CURRICULUM VITAE

Name: Neculai ANDREI

Date and place of birth: September 23, 1948, Bacău - Romania

Citizenship: Romanian

Studies:

University:	University „*Al. Ioan Cuza*" – Iaşi. Faculty of Mathematics-Mechanics	University „*Politehnica*" – Bucharest, Faculty of Automatic Control and Computers
Period:	Oct. 1966-Aug. 1969	Oct. 1969-July 1973
Title:	Mathematician	Engineer

Research domains:
- High performance digital computing
- Computing technology with sparse matrices,
- Large scale, linear-dynamic systems
- Algebra-oriented mathematic programming languages
- Large scale linear and nonlinear optimization
- Nature-inspired optimization

Ph.D. thesis: Contribution to the development of large-scale systems, Sept. 1980-Dec. 1984

Specializations:
1) University of Duisburg, Germany: *Methods and algorithms for large-scale nonlinear optimization using penalty methods with sparse matrices,* Alexander von Humboldt scholarship, 1990 - 1991
2) University of Duisburg, Germany: *Algebra-oriented languages for mathematical programming. Theory of compilers,* Alexander von Humboldt scholarship, 1992 - 1993
3) University of Bayreuth, Germany, *Methods and algorithms for large-scale optimization using Hessian approximation techniques,* Alexander von Humboldt scholarship, 1996 - 1997
4) CERFACS (Centre Européen de Recherche et de Formation Avancée en Calcul Scientifique), Toulouse, France, 2001, 2009, http://www.cerfacs.fr/algor/reports/2001/TR-PA-01-105.pdf
5) Technical University of Berlin, Institute of Mathematics, Germany, 2012

Membership of academies:
Member of Romanian Scientists Academy, Information Science and Technology section since 2007, full member since 2015, http://www.aosr.ro/product/andrei-neculai/

Work experience, positions:
- 1973- present: Scientific Researcher 1, National Institute for Research and Development Institute in Informatics (ICI), Bucharest
- 2000-2002: Technical Director of ICI
- 2009-2016: Scientific Director of ICI

Membership of professional organizations and scientific bodies:

- Member of the EU Research Council *ERCIM – European Research Consortium for*
- *Informatics and Mathematics*, Workgroup *Working Group – Applications of*
- *Numerical Mathematics in Science*
- Founding member of the *Romanian Society for Operational Research* since 1990
- Member of the *Society for Industrial and Applied Mathematics*, SIAM, USA
- Member of the *Society for Multiple Criteria Decision Making*, MCDM, USA
- Member of *IFAC TC Design Methods*
- Member of *EUROPT - the Continuous Optimization Working Group of EURO*, http://europt.iam.metu.edu.tr/
- Member of *The Mathematical Optimization Society (MOS)*, http://www.mathopt.org/
- Founding member *The Romanian Society for Simulation*, ROSIM, http://rosim.ro/
- Member of *The Working Group on Generalized Convexity* (WGGC)

Membership of Editorial Boards:

- Editor-in-Chief of the scientific journal "*Advanced Modeling and Optimization*", since 1995, http://www.ici.ro/camo
- Editorial board member of the journal "*Computational Optimization and Applications*", Springer + Business Media – Boston – USA, http://www.springerlink.com/
- Editorial board member of the journal "*Systems Science and Complexity*", Science Press, China & Allerton Press, Inc., USA (2001-2005)
- Member of the Editorial Board of the journal "*Optimization Forum*" - "*Computational Optimization and Applications*", Springer + Business Media – Boston, USA since 2000, (http://www.math.ufl.edu/~hager/coap)
- Member of the Editorial Board of the journal "*Studies in Informatics and Control*"- Bucharest, Romania, since 1998 (http://www.ici.ro/ici/revista/sic.html)
- Member of the Editorial Board of the journal "*ANNALS of Academy of Romanian Scientists – Science and Technology of Information*", AOSR Press, Bucharest, http://www.aos.ro/site_mod/site_mod_eng/bibl_annals_sectia12.html
- Editor-in-Chief of the journal *Revista Română de Informatică şi Automatică*, ICI Publishing House, Bucharest, since 1996, http://rria.ici.ro/
- Member of the Editorial Board of the journal: *British Journal of Mathematics & Computer Science* (BJMCS), http://www.sciencedomain.org/editorial-board-members.php?id=6
- Member of the Editorial Board of the journal „*Annals of Pure and Applied Mathematics*" *(APAM),* http://researchmathsci.org/APAMeditorial.html
- Member of the Editorial Board of the journal „*Applied Mathematical and Computational Sciences*", http://www.mililink.com/journals_desc.php?id=60
- Member of the Editorial Board of the journal „*Transnational Journal of Mathematical Analysis and Applications***",** JYOTI Academic Press, http://jyotiacademicpress.net/

Foreign languages: English, German

Awards:
- "Grigore Moisil" award of the Romanian Academy, 2001, for the monograph: *Programarea Matematică Avansată - Teorie, Metode computaţionale, Aplicaţii.* Technical Press, Bucharest, 1999, ISBN: 973-31-1387-0
- "Best book in informatics" award of the Romanian Editors Association, 2003, for the monograph: *Modele, Probleme de Test şi Aplicaţii de Programare Matematică,* Technical Press, Bucharest, ISBN 973-31-2094-4

- "Stefan Odobleja" award of the Romanian Scientists Academy, 2014, for the monograph: *Eseu despre Fundamentele Modelării Matematice,* Romanian Academy Publishing House, 2012, ISBN 9-789732-722-0-46

Publications:

40+ articles von ISI indexed journals, 30+ papers in journals indexed in otrher data bases, 20 monographs and books in national and international publishing houses, and 300+ technical reports.

Patented products (ORDA):

SAMO – Advanced informatics technology for modelling and optimization, ORDA code: 11370009
CGALL – Nonlinear unconstrained optimization package, ORDA code: 113700012
SCALCG – Unconstrained optimization software based on conjugated gradient algorithms, ORDA code: 113700010
SPENBAR – Optimization package for nonlinear constrained package, with large dimension equalities/ inequalities, ORDA code: 113700011

Distribution of citations:

a) **Google Scholar Citations:** Citations: 1372 (January 2017), h-index: 19, i10 index: 31
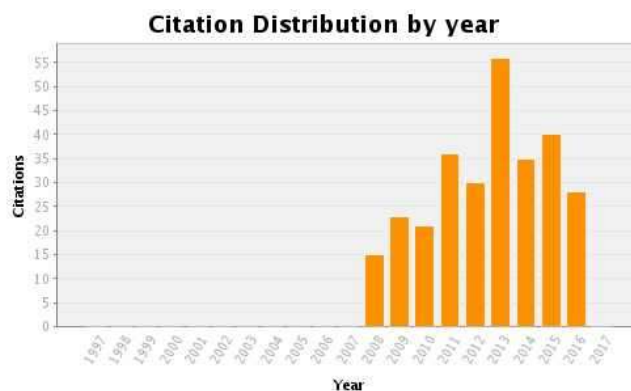
b) **Microsoft Academic Search:**

Neculai Andrei
[National Institute for Research & Development in Informatics, Romania](#)
Google Scholar:
Nonlinear Optimization ranked position 17 out of 69 with 1372 citations.

c) **ISI Web of Knowledge – Thomson Reuters**
Neculai Andrei. Researcher ID: A-3933-2010
[URL:http://www.researcherid.com/rid/A-3933-2010]

Total Articles in Publication List:	24
Articles With Citation Data:	18
Sum of the Times Cited:	284
Average Citations per Article:	15.78
h-index:	11

Citation Distribution by year

This graph shows the number of times the articles on the publication list have been cited in each of the last 20 years. Note: Only articles from **Web of Science Core Collection** with citation data are included in the calculations.

Home page: http://camo.ici.ro/neculai/nandrei.htm