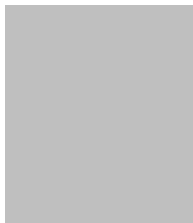


INFORMAȚII PERSONALE

Oprina Andrei-George



EXPERIENȚA PROFESIONALĂ

2017 - prezent

Director General

Institutul pentru Tehnologii Avansate, Bucuresti, Str. Dinu Vintila nr.10

- coordonarea activităților institutului

[R&D](#)

2012 - 2017

Seful Departamentului INFOSEC

Serviciul Roman de Informatii, Bucuresti, Bdul. Libertatii nr.14

- stabilirea cerintelor de securitate pentru produsele INFOSEC utilizate

[Securitate IT&C](#)

2006 - 2012

Matematician

Institutul pentru Tehnologii Avansate, Bucuresti, Str. Dinu Vintila nr.10.

- cercetare-dezvoltare in domeniul criptografiei

[R & D](#)

2005 - 2013

Matematician

Institutul de Matematica Simion Stoilow al Academiei Romane, Bucuresti, Str. Calea Grivitei nr.21 (contract cu perioadă determinată)

- membru in echipele de cercetare a mai multor proiecte și granturi

[Institutie de cercetare](#)

2015 - 2017

Cadru didactic asociat

Universitatea Politehnica din Bucuresti, Bucuresti, Bdul. Splaiul Independentei nr.313 (contract cu perioadă determinată)

- predare cursuri si seminarii

[Institutie de invatamant](#)

2017 - prezent

Lector

Universitatea Politehnica din Bucuresti, Bucuresti, Bdul. Splaiul Independentei nr.313

- predare cursuri si seminarii

[Institutie de invatamant](#)

EDUCAȚIE ȘI FORMARE

2006 - 2013 **Doctor in matematica**

Institutul de Matematica Simion Stoilow al Academiei Romane, Bucuresti, Str. Calea Grivitei nr.21

- teoria potentialului, procese stocastice, ecuatii cu derivate partiale, probabilitati etc.

2005 - 2007 **Master in analiza matematica**

Universitatea din Bucuresti, Facultatea de Matematica si Informatica, Bucuresti, Str. Academiei nr.14

- teoria potentialului, teorie Dirichlet, procese Markov, probabilitati, statistica etc.

COMPETENTE PERSONALE

Limba(i) maternă(e)

limba maternă - romana

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleza	B2	B2	B2	B2	B2
Scrieți denumirea certificatului. Scrieți nivelul, dacă îl cunoașteți.					
Franceza	A1	A1	A1	A1	A1
Scrieți denumirea certificatului. Scrieți nivelul, dacă îl cunoașteți.					

Niveluri: A1/2: Utilizator elementar - B1/2: Utilizator independent - C1/2: Utilizator experimentat
Cadru european comun de referință pentru limbi străine

Competențe de comunicare

- bune competențe de comunicare dobândite prin experiența proprie de predare, respectiv de sef al departamentului INFOSEC

Competențe organizaționale/manageriale

- leadership (datorita pozitiei curente - director general)
- implicat in timpul doctoratului la organizarea urmatoarelor conferinte (nationale/ internationale):
 - ✓ The Eighth Congress of Romanian Mathematicians, Iasi, June 2015, http://www.imar.ro/congmatro8/local_organizing_board.php
 - ✓ Joint International Meeting of the American Mathematical Society and the Romanian Mathematical Society, Alba Iulia, June 2013, <http://imar.ro/ams-ro2013/committees.php>
 - ✓ PDEs and Stochastic Processes, Pitești, October 2012
 - ✓ Exploratory Workshop on New Trends in Complex Analysis and Related Domains, Ploiești, iunie 2012, <http://imar.ro/WE-RoFinSem12/Workshop2012.php>
 - ✓ The 13th Romanian-Finnish Seminar, Ploiești, June 2012, <http://imar.ro/RoFinSem2012/conf.php>
 - ✓ Probability and Related Aspects, Alba Iulia, May 2012
 - ✓ New Trends in Modern Analysis Probabilistic and Analytic Methods in PDEs and Spectral Theory, Hammamet, Tunisia, November 2011
 - ✓ The Seventh Congress of Romanian Mathematicians, Brașov, June-July 2011
 - ✓ Workshop on Asymptotic Analysis and Stochastic Methods for Heterogeneous Media, Alba Iulia, June 2010
 - ✓ Exploratory Workshop on Recent trends in complex analysis and related topics, Alba Iulia, August 2008
 - ✓ The 11th Romanian-Finnish Seminar, Alba Iulia, August 2008
 - ✓ International conference on Potential Theory and Stochastics, Alba Iulia, September 2007
 - ✓ The 6th Congress of Romanian Mathematicians, Bucharest, June-July 2007)

Competențe informatice

- Linux și Windows
- programare C, Matlab, Maple, Mathematica, LaTeX, Html
- o excelentă cunoaștere a instrumentelor Microsoft Office™ etc.

Permis de conducere

Categoria B

INFORMATII SUPLIMENTARE

Publicații

- ✓ A.-G.Oprina, E.Simion: Elemente de teoria probabilităților, Matrix Rom, 2017, ISBN-978-606-25-0313-0.
- ✓ A.-G.Oprina: Perturbation with kernels of Markovian resolvents. Proceedings of the Romanian Academy, Series A, Mathematics, Physics, Technical Sciences, Information Science (2016), acceptat (ISI Impact Factor: 1.735, roșu – IF2015)
- ✓ L.Beznea, A.-G.Oprina: Bounded and L^p -weak solutions for nonlinear equations of measure-valued branching processes. Nonlinear Analysis: Theory, Methods & Applications 107 (2014), 34-46 (ISI Impact Factor: 1.125, roșu – IF2015, galben – AIS2015)
- ✓ L.Beznea, O.Lupașcu, A.-G.Oprina: A unifying construction for measure-valued continuous and discrete branching processes, in: Complex Analysis and Potential Theory, CRM Proceedings and Lecture Notes, vol. 55, Amer. Math. Soc., Providence, RI, 2012, pp. 47-59
- ✓ L.Beznea, A.-G.Oprina: Nonlinear PDEs and measure-valued branching type processes, Journal of Mathematical Analysis and Applications 384 (2011), 16-32 (ISI Impact Factor: 1.014, roșu – IF2015, galben – AIS2015)
- ✓ Mihăiță, R.F.Olimid, A.-G.Oprina, D.Naccache, E.Simion: Information security and Cryptology. Applications, Matrix Rom, 2011, ISBN 978-973-755-675-2, 107 pages
- ✓ N.Bizon, A.-G.Oprina et. al.: Advances in Energy Research: Distributed Generations Systems Integrating Renewable Energy Resources (Chapter 7), Nova Publishers, ISBN: 978-1-61209-991-0, 2011
- ✓ L.Beznea, A.-G.Oprina: A class of subordination operators on a direct sum, Mathematical Reports 12 (2010), 119-126 (ISI Impact Factor: 0.152)
- ✓ M.Andrașiu, E.Simion, A.-G.Oprina: Monte-Carlo detection of the outliers data and cryptographic applications, Acta Universitatis Apulensis 22 (2010), 231-242
- ✓ N.Bizon, A.-G.Oprina et. al.: Complex Behavior of the Distributed Generation System: Intelligent Management of the Renewable Energy Resources for assuring the DG System Power Quality and a Sustainable Development, Publishing house of the University of Pitești, Pitești, 2010, ISBN 978-606-560-128-4 (hardcover), Capitolul 6, Techniques for Secure Communications, pp.181-194
- ✓ M.Andrașiu, A.Oprina, E.Simion, G.Simion: Monte-Carlo detection of the outliers data and cryptographic applications, Acta Universitatis Apulensis, 22 (2010), 231-242
- ✓ A.-G.Oprina, A.Popescu, E.Simion, G.Simion: Walsh-Hadamard randomness test and new methods of test results integration, Bulletin of the Transilvania University of Brașov 2 (51), Series III: Mathematics, Informatics, Physics (2009), 93-106
- ✓ A.-G. Oprina, E.Simion, G.Simion: Computer vision principles. A contrario method, in: Proc. of 9-th International Symposium on Signals, Circuits and Systems, Iași, Romania, 9-10 iulie, 2009, DOI: 10.1109/ISSCS.2009.5206081, ISBN 978-1-4244-3785-6, pp. 1-4, (ISI Web of Science CPCI-S, IEEEExplore)
- ✓ A.-G. Oprina, E.Simion, G.Simion: Coding theory and cryptography, in: Proc. of the Second International Conference on Security for Information Technology and Communication, Bucharest, nov. 2009, ISBN 978-606-505-283-3, pp. 25-29
- ✓ M.Andrașiu, A.-G. Oprina, E.Simion: A proposal for research and development of cryptographic standards, in: Proc. of 3-rd International Conference on Electronics, Computers and Artificial Intelligence ECAI 2009, Pitești, 3-5 July 2009, vol. 3, ISSN-1843-2115, pp. 7-10
- ✓ A.-G.Oprina, E.Simion, Gh.Simion: Statistical cryptanalytic techniques and new methods of test results integrations, in: Proc. of International Conference on Security for Information Technology and Communication, București, noiembrie 2008, ISBN 978-606-505-137-9, pp. 15-26

Teza de doctorat

- ✓ Potential analysis in infinite dimensional situations, "Simion Stoilow" Institute of Mathematics of the Romanian Academy, December 2013 (Ph. D. supervisor: Prof. Dr. Lucian Beznea).

Prezentări

- ✓ Joint International Meeting of the German Mathematical Society and the Romanian Mathematical Society, septembrie, 2017, <http://imar.ro/~imar/2017/DFG/description.php.html>
- ✓ International Conference on Complex Analysis and Related Topics, The 14th Romanian-Finnish Seminar, București, iunie, 2016, <http://imar.ro/organization/activities/standalone/RoFinSem2016/List-of-talks-Romanian-Finnish-Seminar2016.pdf>
- ✓ The Eighth Congress of Romanian Mathematicians, Iași, iunie 2015, <http://www.math.uaic.ro/cmr2015/index.php?talks&rcapt#capt>
- ✓ Conferința Națională a Societății de Științe Matematice din România, Iași, octombrie 2015, <http://www.math.uaic.ro/ssmriasi/?conferinta>
- ✓ International Conference on Applied and Pure Mathematics (ICAPM 2013), Iași, noiembrie 2013, <http://math.etc.tuiasi.ro/apm2013/docs/programme.pdf>
- ✓ Joint International Meeting of the American Mathematical Society and the Romanian Mathematical Society, Alba Iulia, iunie 2013, <http://imar.ro/ams-ro2013/talks.html>
- ✓ The 13th Romanian-Finnish Seminar, Ploiești, iunie 2012, <http://imar.ro/RoFinSem2012/ListaTalk-RoFinSem12.pdf>

- ✓ Exploratory Workshop on New Trends in Complex Analysis and Related Domains, Ploiești, iunie 2012, <http://imar.ro/WE-RoFinSem12/Workshop2012.php>
- ✓ Probability and Related Aspects, Alba Iulia, mai 2012, <http://www.imar.ro/ProbAlbaIulia2012/ListaTalk-AlbaIulia12.pdf>
- ✓ New Trends in Modern Analysis: Probabilistic and Analytic Methods in PDEs and Spectral Theory, Hammamet (Tunisia), noiembrie 2011, <http://www.imar.ro/organization/activities/standalone/conf-Tunisia/talks.php>
- ✓ The Seventh Congress of Romanian Mathematicians, Brașov, iunie 2011, <http://imar.ro/organization/activities/standalone/congrmatro2011/talks.php>
- ✓ 10ème Colloque Franco-Roumain de Mathématiques Appliquées, Poitiers (Franta), august 2010, <http://www-math.univ-poitiers.fr/CFR2010/>
- ✓ Second Workshop Series on Applied Mathematics, Pitești, mai 2010
- ✓ First Workshop Series on Applied Mathematics, Pitești, mai 2009

Proiecte

Membru in echipele de cercetare a urmatoarelor proiecte/granturi:

- ✓ CNCSIS Complex Research Project, Sisteme diferentiale in analiza neliniara si aplicatii, project code 55 (2010-2013)
- ✓ AMCSIT Project, Biometric system for the acquisition and verification of the dynamic signatures, project code 1166/2007 (2007-2009)
- ✓ CNCSIS Grant, Probleme actuale in teoria potentialului cu aplicatii, project code 2236/2006, CNCSIS code 815 (2006-2008)
- ✓ CEEX Program, Analiza complexa si domenii conexe, project code Cex06-11-10/2006 (2006-2008)
- ✓ ANCS Project, New mathematical approaches in biology (BIOMAT), project code 2-CEx06-11-97/19.09.06 (2006-2008)

Alte conferințe la care am participat

- ✓ Colloque Franco-Roumain en Théorie des Probabilités, București, octombrie-noiembrie, 2015
- ✓ PDEs and Stochastic Processes, Pitești, octombrie, 2012
- ✓ Eurocrypt 2011, Tallinn (Estonia), mai, 2011
- ✓ 10ème Colloque Franco-Roumain de Mathématiques Appliquées, Poitiers (Franta), august 2010
- ✓ Workshop on Asymptotic Analysis and Stochastic Methods for Heterogeneous Media, Alba Iulia, iunie 2010
- ✓ Eurocrypt 2010, Monte Carlo (Franta), mai 2010
- ✓ The Second Doctoral Student workshop in Mathematics, Pitești, mai 2010
- ✓ Le premier seminaire roumain-tunisien en mathematiques - The Fourth Workshop Series on Mathematics, București, noiembrie 2009
- ✓ Workshop on Stochastic Analysis, București, iulie 2009
- ✓ The 60-th Anniversary of The Institute of Mathematics of the Romanian Academy, București, iunie 2009
- ✓ Romanian-German Symposium on Mathematics and Its Applications, Sibiu, mai 2009
- ✓ First Doctoral Student workshop in Mathematics, Pitești, mai 2009
- ✓ Eurocrypt 2009, Cologne, Germania, aprilie 2009
- ✓ Serie de expuneri in cadrul seminarului de Teoria Potențialului organizat de Institutul de Matematică Simion Stoilow al Academiei Romane și Facultatea de Matematică și Informatică, Universitatea din București, iunie 2009, decembrie 2009 – ianuarie 2010, septembrie – octombrie 2010
- ✓ The 1st International Conference on Security for Information Technology and Communication (SECITC'08), București, noiembrie 2008
- ✓ Stochastic Models in Population Genetics: Coalescent, Ancestral Process, București, octombrie 2008
- ✓ Exploratory Workshop on Recent trends in complex analysis and related topics, Alba-Iulia, august 2008
- ✓ International Conference on Complex Analysis and Related Topics - The 11th Romanian - Finnish Seminar, Alba-Iulia, august 2008
- ✓ Scoala de vara de teoria codurilor, Vatra Dornei, iulie 2008
- ✓ Workshop on Stochastic Analysis and Potential Theory, București, iunie 2008
- ✓ International Workshop on Stochastic Phenomena, Transylvanian Summer School, Cluj-Napoca, mai 2008
- ✓ Second Workshop Series On Applied Mathematics, Pitești, noiembrie 2007
- ✓ International conference on Potential Theory and Stochastics, Albac, septembrie 2007
- ✓ Al 6-lea congres al Matematicienilor Romani, Bucuresti, iunie 2007
- ✓ Winter school on Singular Phenomena and Scaling in Mathematical Models, Bonn, Germania, februarie 2006

Seminarii (in cadrul carora am sustinut diverse comunicari) Lista de citari

- ✓ Participant constant din 2006 la Seminarul de *Teoria Potentialului*, organizat saptamanal de Institutul de Matematica Simion Stoilow al Academiei Romane si Facultatea de Matematica si Informatica, Universitatea din Bucuresti. In acest cadru am prezentat mai multe serii de expuneri.
- ✓ L.Beznea and S.Vlădoiu: Markov processes on the Lipschitz boundary for the Neumann and Robin problems 455 (2017), 292-311, Journal of Mathematical Analysis and Applications, citează lucrările [1] și [2] (2 citări); ISI Impact Factor: 1,014
- ✓ V.Barbu and L.Beznea: Measure-valued branching processes associated with Neumann nonlinear semiows 441 (2016), 167-182, Journal of Mathematical Analysis and Applications, citează lucrările [2], [3] și [4] (3 citări); ISI Impact Factor: 1,014
- ✓ L.Beznea, M. Deaconu, and O.Lupașcu: Stochastic equation of fragmentation and branching processes related to avalanches, Journal of Statistical Physics 162 (2016), 824-841, citează lucrarea [3] și [4] (2 citări); ISI Impact Factor: 1.537
- ✓ L.Beznea and O.Lupașcu: Measure-valued discrete branching Markov processes, Transactions of the American Mathematical Society, 368 (2016), 5153-5176, citează lucrările [2], [3] și [4] (3 citări); ISI Impact Factor: 1,310

- ✓ E.Simion: The Relevance of Statistical Tests in Cryptography, IEEE Privacy&Security, 2015 (to appear), citează lucrarea [10]; ISI Impact Factor: 0.902
- ✓ L.Beznea, M. Deaconu, and O.Lupașcu: Branching processes for the fragmentation equation, Stochastic Processes and their Applications 125 (2015), 1861-1885, citează lucrările [2], [3] și [4] (3 citări); ISI Impact Factor: 1,193
- ✓ L.Beznea and I.Câmpean: On Bochner-Kolmogorov Theorem, in: Séminaire de Probabilités de Strasbourg (Lecture Notes in Mathematics), Springer 2014, pp. 61-70, citează lucrarea [4]; ISI Impact Factor: 0,614
- ✓ M.Haiducu, C.Udrea: Perturbation with functions of the Monge-Ampere operator, Proceedings of the Romanian Academy series A – Mathematics, Physics, Technical Sciences, Information Science 15 (2014), 115-122, citează lucrarea [7]; ISI Impact Factor: 1.735
- ✓ L.Beznea, G.Trutnau: On the quasi-regularity of non-sectorial Dirichlet forms by processes having the same polar sets, Journal of Mathematical Analysis and Applications 384 (2011), 33-48, citează lucrarea [4]; ISI Impact Factor: 1.014
- ✓ L.Beznea: Potential theoretical methods in the construction of measure-valued Markov branching processes. Journal of the European Mathematical Society 13 (2011), 685-707, citează lucrarea [4]; ISI Impact Factor: 2.830

Activitate didactica

- ✓ 2015-2016 semestrul 1: seminarii *Algebra si Geometrie* (Automatica si Calculatoare) si *Analiza Matematica I* (Electronica)
- ✓ 2015-2016 semestrul 2: seminarii *Probabilitati, Statistica si Analiza Complexa* (Automatica si Calculatoare)
- ✓ 2015-2018 semestrul 1: curs si laborator Proiectarea Traficului Informational in Retele de Calculatoare (Stiinte Aplicate – Program masteral: Teoria codarii si stocarii informatiei)
- ✓ 2017-2018 semestrul 1: curs *Algebra si Geometrie* (Electronica)
- ✓ 2017-2018 semestrul 2: seminarii *Probabilitati, Statistica si Analiza Complexa* (Automatica si Calculatoare)

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

1. TEZA DE DOCTORAT (T)

1. **Potential analysis in infinite dimensional situations**, “Simion Stoilow” Institute of Mathematics of the Romanian Academy, December 2013 (Ph. D. supervisor: Prof. Dr. Lucian Beznea).

2. CĂRȚI

1. A. Mihăiță, R.F. Olimid, **A.-G. Oprina**, D. Naccache and E. Simion, *Cryptography and Information security. Applications*, MATRIX ROM, 2011, ISBN 978-973-755-675-2, 107 pages, , COD CNCSIS 39.
2. **A.-G. Oprina** and E. Simion, *Introduction to Probability Theory*, MATRIX ROM, 2017, ISBN 978-606-25-0313-0, 128 pages, COD CNCSIS 39.

3. ARTICOLE PUBLICATE ÎN REVISTE INDEXATE (Ris)

1. **A.-G. Oprina**, A. Popescu, E. Simion and Gh. Simion, *Walsh-Hadamard randomness test and new methods of test results integration*, Bulletin of Transilvania University of Brașov, vol. 2(51) Series III-2009, pp. 93-106, ([Zentralblatt MATH](#), [Mathematical Reviews](#), [Scopus](#), [EBSCO](#), [Crossref](#)).
2. M. Andrașiu, **A.-G. Oprina**, E. Simion and Gh. Simion, *Monte-Carlo detection of the outliers data and cryptographic applications*, Acta Universitatis Apulensis, 22 (2010), ISSN: 1582-5329, pp. 231-242, ([Mathematical Reviews](#) and [Zentralblatt Math](#)).

4. ARTICOLE PUBLICATE ÎN VOLUMELE UNOR CONFERINȚE NAȚIONALE / INTERNAȚIONALE CU ISBN SAU ISSN (Vi)

1. **A.-G. Oprina**, E. Simion and Gh. Simion, *Statistical cryptanalytic techniques and new methods of test results integrations*, Proc. of International Conference on Security for Information Technology and Communication, Bucharest, nov. 2008, ISBN 978-606-505-137-9, pp. 15-26.
2. M. Andrașiu, **A.-G. Oprina** and E. Simion, *A proposal for research and development of cryptographic standards*, Proc. of 3-rd International Conference on Electronics, Computers and Artificial Intelligence ECAI 2009, Pitești, 3-5 july 2009, vol. 3, ISSN-1843-2115, pp. 7-10.
3. **A.-G. Oprina**, E. Simion and Gh. Simion, *Coding theory and cryptography*, Proc. of the Second International Conference on Security for Information Technology and Communication, Bucharest, nov. 2009, ISBN 978-606-505-283-3, pp. 25-29.

5. PREZENTĂRI/PRELEGERI

1. **A.-G. Oprina**, *The Asymptotic behavior of (h, φ) -entropies and applications at key agreement protocols*, The Annual meeting of the Faculty of Mathematics, University of Bucharest, 1998.
2. **A.-G. Oprina**, *Joint International Meeting of the German Mathematical Society and the Romanian Mathematical Society*, septembrie, 2017.
3. **A.-G. Oprina**, *International Conference on Complex Analysis and Related Topics, The 14th Romanian-Finnish Seminar*, Bucuresti, iunie, 2016.
4. **A.-G. Oprina**, *The Eighth Congress of Romanian Mathematicians*, Iasi, iunie 2015.
5. **A.-G. Oprina**, *Conferinta Nationala a Societatii de Stiinte Matematice din Romania*, Iasi, octombrie 2015.
6. **A.-G. Oprina**, *International Conference on Applied and Pure Mathematics (ICAPM 2013)*, Iasi, noiembrie 2013.
7. **A.-G. Oprina**, *Joint International Meeting of the American Mathematical Society and the Romanian Mathematical Society*, Alba Iulia, iunie 2013.
8. **A.-G. Oprina**, *The 13th Romanian-Finnish Seminar*, Ploiești, iunie 2012.
9. **A.-G. Oprina**, *Exploratory Workshop on New Trends in Complex Analysis and Related Domains*, Ploiești, iunie 2012.
10. **A.-G. Oprina**, *Probability and Related Aspects*, Alba Iulia, mai 2012.
11. **A.-G. Oprina**, *New Trends in Modern Analysis: Probabilistic and Analytic Methods in PDEs and Spectral Theory*, Hammamet (Tunisia), noiembrie 2011.
12. **A.-G. Oprina**, *The Seventh Congress of Romanian Mathematicians*, Brașov, iunie 2011.
13. **A.-G. Oprina**, *10ème Colloque Franco-Roumain de Mathématiques Appliquées*, Poitiers (Franta), august 2010.
14. **A.-G. Oprina**, *Second Workshop Series on Applied Mathematics*, Pitești, mai 2010.
15. **A.-G. Oprina**, *First Workshop Series on Applied Mathematics*, Pitești, mai 2009.

6. PROIECTE DE CERCETARE

1. CNCSIS Complex Research Project, *Sisteme diferentiale in analiza neliniara si aplicatii*, project code 55 (2010-2013).
3. AMCSIT Project, *Biometric system for the acquisition and verification of the dynamic signatures*, project code 1166/2007 (2007-2009).
4. CNCSIS Grant, *Probleme actuale in teoria potentialului cu aplicatii*, project code 2236/2006, CNCSIS code 815 (2006-2008).
5. CEEX Program, *Analiza complexa si domenii conexe*, project code Cex06-11-10/2006 (2006-2008).
6. ANCS Project, *New mathematical approaches in biology (BIOMAT)*, project code 2-CEX06-11-97/19.09.06 (2006-2008).