

## CURRICULUM VITAE

1. Nume: Pop
2. Prenume: Mihail-Ioan
3. Data și locul nașterii: 24.01.1980, Brașov
4. Cetățenie: română
5. Studii: doctorat

Universitare/postuniversitare/doctorat

Instituția	Universitatea “Transilvania” din Brașov	Universitatea “Transilvania” din Brașov	Universitatea “Transilvania” din Brașov
Perioada: de la (anul) până la (anul)	2000 – 2004	2004 – 2006	2006 – 2012
Grade sau diplome obținute	Licențiat în Matematică-Fizică	Master în Probabilități și statistică matematică	Doctor în Matematică

6. Alte specializări și calificări: absolvirea cursurilor de pregătire psihopedagogică; abilități de lucru în Microsoft Word+Office, Gnumeric, AutoCAD, Gmsh mesh generator, Elmer FEM, Scilab, LabVIEW, programare în C.

7. Titlul științific: doctor

8. Experiența profesională și didactică:

Funcția	Preparator univ.	Asistent univ.	Asistent univ.
Perioada	2004 – 2007	2007 – 2011	2011 – prezent
Instituția	Universitatea “Transilvania” din Brașov	Universitatea “Transilvania” din Brașov	Universitatea “Transilvania” din Brașov
Locul	Catedra de Fizică	Catedra de Fizică	Departamentul de Inginerie Electrică și Fizică Aplicată

9. Locul de muncă actual: Universitatea “Transilvania” din Brașov, Facultatea de Inginerie Electrică și Știința Calculatoarelor, Departamentul de Inginerie Electrică și Fizică Aplicată

10. Vechime la locul de muncă actual: 10 ani

11. Limbi străine cunoscute: engleză, franceză

12. Lucrări elaborate și/sau publicate (selecție):

### **Monografii, îndrumare**

1. Mihail-Ioan POP, Adrian BEZERGHEANU, Fizică generală. Prelucrarea statistică a datelor experimentale și lucrări de laborator, Editura Universității “Transilvania” din Brașov, 2014, ISBN: 978-606-19-0383-2 (format: CD)

### **Articole în reviste cotate ISI**

1. Nicolae Cretu, Gelu Nita, Mihail Ioan Pop, Wave transmission approach based on modal analysis for embedded mechanical systems, Journal of Sound and Vibration, Vol. 332, Iss. 20, 2013, pp. 4940–4947.
2. M. - I. Pop, Distribution of the daily sunspot number variation for the last 14 solar cycles, Solar Physics, Vol. 276, Is. 1, 351-361, 2012.
3. Nicolae Crețu, Mihail-Ioan Pop, Acoustic behavior design with simulated annealing, Computational Materials Science, 44 (2009), 1312-1318.
4. N. CRETU, M. POP - Higher order statistics in signal processing and nanometric size analysis, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Vol. 10, No. 12, December 2008.

### **Articole în reviste cotate CNCSIS / BDI**

1. Mihail-Ioan Pop – STATISTICAL DISTRIBUTION OF SOME ASTEROID PARAMETERS, Bulletin of the Transilvania University of Brasov, Series III: Mathematics, Informatics, Physics, Vol 4(53), No. 1, 139-146, 2011
2. Mihail-Ioan Pop – Stability of solutions of a particular nonlinear oscillator, Bulletin of the Transilvania University of Brasov, Vol 3(52), Series III: Mathematics, Informatics, Physics, 223-228, 2010
3. Mihail-Ioan Pop – The Milgrom oscillator, Bulletin of the Transilvania University of Brasov, Vol 16(51), III, Series Mathematics, Informatics, Physics, 2009
4. M. Pop - LINEAR MODEL FOR A DUAL DISTRIBUTION THERMODYNAMIC SYSTEM, Bulletin of the Transilvania University of Brasov, Vol 15(50), III, Series Mathematics, Informatics, Physics, 2008
5. N. CRETU, G. NITA, M. POP, A. BOER, SOUND WAVE PROPAGATION IN NONLINEAR MEDIA, Bulletin of the Transilvania University of Brasov, Vol. 14 (49) - 2007
6. N. CRETU, M. POP, A. BOER, L. FLOROIAN - LAW OF VARIATION OF PARTICLE SIZE WITH TIME IN SOL-GEL POWDER FABRICATION PROCESS, Bulletin of the Transilvania University of Brasov, Series B, Vol. 13(48), 2006
7. M. Pop, S. Dumitru - Nano-stability in terms of Tsallis entropy, Bulletin of the Transilvania University of Brașov, Vol. 13 (48), 2006
8. M. Pop, S. Dumitru - An Investigation of External Noises in Quantum Computations, Bulletin of the Transilvania University of Brașov, Vol. 12 (47) – 2005
9. M. Pop, S. Dumitru - Some Considerations Regarding Quantum Computers, Bulletin of the “Transilvania” University of Brasov, vol. 11 (46), 2004

### Articole publicate în alte reviste

10. Mihail-Ioan POP, THE HEAT EQUATION WITH RANDOMLY GENERATED INITIAL CONDITIONS, Proceedings of the 23rd Scientific Session “Mathematics and its Applications”, Braşov, 8-9 May 2009
11. Pop Mihail, Taylor Series Development of the Redundancy of a Particular Bivariate Type of System, 22th Scientific Session on mathematics and its applications, Braşov, May 2008
12. Mihail Pop, On the possibility of approximation of functions with the aid of entropy, 21th Scientific Session on mathematics and its applications, Braşov, June 2007
13. Nicolae CRETU, Mihail POP, STUDY OF THE SOUND WAVES PROPAGATION IN A NONLINEAR FERROMAGNETIC SAMPLE, Romanian Journal of Acoustics and Vibration, 2007

### Conferințe, simpozioane

1. Mihail I. POP, OPTIMISATION OF HEAT DISSIPATION FOR AN ELECTRIC RESISTANCE, International Conference on Mathematics and Computer Science (MACOS), June 26-28 2014, Braşov, Romania.
2. M.-I. Pop, I. Firastrau, NUMERICAL STUDY OF SPIN-TORQUE OSCILLATORS WITH PERPENDICULAR-TO-PLANE POLARIZER BY USING A HEURISTIC METHOD, International Semiconductor Conference (CAS) 2013 Proceedings, 13-16 oct. 2013, Sinaia.
3. M.-I. Pop, I. Firastrau, Heuristic Search For Solutions Of The Landau-Lifshitz-Gilbert-Slonczewski Equation For Spin-Torque Oscillators With Perpendicular-To-Plane Polarizer, Soft Magnetic Materials 21 Conference (SMM21), Budapest, Hungary, 1-4 september 2013.
4. Nicolae Cretu, Ioan-Mihail Pop, Ioan-Calin Rosca, Eigenvalues and Eigenvectors of the Transfer Matrix, International Congress on Ultrasonics, Gdansk, 2011; AIP Conference Proceedings 1433 , pp. 535-538, 2012.
5. Firastrau, M. S. Adam, M. - I. Pop, NUMERICAL STUDY ON THE MAGNETIZATION DYNAMICS OF A SAF UNDER PERPENDICULAR SPIN-POLARIZED CURRENT, CAS 2011 Proceedings, 2011.
6. Zamfira, S.; Crețu, N.; Cadareanu, R.; Pop, M. – I., Hoffmann, C.: Optimization design of the acoustical structures, The 20<sup>th</sup> International DAAAM Symposium “Intelligent Manufacturing & Automation: Focus on Theory, Practice & Education”, 25-28 November 2009, Vienna, Austria, Published in Annals of DAAAM for 2009 & Proceedings of the 20<sup>th</sup> International DAAAM Symposium, Vol. 20, No. 1, ISSN 1726-9679, ISBN 978-3-901509-70-4
7. N.Cretu, M. Pop, I. Mercioniu, N.Popescu-Pogriou, An estimation of some mechanical properties for special ceramics for IT-SOFC electrolyte, The sixth International Edition of Romanian Conference on Advanced Materials ROCAM 2009, August 25-28, 2009, Braşov, Romania
8. Nicolae Cretu, Mihail-Ioan Pop, Sorin Zamfira, ACOUSTIC DESIGN IMPROVEMENT BY USING THE SIMULATED ANNEALING ALGORITHM, SEVENTH INTERNATIONAL CONFERENCE “CHALLENGES in HIGHER EDUCATION and RESEARCH in 21st CENTURY”, SCIENCE DAYS OF TU-SOFIA (2009), June 2 – 5, 2009, Sozopol, Bulgaria, Publicat în Proceedings of the 7<sup>th</sup> International Conference “Challenges in Higher Education and Research in the 21-st Century”.
9. Nicolae Crețu, Mihail Pop, Ioan-Călin Roșca, Acoustic design by simulated annealing algorithm, International Congress on Ultrasonics (ICU) 2009, Santiago de Chile, January 11-17, 2009

## Participare în proiecte de cercetare

1. Research grant PNII-ID-PCCE-2011-2-0015 / No. 3702/7.05.2012: Stochastic Analysis and Parameter Estimation in Systems with memory.
2. TE\_77/2010 "Modelari si simulari privind o noua clasa de oscilatori spintronici de inalta frecventa cu jonctiuni tunel magnetice", 2010-2013.
3. Subcontract nr. 7817/16.06.2009 "Masuratori mecanice si electrice (conductivitati) pe compozite ceramice pe baza de cerie sau zirconie" în cadrul contractului PN - II nr. CNMP 71-031/2007 "Nanocompozite ceramice performate pentru o noua generatie de celule de combustie cu electrolit solid, de temperatura medie (IT - SOFC) – NANOCOMSIT".
4. Grantul CEEX 2CEX06-11-103 – "MEDII NEOMOGENE ELASTICE, ABORDARI ULTRAACUSTICE SI SIMULARI COMPUTATIONALE" (MENELAUS), 2006 – 2008.
5. Grantul CEEX CEX 06-11-14 – "Microstructura sistemelor micro si naonometrice de alfa Al<sub>2</sub>O<sub>3</sub> - ZrO<sub>2</sub> dopate cu pamanturi rare pentru compozite performante (electrolit solid in celule de combustie de temperaturi intermediare - SOFC-IT)" (NANODOPAZ), 2005 – 2008

### 13. Organizare conferințe, simpozioane, școli de vară:

1. Romanian Conference on Advanced Materials (ROCAM) 2009, august 25-28, Brașov, Romania.
2. Third International Conference on Amorphous and Nanostructured Chalcogenides (ANC-3), Brasov, Romania, intl., July 2-6, 2007.
3. Second International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences (IC-ANMBES 2012) May 24<sup>th</sup>-27<sup>th</sup>, 2012, Brasov, Romania.
4. Third International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences "IC-ANMBES 2014", June 13<sup>th</sup>-15<sup>th</sup>, 2014 in Brasov, Romania.

Data: 15.12.2014

Semnătura

## LISTA DE LUCRĂRI ALE CANDIDATULUI

### Lucrările cele mai relevante pentru realizările profesionale proprii

1. N. CRETU, **M. POP** - Higher order statistics in signal processing and nanometric size analysis, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Vol. 10, No. 12, December 2008.
2. Nicolae Crețu, **Mihail-Ioan Pop**, Acoustic behavior design with simulated annealing, Computational Materials Science, 44 (2009), 1312-1318.
3. Nicolae Crețu, **Mihail Pop**, Ioan-Călin Roșca, Acoustic design by simulated annealing algorithm, International Congress on Ultrasonics (ICU) 2009, Santiago de Chile, January 11-17, 2009.
4. **Mihail-Ioan Pop**, STATISTICAL DISTRIBUTION OF SOME ASTEROID PARAMETERS, Bulletin of the Transilvania University of Brasov, Series III: Mathematics, Informatics, Physics, Vol 4(53), No. 1, 139-146, 2011.
5. **Mihail-Ioan Pop**, Teză de doctorat: Unele tipuri de entropie și aplicațiile lor, conducător științific : Prof. Univ. Dr. Gabriel V. Orman, 2012.
6. **M. - I. Pop**, Distribution of the daily sunspot number variation for the last 14 solar cycles, Solar Physics, Vol. 276, Is. 1, 351-361, 2012.
7. **M.-I. Pop**, I. Firastrau, NUMERICAL STUDY OF SPIN-TORQUE OSCILLATORS WITH PERPENDICULAR-TO-PLANE POLARIZER BY USING A HEURISTIC METHOD, International Semiconductor Conference (CAS) 2013 Proceedings, 13-16 oct. 2013, Sinaia.
8. Nicolae Cretu, Gelu Nita, **Mihail Ioan Pop**, Wave transmission approach based on modal analysis for embedded mechanical systems, Journal of Sound and Vibration, Vol. 332, Iss. 20, 2013, pp. 4940–4947.
9. **Mihail I. POP**, OPTIMISATION OF HEAT DISSIPATION FOR AN ELECTRIC RESISTANCE, International Conference on Mathematics and Computer Science (MACOS), June 26-28 2014, Brașov, Romania.
10. **Mihail-Ioan POP**, Adrian BEZERGHEANU, Fizică generală. Prelucrarea statistică a datelor experimentale și lucrări de laborator, Editura Universității “Transilvania” din Brașov, 2014, ISBN: 978-606-19-0383-2 (format: CD).

### Teza de doctorat

1. **Mihail-Ioan Pop**, Unele tipuri de entropie și aplicațiile lor, conducător științific : Prof. Univ. Dr. Gabriel V. Orman, 2012.

### Cărți

1. **Mihail-Ioan POP**, Adrian BEZERGHEANU, Fizică generală. Prelucrarea statistică a datelor experimentale și lucrări de laborator, Editura Universității “Transilvania” din Brașov, 2014, ISBN: 978-606-19-0383-2 (format: CD)

### Articole în reviste cotate ISI

1. Nicolae Cretu, Gelu Nita, **Mihail Ioan Pop**, Wave transmission approach based on modal analysis for embedded mechanical systems, Journal of Sound and Vibration, Vol. 332, Iss. 20, 2013, pp. 4940–4947. Factorul de impact al revistei (2012): 1,613; Scor relativ de influenta (ian. 2012) = 1,845.
2. **M. - I. Pop**, Distribution of the daily sunspot number variation for the last 14 solar cycles, Solar Physics, Vol. 276, Is. 1, 351-361, 2012. Factorul de impact al revistei (2011): 2,776; Scor relativ de influenta (ian. 2012) = 1,543.
3. Nicolae Crețu, **Mihail-Ioan Pop**, Acoustic behavior design with simulated annealing, Computational Materials Science, 44 (2009), 1312-1318. Factorul de impact al revistei (2008): 1,549; Scor relativ de influenta (ian. 2012) = 1,277.
4. N. CRETU, **M. POP** - Higher order statistics in signal processing and nanometric size analysis, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Vol. 10, No. 12, December 2008. Factorul de impact al revistei (2007) = 0,827; Scor relativ de influenta (ian. 2012) = 0,330.

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1. **Mihail-Ioan Pop** – STATISTICAL DISTRIBUTION OF SOME ASTEROID PARAMETERS, Bulletin of the Transilvania University of Brasov, Series III: Mathematics, Informatics, Physics, Vol 4(53), No. 1, 139-146, 2011
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7. Nicolae Cretu, Gelu Nita, Attila Boer, **Mihail Pop**, HIGHER ORDER STATISTICS IN MAGNETOACOUSTIC NDT, V-th Workshop NDT in Progress, International Meeting of NDT Experts, publicat în V-th NDT in Progress, ISBN 978-80-214-3968-9 Prague, Czech Republic, 12 - 14.10.2009
8. N.Cretu, **M. Pop**, I. Mercioniu, N.Popescu-Pogrion, An estimation of some mechanical properties for special ceramics for IT-SOFC electrolyte, The sixth International Edition of Romanian Conference on Advanced Materials ROCAM 2009, August 25-28, 2009, Braşov, Romania
9. Nicolae Cretu, **Mihail-Ioan Pop**, Sorin Zamfira, ACOUSTIC DESIGN IMPROVEMENT BY USING THE SIMULATED ANNEALING ALGORITHM, SEVENTH INTERNATIONAL CONFERENCE “CHALLENGES in HIGHER EDUCATION and RESEARCH in 21st CENTURY”, SCIENCE DAYS OF TU-SOFIA (2009), June 2 – 5, 2009, Sozopol, Bulgaria, Publicat în Proceedings of the 7<sup>th</sup> International Conference “Challenges in Higher Education and Research in the 21-st Century”.
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3. Subcontract nr. 7817/16.06.2009 "Masuratori mecanice si electrice (conductivitati) pe compozite ceramice pe baza de cerie sau zirconie" în cadrul contractului PN - II nr. CNMP 71-031/2007 "Nanocompozite ceramice performante pentru o noua generatie de celule de combustie cu electrolit solid, de temperatura medie (IT - SOFC) – NANOCOMSIT".
4. Grantul CEEX 2CEX06-11-103 – "MEDII NEOMOGENE ELASTICE, ABORDARI ULTRAACUSTICE SI SIMULARI COMPUTATIONALE" (MENELAUS), 2006 – 2008.
5. Grantul CEEX CEX 06-11-14 – "Microstructura sistemelor micro si naonometrice de alfa  $\text{Al}_2\text{O}_3$  -  $\text{ZrO}_2$  dopate cu pamanturi rare pentru compozite performante (electrolit solid in celule de combustie de temperaturi intermediare - SOFC-IT)" (NANODOPAZ), 2005 – 2008.

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Semnătura

