

**TECHNICAL UNIVERSITY OF  
CLUJ-NAPOCA**

**FACULTY OF AUTOMATION  
AND COMPUTER SCIENCE**

**PERSONAL INFORMATION**

First name(s) / Surname(s) **RASA, IOAN**  
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**CURRENT EMPLOYMENT /  
OCCUPATIONAL FIELD**

• Date 2019  
• Employer Department of Mathematics; Faculty of Automation and Computer Science  
• Occupation or position held Professor  
• Main activities and responsibilities Teaching and Research activities  
• PhD Supervisor Yes  
• Field Mathematics

**EDUCATION AND TRAINING**

• Year 1976  
• Name and type of organization providing education and training Babes-Bolyai University, Faculty of Mathematics  
Babes-Bolyai University, Faculty of Mathematics

• Title of qualification awarded Professor  
• Specialization Mathematics

• Year 1982  
• Name and type of organization providing education and training Babes-Bolyai University, Faculty of Mathematics  
Babes-Bolyai University, Faculty of Mathematics

• Title of qualification awarded PhD  
• Specialization Mathematics

**TEACHING ACTIVITIES**

PROFESSIONAL EXPERIENCE	COURSES HOLDER	SPECIALIZATIONS	YEAR
	Linear Algebra Algebra liniara	Computer Science (English) Computer Science (Romanian)	I
	Special Mathematics I Probabilitati si statistica	Computer Science (English) Computer Science (Master+PhD)	I VI

## RESEARCH ACTIVITIES

### RESEARCH INTEREST

- Functional analysis and approximation theory, Inequalities
- Probability theory, Statistics and Stochastic processes

**110 scientific published papers (a detailed list is attached to this CV)**

### Recent publications

1. **Janusz Brzdęk, Dorian Popa, Ioan Raşa, Bing Xu**, Ulam Stability of Operators, Mathematical Analysis and its Applications, Series Editor Themistocles M. Rassias, Academic Press, 2018, ISBN: 978-0-12-809829-5, 225 pp.
2. **Altomare, F., Cappelletti Montano, M., Leonessa, V., Rasa, I.**, Markov Operators, Positive Semigroups and Approximation Processes, De Gruyter Studies in Mathematics, Vol.61, 2014, ISBN:978-3-11-037274-8.
3. **Ali Aral, Daniela Inoan and Ioan Rasa**, Approximation properties of Szasz-Mirakyan operators preserving exponential functions, Positivity, <https://doi.org/10.1007/s11117-018-0604-3>
4. **Aral, A., Inoan, D., Raşa, I.**, On differences of linear positive operators. Anal.Math.Phys. (2018). <https://doi.org/10.1007/s13324-018-0227-7>
5. **Acar, T., Aral, A., Rasa, I.**, The new forms of Voronovskaya's theorem in weighted spaces, Positivity 20 (2016), 25–40. DOI 10.1007/s11117-015-0338-4
6. **Rasa, I.**, Convexity properties of some entropies, Results Math., (2018) 73:105
7. **Altomare, F., Cappelletti-Montano, M., Leonessa, V., Rasa, I.**, On differential operators associated with Markov operators, J. Funct. Anal. 266 (2014) No.6, 3612–3631.
8. **Altomare, F., Cappelletti-Montano, M., Leonessa, V., Rasa, I.**, On Markov operators preserving polynomials, J. Math. Anal. Appl. 415 (2014), 477–495.
9. **Rasa, I.**, Entropies and Heun functions associated with positive linear operators, Appl. Math. Comput. 268 (2015), 422–431.
10. **Rasa, I.**, Complete monotonicity of some entropies, Periodica Math. Hungar, DOI: 10.1007/s10998-016-0177-5.
11. **Ciurte, A., Nedevschi, S., Rasa, I.**, Systems of nonlinear algebraic equations with unique solution, Numer. Algor. 68 (2015), 367–376.
12. **Heilmann, M., Rasa, I.**, Eigenstructure and Iterates for Uniquely Ergodic Kantorovich Modifications of Operators, Positivity, DOI 10.1007/s11117-016-0441-1.
13. **Gonska, H., Rasa, I.**, On the composition and decomposition of positive linear operators (V), Results Math, DOI 10.1007/s00025-016-0618-8.
14. **Popa, D., Rasa, I.**, Hyers-Ulam stability of the linear differential operator with nonconstant coefficients, Appl. Math. Comput. 219 (2012), 1562-1568.
15. **Popa, D., Rasa, I.**, On the Hyers-Ulam stability of the linear differential equation, J. Math. Anal. Appl. 381 (2011), 530-537.

## GRANTS, RESEARCH CONTRACTS

### INTERNATIONAL GRANTS

1. Member of the research team working on the Drive C2x FP7 project, 2010-2013, Contract director Prof.dr.eng. Sergiu Nedevschi. Financing level: 89.000 Euro.

### NATIONAL GRANTS

1. Member of the research team working on the PN 2 PARTNERSHIPS contract, no.11-020 / sept.2007 „CryptoRand - A High Performance System for Generation and Testing of Random Number Sequences for Cryptographic

Applications” (<http://cryptorand.utcluj.ro/>), 2007-2010. Contract director: Prof. dr. eng. Alin Dumitru Suci, Technical University of Cluj-Napoca.

2. Member of the research team working on the project PART 1280, “SEArCH – Adaptative elearning systems.” 2007-2010. Contract director: Prof.dr.eng. Rodica Potolea.

## GRANTS, INSTITUTIONAL PROJECTS

National projects

National projects

Rasa, I., (expert) project POSDRU/89/1.5/S/62557 EXCEL, 2010, Local manager: Prof.dr.eng. Sergiu Nedevschi

## PUBLICATIONS

BOOKS, MANUALS unique author: 3  
team member: 6

PROBLEMS BOOK 1

SCIENTIFIC PAPERS PUBLISHED 110:  
- unique author: 45  
- in collaboration: 65

**MOTHER TONGUE** Romanian

## Other language( s)

Self-assessment

European level (\*)

English

Italian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	B2	Independent user	B2	Independent user	C2	Proficient user
C2	Proficient user	C2	Proficient user	B2	Independent user	B2	Independent user	B2	Independent user

Date

July 18, 2019