L Momeu, KW Battes, F Pricope, A Avram, KP Battes et al., Preliminary data on algal, macroinvertebrate and fish communities from the Aries catchment area, Transylvania, Romania, Studia Universitatis Babes-Bolyai, 2007,	A. Butiuc-Keul, L. Momeu, C. Craciunas C. Dobrota, S. Cuna, G. Balas, Physico-chemical and biological studies on water from Aries River (Romania), Journal of Environmental Management, Volume 95, Supplement, March 2012, Pages S3–S8, Environmental Risks and Problems, Strategies to reduce them through Biotechnology and Engineering

B. Citări în articole publicate în reviste indexate BDI sau în Proceedings

Articolul citat (autori, titlu, revista, număr, pagini, an)	**Articolul care citează (autori, titlu, revista, număr, pagini, an)**
Pintea, CM., Crişan, GC., Chira, C - Hybrid Ant Models with a Transition Policy for Solving a Complex Problem, Logic Journal of the IGPL, 20, 3, 560-569, 2012	Camelia-M. Pintea, Corina Pop Sitar, Mara Hajdu-Macelaru, Pop Petrica A Hybrid Classical Approach to a Fixed-Charged Transportation Problem. Hybrid Artificial Intelligent Systems Lecture Notes in

	Computer Science, 7208, 557-566, 2012
Crainic, TG., Crişan, GC, Gendreau, M, Lahrichi N., Rei, W. - A concurrent evolutionary approach for rich combinatorial optimization. In Proceedings of the 11th Annual Conference Companion on Genetic and Evolutionary Computation Conference, 2017-2022, 2009	Vahed AR, Crainic TG, Gendreau M, Rei W - A Path Relinking Algorithm for a Multi-Depot Periodic Vehicle Routing Problem, Technical report CIRRELT 50-2012, Universite de Montreal
Crainic, TG., Crişan, GC, Gendreau, M, Lahrichi N., Rei, W. - A concurrent evolutionary approach for rich combinatorial optimization. In Proceedings of the 11th Annual Conference Companion on Genetic and Evolutionary Computation Conference, 2017-2022, 2009	Vahed AR, Crainic TG, Gendreau M, Rei W - Fleet-Sizing for Multi-Depot and Periodic Vehicle Routing Problems Using a Modular Heuristic Algorithm, Technical report CIRRELT 51-2012, Universite de Montreal
Crainic TG, Crişan GC, Gendreau M, Lahrichi N, Rei W - Multi-thread Cooperative Optimization for Rich Combinatorial Problems 23rd IEEE International Parallel & Distributed Processing Symposium Rome, Italy, 2009	Vidal T, Crainic TG, Gendreau M, Prins C - Heuristics for Multi-Attribute Vehicle Routing Problems: A survey and synthesis, Technical report CIRRELT 05-2012, Universite de Montreal
Chira, C., Pintea, CM., Crişan, GC, Dumitrescu D - Solving the linear ordering problem using ant models, Proceedings of the 11th Annual Conference on Genetic and Evolutionary Computation, GECCO 2009, 1803–1804. New York 2009	Pop PC, Matei O - A Genetic Programming Approach for Solving the Linear Ordering Problem, Hybrid Artificial Intelligent Systems, Lecture Notes in Computer Science, 7209, 331-338, 2012
Chira, C., Pintea, CM., Crişan, GC, Dumitrescu D - Solving the linear ordering problem using ant models, Proceedings of the 11th Annual Conference on Genetic and Evolutionary Computation, GECCO 2009, 1803–1804. New York 2009	Kromer P, Platos J, Snasel V - Practical results of artificial immune Systems for combinatorial optimization problems, Fourth World Congress on Nature and Biologically Inspired Computing (NaBIC), 194-199, 2012
Crişan, GC, Nechita E - Solving Fuzzy TSP with Ant Algorithms, International Journal of Computers, Communications and Control, III (Suppl issue: Proceedings of ICCCC 2008), 228-231	Kumar, Amit, Anila Gupta - Assignment and Travelling Salesman Problems with Coefficients as LR Fuzzy Parameters, International Journal of Applied Science and Engineering, 10, 3, 155-170, 2012
Mocanu, M, Popa, V: Some fixed point theorems for mappings satisfying implicit relations in symmetric spaces. Libertas Math. **28**, 1–13 (2008)	Zeqing Liu, Haijiang Dong, Chahn Yong Jung, Shin Min Kang-Fixed and periodic points for mappings satisfying contractive conditions of

	integral type, International Journal of Pure and Applied Mathematics, 76 (3) (2012), 355-369
Popa Valeriu, Mocanu Marcelina, Altering distance and common fixed points under implicit relations, Hacettepe Journal of Mathematics and Statistics, vol. 28, no.3, 2009, 329-337	José R. Morales and Edixon Rojas, Some fixed point theorems by altering distance functions- Palestine J. of Mathematics, 1 (2), 2012, 110-116
Popa Valeriu, Mocanu Marcelina, Altering distance and common fixed points under implicit relations, Hacettepe Journal of Mathematics and Statistics, vol. 28, no.3, 2009, 329-337	M. Sharma and A.S. Saluja- Some Fixed Point Theorems By Using Altering Distance Functions, IOSR Journal of Engineering (IOSRJEN) ISSN: 2250-3021 Volume 2, Issue 6 (June 2012), 1462-1472
Mocanu, M, Popa, V: Some fixed point theorems for mappings satisfying implicit relations in symmetric spaces. Libertas Math. **28**, 1–13 (2008)	V. Popa, A.M. Patriciu- A Common Fixed Point Theorem for Occasionally Weakly Compatible Mappings Satisfying an Implicit Relation without Decreasing Assumption and Applications, Bul. Inst. Politehnic Iaşi, Secţia Matematică, Mecanică teoretică, Fizică, , tome LVIII (LXII), fasc.2, 2012, 1-10
Mocanu, M, Popa, V: Some fixed point theorems for mappings satisfying implicit relations in symmetric spaces. Libertas Math. **28**, 1–13 (2008)	Popa, A.M. Patriciu- Fixed Point Theorems by Altering Distances for Occasionally Weakly Compatible Hybrid D-Mappings and Applications, Acta Universitatis Apulensis, 31 (2012), 223-239
Nimineţ V., New geometrical properties of generalized Lagrange spaces of relativistic optics, Tensor N.S., 2007	P. N. Pandey and S. K. Shukla, "On almost φ-Lagrange spaces, ISRN Geometry, 2011, Article ID 505161, 16 pages

Brudaru O., Ebendt R., Furdu Iulian, Optimizing Variable Ordering of BDDs with Double Hybridized Embryonic Genetic Algorithm, SYNASC, 2010 12th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, 167-173	Rotaru C, Brudaru O., Dynamic segregative genetic algorithm for optimizing the variable ordering of ROBDDs, Proceedings of the fourteenth international conference on Genetic and evolutionary computation conference GECCO '12, 657-664
Brudaru O., Ebendt R., Furdu Iulian, Optimizing Variable Ordering of BDDs with Double Hybridized Embryonic Genetic Algorithm, SYNASC, 2010 12th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, 167-173	S Chaudhury, A Dutta, Algorithmic Optimization of BDDs and Performance Evaluation for Multi-level Logic Circuits with Area and Power Trade-offs, Circuits ans Systems, 2011, 2, 217-224 (neraportată 2011)
Vârlan Simona Elena, Knowledge Representation in the Context of E-business Applications, BRAND 2010	Mekdi,M., Abstraction of informed virtual geographic environments, Geo-Spatial Information Science, vo. 15, no. 1, 2012, 27-36
Cojocariu V.M., Nechita Z., On a Programme for Stimulating the Elementary Pupil's Emotional Intelligence through the Educational Process, Procedia-Social and Behavioral Sciences, vol. 11, 2011, 261-265	Paria Karimi, Moien Kloshani and Alireza Bakhshizadeh, A comparative study on emotional intelligence and cognitive between successful and unsuccessful entrepreneurs. Management Science Letters, 2 (2012), 2071-2076
Cojocariu V.M., Active Learning–Value and Applicability, Buletinul Universităţii Petrol–Gaze din Ploieşti, vol. LXII, no. 1B/2010	ПЕДАГОГИЧЕСКАТА ИНТЕРАКТИВНОСТ Иван П. Иванов. Иновации и интерактивни технологии в образованието. – С., 2012,91-99.
Cojocariu V.M., Active Learning–Value and Applicability, Buletinul Universităţii Petrol–Gaze din Ploieşti, vol. LXII, no. 1B/2010	Once more on the pedagogical interactivity, Ivan P. Ivanov, Годишник на ШУ „Еп. Константин Преславски", Том XVI D, Педагогически факултет, - Ш., 2012, 209-214.

Moales D., Spac A.F., **Prisecaru Maria**, Butnaru E., Determining the concentration of methanol from natural distillate, Scientific Studies and Research. Series Biology, 2010	E Rusu, C Socaciu, F Fetea, F Ranga , Phenolic Derivatives as Authenticity Markers of Traditional Homemade Brandies from Different Counties of Transylvania, Using UV-VIS and HPLC, Buletin USAMV, 2011 (neraportată 2011)
Ghiorghiţă G., Maftei D. E., Nicuţă D., Some aspects concerning the *in vitro* reaction of *Lavandula angustifolia* L., Propagation of Ornamental Plants 2009 Vol. 9 No. 1 pp. 47-49	L.A. Biasi, Lavandula calli induction, growth curve and cell suspension formation, Rev. Bras. Ciênc. Agrár. Recife, 2012
Ureche Camelia, Invasive Leaf Miner Insects in Romania, IUFRO Working Party 7.03.10 Proceedings of the Workshop 2006, Gmunden/Austria, 259-262	Retevoi Romeo, The influence of parasites on harmful insects of the deciduous forests of the north of Argeş county, Advances in Environmental Sciences, 4 (1) (2012), 1-4
Ureche Camelia, Invasive Leaf Miner Insects in Romania, IUFRO Working Party 7.03.10 Proceedings of the Workshop 2006, Gmunden/Austria, 259-262	Jurc Maja, The Lime Leafminer (Phyllonorycter Issikii) in Slovenia, Šumarski list, Vol.136 No.3-4 Travanj 2012, 119-127
Pricope F., Ştefănescu G., Ţiţescu G., Cărăuş I., Ureche D., Effect of deuterium-depleted water on reproduction of rainbow trout, Environamental Chemistry Letters, August 2003, Volume 1, Issue 2, pp 149-151	Feng Huang and Changgong Meng Method for the Production of Deuterium-Depleted Potable Water, *Ind. Eng. Chem. Res.*, 2011, 50 (1), pp 378–381

C.Citări în cărţi de specialitate, monografii, tratate

Nr.	Articolul citat (autori, titlu, revista, număr, pagini, an)	Cartea care citează (autori, titlu, editură, an, ISBN, pagini)
1	Pătruţ Bogdan, Vârlan Simona Elena, Socaciu Tiberiu - "ContTest - a Multi-Agent System for Accounting Education", 2008, 3rd International Multi-Conference on Computing in the Global Information Technology, IEEE, 2008, 217-222 (ICCGI 2008).	OL Ayoola, EM Phela - "Crafting a Personalised Agent-Oriented Mobile E-Learning Platform for Adaptive Third Level Education" in "Multi-Agent Systems for Education and Interactive Entertainment: Design, Use and Experience", Editors: Maria Fasli,Martin Beer,Debbie Richards, Information Science Reference (IGI Global), 2011, ed. 1,pag. 235, ISBN 978-1609600808
2	Mocanu M., On the minimal weak upper gradient of a Banach–Sobolev function on a metric space. Sci. Stud. Res. Ser. Math. Inform. **19** (2009), 119–129.	Andreas Björn and Jana Björn, Nonlinear Potential Theory on Metric Spaces, European Mathematical Society (EMS) Tracts in Mathematics, November 2011, ISBN 978-3-03719-099-9, 403 pp.
3	M. Mocanu, A generalization of Orlicz–Sobolev capacity in metric measure spaces. *Sci.Stud. Res. Ser. Math. Inform.* **19** (2009), 319–334.	Andreas Björn and Jana Björn, Nonlinear Potential Theory on Metric Spaces, European Mathematical Society (EMS) Tracts in Mathematics, November 2011, ISBN 978-3-03719-099-9, 403 pp.
4	M. Mocanu, A generalization of Orlicz–Sobolev spaces on metric measure spaces via Banach function spaces. *Complex Var. Elliptic Equ.* **55** (2010), 253–267.	Andreas Björn and Jana Björn, Nonlinear Potential Theory on Metric Spaces, European Mathematical Society (EMS) Tracts in Mathematics, November 2011, ISBN 978-3-03719-099-9, 403 pp.
5	M. Mocanu, A Poincaré inequality for Orlicz–Sobolev functions with zero boundary values on metric spaces. *Complex Anal. Oper. Theory* **5** (2011), 799–810.	Andreas Björn and Jana Björn, Nonlinear Potential Theory on Metric Spaces, European Mathematical Society (EMS) Tracts in Mathematics, November 2011, ISBN 978-3-03719-099-9, 403 pp.

V. CONCLUZII

Din analiza datelor prezentate rezultă următoarele:

În anul 2012 au fost publicate de către cadrele Facultăţii de Ştiinţe (sau de cele care raportează activitatea de cercetare la Facultatea de Ştiinţe) **24** de cărţi şi cursuri universitare, dintre care 10 în edituri din străinătate (9 din Germania). Au fost publicate în reviste cotate **ISI** un număr de **12** lucrări, Au fost publicate în reviste BDI un număr de **51** de lucrări ştiinţifice. Membrii Facultăţii au prezentat 37 lucrări la conferinţe internaţionale şi 6 lucrări la conferinţe naţionale cu participare internaţională, dintre care 2 au fost publicate în reviste cotate ISI, 6 au fost publicate în reviste BDI şi 10 au fost publicate în Proceedings (incluzând 2 Proceedings ISI).

Activitatea de cercetare ştiinţifică s-a concretizat în participarea cadrelor Facultăţii de Ştiinţe (sau a celor care raportează activitatea de cercetare la Facultatea de Ştiinţe) la realizarea a 5 contracte de cercetare (ca directori) şi a altor 6 contracte (ca membri în echipele de cercetare). Au fost propuse **5** noi proiecte în competiţii.

În vederea îmbunătăţirii activităţii de cercetare pe anul 2013 ne propunem următoarele acţiuni şi direcţii de dezvoltare:

- Depunerea unor noi propuneri de proiecte de cercetare;
- Creşterea numărului contractelor de cercetare şi a granturilor câştigate prin competiţie;
- Intensificarea colaborărilor internaţionale, dar şi a celor naţionale, în activitatea de cercetare
- Publicarea a cel puţin 6 lucrări în reviste cotate ISI cu factor de impact
- Publicarea unui număr mai mare de cărţi şi monografii în edituri internaţionale, precum şi acoperirea a cel puţin 90% din discipline cu cărţi didactice şi cursuri universitare;

- Organizarea mai eficientă a activității centrelor de cercetare și integrarea lor în Institutul de Cercetare, Dezvoltare, Inovare, Consultață și Transfer Tehnologic al UVAB.
- Creșterea calității și a gradului de vizibilitate pentru cele trei reviste științifice editate de către cadrele Facultății de Științe, în cadrul Editurii Alma Mater Bacău
- Organizarea următoarelor manifestări științifice:
  1. **Ecologia și protecția ecosistemelor** (ediția a X-a) - Bacău, noiembrie 2013
  2. **"Gheorghe Vrănceanu"** National Conference on Mathematics and Informatics with international participation-Bacău, May 30-31, 2013
  3. **WORCS.** Workshop on Computational Sustainability- Bacău, May 30-June 1, 2013

DECAN

Prof. univ. dr. Mihai Talmaciu

Prodecan cu probleme de management al cercetării științifice și relații internaționale,

Conf. univ. dr. Marcelina Mocanu

Data: 25.02. 2013

Aprobat în Ședința de Consiliu al Facultății din 26.02.2013