

Raport de cercetare pe 2009

I. Lucrari in jurnale cotate ISI

1. **D. Popa** - Reverse inclusions for multiple summing operators, J. Math. Anal. Appl. 350, No. 1, 360-368 (2009).
2. **D. Popa** - A remark on Bochner integrability, Quaestiones Mathematicae 2009, 32 (1), p.1-3. (n-are FI)
3. **D. Popa**, 2-Summing operators on $C([0, 1], l_p)$ with values in l_1 , Proceedings of the Indian Academy of Sciences-Mathematical Sciences, vol. 119, no. 1, april 2009, p. 221-230, Copublishing Arrangement with Springer.
4. M. Ionescu, **D. Sburlan** – “Notes on P Systems with Adjoining Controlled Communication Rules”, International Journal of Unconventional Computing, (OCP Science, Philadelphia, USA), 5 (2009), pp. 441-457. (n-are FI)
5. **A. Olteanu** - Constructible ideals. Communications in Algebra 37, Issue 5 (2009) , p. 1656 – 1669.
6. T. Sadowski, L. Marsavina, N. Peride, **E.-M. Craciun** – “Cracks propagation and interaction in an orthotropic elastic material: Analytical and numerical methods”, Computational Materials Science 46 (3), p. 687-693, (2009).
7. A. Carabineanu, N. Peride, E. Rapeanu, **E.M. Craciun** – “Mathematical modelling of the interface crack. A new improved numerical model”, Computational Materials Science 46 (3), p. 677-681, (2009).
8. N. Peride, A. Carabineanu, **E.M. Craciun** – “Mathematical modelling of the interface crack propagation in a pre-stressed fiber elastic composite” , Computational Materials Science, 45(3), p. 684-692, (2009).
9. **L. Barbu**, E. Cosma - "Elliptic Regularizations for the Nonlinear Heat Equation". Journal of Mathematical Analysis and Applications 351 (2009), pp. 392-399.
10. A. Agnew, **A. Bobe**, **W. Boskoff**, B. Suceava – “Gheorghe Titeica and the origins of affine differential geometry”. Historia Mathematica 36 (2), (2009), 161-170.
11. **C. Costara** – “Commuting holomorphic mappings on the spectral unit ball”. Bull. London Math. Soc. 41 (2009), p. 57-62. ***(nu e cu afilierea la Univ. Ovidius)***

Lucrari in jurnale indexate ISI (categoria A CNCSIS)

1. **M. Stefanescu** and M. Tarnauceanu – “Counting maximal chains of subgroups of finite nilpotent groups”. Carpathian Journal of Mathematics 2009, vol. 25, no.1, 119-127.
2. **D. Sburlan** – “On Parallel Graph Rewriting Systems”. International Journal of Computers, Communications & Control, 4, 3 (2009), 283-290.
3. Teodorescu, S. and **Vernic, R.**- “Some composite exponential-pareto models for actuarial prediction”. Romanian Journal of Economic Forecasting 12 (4), 82-100, 2009.
4. A. Băutu, **E. Băutu** - "Energy Minimization of Point Charges on a Sphere with Particle Swarms", Romanian Journal of Physics, Volume 54, Issue 1-2, (2009), online www.nipne.ro/rjp/2009_54_1-2/0029_0037.pdf
5. Gh. Juncu, **A. Nicola**, **C. Popa**, **T. Udrescu** – “Nonlinear multigrid methods for solving Richards’ equation in two space dimensions”. Carpathian Journal of Mathematics, vol.25, (1), 82-91, 2009. http://carpathian.ubm.ro/issues/Carpathian_2009_25_No_1_82_91.pdf
6. **A. Nicola** and **C. Popa** – “Sparse Matrix Techniques in Scientific Computing”. Studies in Informatics and Control, Vol. 18, No.1, p. 33-39, 2009.

7. **D.M. Popovici**, J.P. Gerval, F. Hamza-Lup, R. Querrec, M. Polceanu, N. Popovici, R. Zagan – “3D virtual spaces supporting engineering learning activities”, International Journal of Computers, Communications & Control, ISSN 1841-9836, E-ISSN 1841-9844, Vol. IV (2009), No. 4, pp. 401-414.
8. **D.Savin, C.Flaut, C.Ciobanu** – “Some properties of the symbol algebras”, Carpathian Journal of Mathematics , vol 26/2009 ,no.2, p.228-234.
9. **A. Bărbulescu**, C. Koncsag – “Mass transfer at Propanethiol - Butanethiol Alkaline Extraction from Sour Petroleum Fraction”, Revista de Chimie, Vol.60, No.4, Aprilie 2009, pp. 414-418, IF: 0.261 (ISSN 0034 – 7752).
10. **C. Flaut, M. Stefanescu** – “Some equations over generalized quaternion and octonion division algebras”, Bull. Math. Soc. Sci. Math. Roumanie, 52 (100), no. 4, p. 427-439, 2009, 458 cod CNCISIS.(cat A-ISI-CNCISIS)

Proceedings of the 5-th ICDSA conference

11. **A. Bărbulescu** and **E. Băutu** - "Alternative Models in Precipitation Analysis", Analele Stiintifice ale Universitatii Ovidius Constanta, Seria Matematica, vol.17 (3), 45-68, (2009), 5-th ICDSA conference.
12. **R. Vernic**, S Teodorescu and **E. Pelican** – “Two LogNormal models for real data”. Analele Stiintifice ale Universitatii Ovidius Constanta, Seria Matematica, vol.17 (3), 263-279, (2009), 5-th ICDSA conference.
13. **C. Sburlan** - "Numerical Discrete Algorithm for Some Nonlinear Problems". Analele Stiintifice ale Universitatii Ovidius Constanta, Seria Matematica, vol.17 (3), 251-262, (2009), 5-th ICDSA conference.
14. L. Marsavina, **E.-M. Craciun** – “The asymptotic stress field for free edge joints under small-scale yielding conditions”, Analele Stiintifice ale Universitatii Ovidius Constanta, seria Matematica, vol.17 (3), 171-181, (2009), 5-th ICDSA conference.
15. **D. Savin** – “About a Diophantine Equation”. Annals of the University „Ovidius“ of Constanta, Romania, Ser. Mat., 17 (3), 241-250, (2009), 5-th ICDSA conference.

OnlineFirst

1. I. Cristea and **M. Stefanescu** – “Hypergroups and n-ary relations”. European Journal of Combinatorics, online 6 Aug. 2009.
2. **A. Bărbulescu** and **E. Băutu** - “Mathematical models of climate evolution in Dobrudja”, Theoretical and Applied Climatology, 2009, online: <http://dx.doi.org/10.1007/s00704-009-0160-7>.
3. **Vernic, R.** – “Tail Conditional Expectation for the multivariate Pareto distribution of the second kind: another approach”. To appear in Methodology and Computing in Applied Probability.
4. **Vernic, R.**, Dhaene, J., Sundt, B.- “*Inequalities for the De Pril approximation to the distribution of the number of policies with claims*”. To appear in Scandinavian Actuarial Journal (prezentată la RoGerS Symposium on Mathematics and its Applications, Sibiu, May 14-17, 2009).
5. Gh. Juncu, **A. Nicola, C. Popa** – “Nonlinear Multigrid Methods for Numerical Solution of the Unsaturated Flow Equation in Two Space Dimensions”. Transport in Porous Media, acceptata spre publicare 20 august 2009.
6. **C. Popa** – “Iterative Solvers for Tikhonov Regularization of Dense Inverse Problems”. Accepted for publication in International Journal of Computer Mathematics.

II. Carti

Internationale

1. B. Sundt and **R. Vernic** – *Recursions for convolutions and compound distributions with insurance applications*. EAA Lecture Notes, Springer 2009, 345 pg.
2. **Ene V.** - *Combinatorial Commutative Algebra and Computer Algebra*, Proceedings of an Exploratory Workshop on Combinatorial Commutative Algebra and Computer Algebra held in Mangalia, Romania, May 29-31, 2008. Contemporary Mathematics, vol. 502, American Mathematical Society, Providence, RI, 2009. vii+184pp. (Coeditor cu Ezra Miller)

Naționale

1. **Ene V.** - *Baze Groebner si aplicatii*, Ovidius University Press, 2009, ISBN 978-973-614-497-4, 90 pag. (Cod CNCSIS 192).
2. **C. Flaut** - *Algoritmica grafurilor*, Ovidius University Press, Constanta, 2009, ISBN 978-973-614-438-7, 112 pagini, cod CNCSIS 192.
3. **C. Flaut** - *Elemente de criptografie. Criptosisteme simple*, partea I, Ovidius University Press, Constanta, 2009, ISBN 978-973-614-398-4, 110 pagini, cod CNCSIS 192.

III. Lucrari BDI

1. **A. Bărbulescu** and **E. Băutu** - "ARIMA and GEP models for climate variation", International Journal of Mathematics and Computation, Volume 3, Issue J09, 2009, online <http://ceser.res.in/ceserp/index.php/ijmc/article/view/85>
2. **A. Bărbulescu** and **E. Băutu** - "Time Series Modeling using an Adaptive Gene Expression Programming Algorithm", International Journal of Mathematical Models And Methods In Applied Sciences, Issue 2, Volume 3, 2009, pp. 85-93.
3. **W.G.Boskoff, L.Homentcovschi**, B.D.Suceava – “Some theorems about perpendicular lines proved with an extension of Pithagora’s theorem”. The Mathematical Gazette, (London), 93, 1, (2009), 45-52.
4. Al.Agnew, **A..Bobe, W.G.Boskoff, L.Homentcovschi**, B.D.Suceavă – “The Equation of Euler's Line Yields a Tzitzeica Surface”. Elemente der Mathematik 64 (2), (2009), 71-80.
5. **D.Savin** – “On the Diophantine Equation $x^4 - q^4 = py^5$ ”. Italian Journal of Pure and Applied Mathematics no.26, p.103-108.
6. Lascu, D., **Cirilig, G.**, Coltescu, I. – “Properties of the nearest integer continued fraction expansions”, Tensor, N.S., 71, 1 (2009), 25-30. (Zmath)
7. **C. Flaut**, F. Ghionea – “Some properties of the line graph associated to a graph G”, Italian Journal of Pure and Applied Mathematics, nr. 25, 165-174, 2009. <http://ijpam.uniud.it/journal/abstracts.htm>

IV. Lucrari in proceedings-uri internationale

ISI proceedings

1. **E. Băutu**, Sun Kim, A. Băutu, H. Luchian, and Byoung-Tak Zhang - "Evolving Hypernetwork Models of Binary Time Series for Forecasting Price Movements on Stock Markets", IEEE Congress on Evolutionary Computation (CEC 2009), pp. 166-173, 2009.
2. **A. Bărbulescu** and **E. Băutu** - "ARIMA models versus gene expression programming in precipitation modeling". In Proceedings of the 10th WSEAS international Conference on Evolutionary Computing (Prague, Czech Republic, March 23 - 25, 2009). N. E.

Mastorakis, A. Croitoru, V. E. Balas, E. Son, and V. Mladenov, Eds. Artificial Intelligence Series. World Scientific and Engineering Academy and Society (WSEAS), Stevens Point, Wisconsin, 112-117.

3. **A. Bărbulescu** and **E. Băutu** - "Meteorological time series modeling using an adaptive gene expression programming". In Proceedings of the 10th WSEAS international Conference on Evolutionary Computing (Prague, Czech Republic, March 23 - 25, 2009). N. E. Mastorakis, A. Croitoru, V. E. Balas, E. Son, and V. Mladenov, Eds. Artificial Intelligence Series. World Scientific and Engineering Academy and Society (WSEAS), Stevens Point, Wisconsin, 17-22.
4. **A. Barbulescu, E. Pelican** - ARIMA models for the analysis of the Precipitation Evolution. Proceedings of the 13th WSEAS International Conference on COMPUTERS, ISBN: 978-960-474-099-4, ISSN: 1790-5109, 2009.
5. **E. Zaharescu** – “Morphological Algorithm for Color Objects Classification”. Proceedings of the Fourth Balkan Conference in Informatics, 17-19 September Thessaloniki, Greece, IEEE Computer Society, Library of Congress No. 2009934322, ISBN 978-0-7695-3783-2.

International proceedings

1. F.G. Hamza-Lup, P.T. Goeser, W. Johnson, T. Thompson, E. Railean, **D.M. Popovici**, G. Hamza-Lup – “Interactive 3D Web-Based Environments for Online Learning: Case Studies, Technologies and Challenges”. 2009 International Conference on Mobile, Hybrid, and On-line Learning, pg. 13-18, ISBN: 978-0-7695-3528-9, IEEE Computer Society.
2. **Pelican E.** și **Vernic, R.** - “The bivariate log-skew-normal distribution. Numerical aspects”. Proceedings of the 6th Congress of Romanian Mathematicians, Ed. Academiei Romane, București 2009, pp.365-372.
3. P. Catana and **D. Pascali** – On semilinear spectral theory. Proceedings of the 6th Congress of Romanian Mathematicians, Ed. Academiei Romane, București 2009, pp.331-335.
4. **D. Sburlan** – “Parallel Graph Rewriting Systems”, BWMC'2009, Sevilla, Spain, RGNC Report 1/2009, Fenix Ed., 225-235.
5. **E. Băutu** and **A. Bărbulescu** - "Forecasting Financial Time Series with a Hybrid ARIMA-GEP Approach", in Proceedings of the 9th Balkan Conference on Operational Research (Constanta, Romania, September 02-06, 2009), V. Preda and I. Mierlus-Mazilu Eds, ISBN 973-86979-9-9.
6. **E. Pelican, L. Greco** - "Low-Rank Matrix Methods in Pattern Recognition". Proceedings of the 9th Balkan Conference on Operational Research (BALCOR)", Constanta, 2009.
7. **Vernic, R.** and **Pelican, E.** - “An estimation procedure for Sarmanov’s distribution parameters”. Proceedings of the 9th Balkan Conference on Operational Research (BALCOR)", Constanța, Romania, 2-6 September 2009.
8. **E. Zaharescu, G.A. Zaharescu** – “New Logarithmic Morphological Operators Used in Image Processing”. Proceedings of the 9th Balkan Conference on Operational Research (BALCOR)", Constanta, 2009.
9. **E. Zaharescu** – “E-Commerce Servers Traffic Statistics and Optimization”. Proceedings of the 9th Balkan Conference on Operational Research (BALCOR)", Constanta, 2009.

10. **C. Bogdan** - "Domain Ontology of the Roman Artifacts found in the Tomis Fortress", Proceedings of the 2nd International Conference on Knowledge Engineering: Principles and Techniques (KEPT), Cluj-Napoca, Romania, ISSN 1224-869x, pag. 89-92, 2009.
11. **D. Ibadula** – "The Igusa Zeta Functions of the $GL_2(\mathbb{Q}_p)$ -orbit of Fermat's Binary Form", Combinatorial Aspects of Commutative Algebra, Contemporary Mathematics (CONM), AMS, Proceedings of the "Conference on Combinatorial Commutative Algebra and Computer Algebra", 2009, 59-72.
12. V. Bonanzinga, **V. Ene**, **A. Olteanu**, and L. Sorrenti - An overview on the minimal free resolutions of lexsegment ideals. Combinatorial Aspects of Commutative Algebra, Contemporary Mathematics (CONM), AMS, Proceedings of the "Conference on Combinatorial Commutative Algebra and Computer Algebra", 2009, 5-24.
13. C. Maftai, **A. Bărbulescu** - Frequential Models for the Precipitation Evolution in Romania, Proceedings of the 5-th International Conference "Dynamical Systems and Applications", Ovidius University Annals Series: Civil Engineering, Volume 1, Special Issue, 11, June 2009, pp. 73 – 80 (jurnal categoria B).
14. **C. Bogdan**, L.D. Serbanati – "Concern-Oriented and Ontology Based Analysis of Information Systems", „Information Systems: People, Organizations, Institutions, and Technologies" book, The Italian Association for Information Systems, A. D'Attri and D. Saccà Eds., XX, 416 p. 59 illus., Hardcover ISBN: 978-3-7908-2147-5, Springer-Verlag, 2009.

V. Lucrari prezentate la conferinte internationale

1. Asimit, A., Furman, E. and **Vernic, R.** – "On a Multivariate Pareto Distribution". 13th International Congress on Insurance: Mathematics and Economics, Istanbul, May 2009.
2. **Vernic, R.**, Teodorescu, S. and **Pelican E.** – "Two LogNormal models for real data". The 5th ICDSA Conference, June 15-18, Constanța 2009.
3. **E. Băutu**, A. Băutu, H. Luchian - "Stock Market Trend Forecasting with GEP Ensembles", Natural Computing and Applications Workshop, 11th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, Timisoara, Romania, (2009).
4. **O. Chelai** – "A Conceptual Architecture for Context Control". The 5-th International Conference Dynamical Systems and Applications, June 15-18, 2009, Constantza.
5. **O. Chelai** – "A Conceptual Architecture for Context-aware Systems". The 11-th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, 26-29 September 2009, Timisoara, Romania.
6. T. Sadowski, L. Marsavina, **E-M. Craciun** - "On the problem of cracks propagation in orthotropic polymer matrix composite under uniaxial tension". 18th International Conference on Computer Methods in Mechanics CMM 2009, Zielona Gora, Poland, 18-21 May 2009.
7. **E-M Craciun**, L. Marsavina, N. Peride, T.Sadowski – "Parallel cracks in a pre-stressed orthotropic elastic material. I. Analytical and numerical study". IWCMM 19, Universitatatea Ovidius Constanta, 2-5 Septembrie 2009.
8. T.Sadowski, L. Marsavina, M. Kneć, **E-M Craciun** – "Parallel cracks in a pre-stressed orthotropic elastic material. II. Experimental study". IWCMM 19, Universitatatea Ovidius Constanta, 2-5 Septembrie 2009.

9. **D.M. Popovici, C. Bogdan, C. Amariei, C. Stefanescu** – “VirDenT Domain Model”, The VII-th International Congress of Oral Health and Dental Management in the Black Sea Countries, 23-27 Mai, Istanbul, Turcia, 28-30 Mai 2009, Constanta, Romania .
10. **C. Bogdan, D.M. Popovici, L. Petcu, A. Zaharia** – “VirDenT Information System Analysis”, The VII-th International Congress of Oral Health and Dental Management in the Black Sea Countries, 23-27 Mai, Istanbul, Turcia, 28-30 Mai 2009, Constanta, Romania.
11. **D. Ibadula** – “Computing the Igusa local zeta function of some forms”. LIB60BER, Topology of Algebraic Varieties, A conference in honour of the 60th Birthday of Anatoly Libgober, Jaca, Spania, iunie 2009.
12. **D. Ibadula** – “On the Igusa Local Zeta Functions of the Nondegenerate Plane Cubic Forms”, comunicare la Number Theory and Algebraic Geometry Seminar of KULeuven, Katholieke University of Leuven, Belgium, 25 february 2009.
13. **A. Nicola and C. Popa** – “Extended and Constrained Diagonal Weighting algorithm for image reconstruction”. Talk at Lehrstuhl fur Bildverarbeitung, Mustererkennung und Computergrafik, Ruprecht - Karls - Universitat Heidelberg, 24 March 2009.
14. J.-P. Gerval, **D.-M. Popovici, A. Assoum, Y. Le Ru, M. Polceanu** – “A Digital Environment Dedicated to Distributed and Cooperative Practical Activities”. Acceptata la Computers and Advanced Technology in Education, CATE 2009, noiembrie, 2009.
15. **A. Alexandrescu** – “Enterprise software development using the REA model”. International Conference on Sciences November 12-13, 2009, Oradea, Romania.

VI. Conferinte nationale

Lucrari prezentate

1. **L. Grecu, A. Nicola** - "Some results on simultaneous algebraic techniques in image reconstruction from projections", prezentata la conferinta CAIM, Constanta, 2009.
2. **A. Nicola and C. Popa** – “Kaczmarz Extended versus augmented system solution”. Paper presented at CAIM 2009 Conference, Constanta, September 17 - 20, 2009.
3. **A. Nicola and L. Grecu** – “Some results on simultaneous algebraic techniques in image reconstruction from projections”. Presented at CAIM 2009 Conference, Constanta, September 17 - 20, 2009.
4. Teodorescu, S. and **Vernic, R.** - “On composite Pareto models”. A 12-a Conferința SPSR, 10 aprilie, Constanța 2009.
5. **Vernic, R.** and Teodorescu, S. - “LogNormal mixture models with insurance applications”. A 12-a Conferința SPSR, 10 aprilie, Constanța 2009.
6. **A. Leahu, C. Lupu** – “On the binomially mixed exponential lifetime distributions”. A 12-a Conferința SPSR, 10 aprilie, Constanța 2009.

Lucrari aparute in proceedings-uri nationale

1. **A. Nicola, S. Petra, C. Popa, C. Schnorr** – “Enhancing Sparsity by Constraining Strategies: Constrained SIRT versus Spectral Projected Gradient Methods”, accepted for publication in Proceedings of the 6th and 7th Workshops on Mathematical Modelling on Environmental and Life Sciences Problems, September 5-9, 2007 and October 22-25, 2008, Constanta, Romania.

2. T. Duluman, **C. Popa** – “New developments on constrained projection algorithms for image reconstruction”, accepted for publication in Proceedings of the 6th and 7th Workshops on Mathematical Modelling on Environmental and Life Sciences Problems.
3. Gh. Juncu, **A. Nicola, C. Popa** – “Nonlinear iterative methods for water flow in variably saturated porous media”, accepted for publication in Proceedings of the 6th and 7th Workshops on Mathematical Modelling on Environmental and Life Sciences Problems.
4. Gh. Juncu, **A. Nicola, C. Popa, T. Udrescu** – “Nonlinear Multigrid Methods for Groundwater Flow Problems”, accepted for publication in Proceedings of the 6th and 7th Workshops on Mathematical Modelling on Environmental and Life Sciences Problems.

VII. Alte lucrari – capitole in carti, categoria B+, B, preprinturi

1. **D. Pascali** – On variational inequalities involving mappings of type (S). Nonlinear Analysis and Variational Problems, Springer 2009, pp. 441-449.
2. M. Cavaliere, **D. Sburlan** – “Membrane Computing and Computer Science”. Chapter in The Handbook of Membrane Systems, Oxford University Press, 2009 (ISBN 9780199556670)
3. R. Ceterchi, **D. Sburlan** – “Time in Membrane Computing”. Chapter in The Handbook of Membrane Systems, Oxford University Press, 2009 (ISBN 9780199556670)
4. A. Băutu, **E. Băutu** - "Particle Swarms in Statistical Physics". Particle Swarm Optimization, InTech Education and Publishing, Vienna, Austria, p.77 - 89, online: <http://intechweb.org/book.php?id=155>, 2009.
5. **W.G.Boskoff, L.Homentcovschi** – “Rezolvarea unei probleme in cadrul geometriei absolute”. Gazeta Matematica B, 114, nr.2 (2009), 68-70.
6. **A. Boabe, W. Boskoff** – “Clifford chain for equal ellipses”. Gazeta Matematica A, 1 (2009), 32-36.
7. D. Chendra, **C. Flaut**, M. Polceanu – “Teste de primalitate si de factorizare. Aplicatii”, Gazeta Matematica, serie A, nr. 1, 2009, pag. 37-42.
8. M. Trifan, **G. Cirlig**, D. Lascu – “Bogdanov-Takens singularities in an epidemic model”. Romai Journal, 5, 1 (2009), 155-162.
9. **G. Cirlig** – “The use of MAPLE in the study of dynamical systems”. Constanta Maritime University Annals, vol XII, year 10 (2009), 189-194.
10. **L. Grecu, A. Nicola** - Some results on simultaneous algebraic techniques in image reconstruction from projections. Romai Journal, 5, 2 (2009), 81-98.
11. **D. Ibadula** – “On the Rationality of Igusa Zeta Function of Some Classes of Polynomials”. Analele Universitatii Bucuresti, seria Matematica, nr. 2/2009, pp.125-136.
12. A. Bautu and **E. Bautu** - Agent Based Simulation of Oshore Oil Pollution, Analele Universitatii de Vest, Timisoara, Seria Matematica - Informatica, XLVII, 2, (2009), 3-11
13. **A. Nicola, C. Popa**, U. Rude – “On a regularization technique for Kovarik-like approximate orthogonalization algorithms”, Lehrstuhlbericht 09-14 (2009), Institut fur Informatik, Lehrstuhl fur Informatik 10 (Systemsimulation), Friedrich-Alexander-Universitat Erlangen-Nurnberg.
14. **A. Nicola, C. Popa**, U. Rude – “Projection algorithms with correction”, Lehrstuhlbericht 09-15 (2009), Institut fur Informatik, Lehrstuhl fur Informatik 10 (Systemsimulation), Friedrich-Alexander- Universitat Erlangen-Nurnberg.

15. **A. Nicola**, S. Petra, **C. Popa**, C. Schnorr – “On a general extending and constraining procedure for linear iterative methods”, Preprint 9761 (2009), IWR Heidelberg. (<http://www.ub.uni-heidelberg.de/archiv/9761>)
16. **E. Pelican**, **L. Grecu** - "Matrix Methods in Pattern Recognition", Preprint CSAM 01-2009.
17. **A. Nicola** and **C. Popa** – “Kaczmarz Extended versus Augmented System Solution in Image Reconstruction”. Seria de preprinturi de informatica si matematici aplicate, CSAM Preprint, No.2, pag. 1-10, 2009.

VIII. Granturi si vizite de cercetare

1. **M. Crăciun**: membru in 6th Framework Programme of European Union Contract No: MTKD – CT – 2004 – 014058, titlu “Modern Composite Materials Applied in Aerospace, Civil and Mechanical Engineering: Theoretical Modelling and Experimental Verification”, Co-ordinator: T. Sadowski, Period: 1.04.2005 – 31. 03.2009, Acronym: MCMACM, <http://akropolis.pol.lublin.pl/users/ksi/mcmacm/SCIENTIST.HTM>
2. **M. Crăciun**: responsabil pentru UOC in 7th Framework Programme of European Union Call: FP-7REGPOT – 2009 – 1, titlu “Centre of excellence for modern composites applied in aerospace and surface transport”, Contract No: FP-7 24547; Acronym: CEMCAST, Co-ordinator: T. Sadowski, Period: 1.04.2010 – 31. 03.2013.
3. **D. Sburian**: director, tip: PNCDI-PNII-Idei, Proiecte de cercetare exploratorie, 804/2008 titlu “Limbaje formale, calculabilitate și complexitate: calcul prin pliere și aplicații (FOLD)”.
4. **C. Popa**: DAAD research grant, 01.07.2009 - 31.08.2009, at Lehrstuhl für Informatik 10 (Systemsimulation), "Friedrich-Alexander" University Erlangen-Nurnberg, Germany.
5. **C. Popa**: visiting professor, March 26 - 29, 2009, at Institute for Applied and Numerical Mathematics, University of Karlsruhe and March 29 - April 5, 2009, at Heidelberg Collaboratory for Image Processing (HCI), Image and Pattern Analysis Group, IWR of University of Heidelberg, Germany.
6. **E. Pelican**: Grant pt a participa la "Summer School and Advanced Workshop on Trends and Developments in Linear Algebra", The Abdus Salam International Center for Theoretical Physics, 22 iunie-10 iulie 2009 Miramare, Trieste – Italia.
7. **D. Ibadula**: Fellowship grant of Katholieke University of Leuven, Belgium, la invitatia Prof. Willem Veys, Februarie - Martie 2009, Leuven, Belgia.
8. **D. Ibadula**: LIB60BER, Grant of University of Zaragoza, Iunie 2009.
9. **D. Ibadula**: UNESCO, International Atomic Energy Agency (IAEA) and The Abdus Salam International Centre for Theoretical Physics (ICTP) Grant, Trieste, Italia, iunie – iulie 2009 (**grant castigat, dar nefolosit**).
10. **D. Ibadula**: EPSRC Grant EP/G055408/1 School of Mathematics, University of Southampton, Southampton, UK, Aprilie 2009 (**grant castigat, dar nefolosit**).
11. **D. Ibadula**: Bursa de mobilitate Erasmus la Université de Nice- Sophia Antipolis, Nice, Franta, Noiembrie 2009.
12. **D. Savin**: Sage Days 16-Computational Number Theory, June 22-27 , 2009, Barcelona (grant partial).

13. **D. Savin:** Advanced School and Workshop on p-adic Analysis and Applications, August – September 2009, The Abdus Salam International Centre for teoretical Physics, Trieste, Italy (grant total).
14. **D. Savin:** participare la Winter School on Explicit Methods in Number Theory, January 26-30, 2009, Intitute of Mathematics, University of Debrecen.
15. **D.M.Popovici:** participare la Laval Virtual 22-26 aprilie 2009 cu proiectul Navoramique in cadrul competitiei “Village de la creation”.

Conferinte invitate

- C. Popa:** 29 March, 2009, invited conference held at Institute for Applied and Numerical Mathematics, University of Karlsruhe, Germany;
- 31 March 2009, invited conference held at Heidelberg Collaboratory for Image Processing (HCI), Image and Pattern Analysis Group, IWR of University of Heidelberg, Germany;
 - 6 August 2009, invited conference held at Lehrstuhl fur Informatik 10 (Systemsimulation), "Friedrich-Alexander" University Erlangen-Nurnberg, Germany.

Premii

1. **E. Pelican:** Premiul "Tanarul Cercetator" pe 2009 al ROMAI (Soc de Matematici Aplicate si Industriale din Romania).
2. **D. Savin, C. Flaut:** Premiu CNCSIS pentru rezultatele cercetarii si publicare de articole ISI pentru articolul: Some properties of the symbol algebras, Carpathian Journal of Mathematics, 25(2), p. 239-245, 2009, 190 cod CNCSIS (cu C. Ciobanu).