

University POLITEHNICA of Bucharest Faculty of Automatic Control and Computers



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CSI Dr. Math., Dr. Eng. **Neculai Andrei** Scientific coordinator in the domain "System Engineering" Doctoral school of Automatic Control and Computers University Politehnica of Bucharest

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Research profile:

Areas of research of interest: Large-scale linear optimization; large-scale nonlinear optimization; sparse matrix technology; nature inspired optimization

Ph.D. coordination since 2010 1 ongoing these

Scientific publications: 20 monographs, 1 book chapter, 40 articles ISI indexed, 16 scientific papers, 400 technical reports

Research projects (over 1 Mil. lei)

1.	Project Director: Dr. Neculai Andrei Data Center and Cloud Computing	Internal program ICI- Bucharest	2012-2013
2.	Project Director: Dr. Neculai Andrei Cloud-type infrastructure for public institutions in Romania – ICIPRO	POS CCE: Call no. 5/ Priority axis 3/ Operation 3.2.1	2013-2015
	Contract no.: 1194/321 / 06.12.2013 SMIS: 48594 EU project Total value: 17, 280 M Euro		

Chair, Membership in scientific organisations and committees:

- Titular member of the Romanian Scientists Academy, Section "Information Science and Technology", http://www.aosr.ro/product/andrei-neculai/
- Member of the European Research Consortium: "ERCIM European Research Consortium for Informatics and Mathematics", Working Group "Applications of Numerical Mathematics in Science".
- Founder of the Romanian Operational Research Society, since 1990
- Member of SIAM (*Society for Industrial and Applied Mathematics*), USA, Section Optimization
- Member of MCDM Multiple Criteria Decision Making Society, USA
- Member of IFAC (International Federation of Automatic Control) Technical Area 2
- (Design Methods) on TC 2.4. http://multimedia.gsem.urfu.ru/optimal_control/members.html
- Member of *EUROPT* the Continuous Optimization Working Group of EURO, <u>http://europt.iam.metu.edu.tr/</u>
- Member of the Mathematical Optimization Society (MOS), http://www.mathopt.org/
- Founder of ROSIM, the Romanian Society for Simulation. <u>http://rosim.ro/</u>
- Member of the Working Group on Generalized Convexity (WGGC) http://www.genconv.org/

Membership in editorial boards:

- Computational Optimization and Applications, member of the editorial board
- Studies in Informatics and Control, member of the editorial board
- Advanced Modeling and Optimization journal, editor-in-chief

- Annals, Series on Science and Technology of Information, Academy of Romanian Scientists member of the editorial board
- Annals of Pure and Applied Mathematics, member of the editorial board
- Revista Romană de Informatică și Automatică, editor-in-chief
- British Journal of Mathematics & Computer Science, member of the editorial board
- Revue d'Analyse numérique et de Théorie de l'Approximation, member of the editorial board

Themes for doctoral research proposed:

- Gradient flow methods for constrained optimization
- High performance computing methods for unconstrained optimization. Advanced conjugated gradient methods. Hybrid methods
- High performance computing methods for sparse methods with constrained optimization
- Optimizations inspired from nature