europass Curriculum Vitae Ion Necoara

PERSONAL INFORMATION ION Necoară



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Sex: M | Date of birth: 20/09/1977 | Nationality: Romanian

POSITION

Professor

WORK EXPERIENCE

February 2009 - Present Assistant Professor, Associate Professor, Professor

University Politehnica Bucharest, Faculty of Automatic Control and Computers

Teaching and research activities

Head of Optimization, Learning and Control Group

2025 - Present

PhD advisor in systems engineering

EDUCATION

Postdoc (Research Assistant): *Numerical optimization for large-scale problems* KU Leuven, Belgium.

April 2007 – March 2009

November 2002 – October 2006

Doctoral studies in *Applied Mathematics*Technical University Delft, The Netherlands

October 2000 - July 2002

Master in Statistics and Optimization

University of Bucharest - Faculty of Mathematics and Computer Science

BA Mathematics

October 1996- July 2000

University of Bucharest - Faculty of Mathematics and Computer Science

- Mathematics
- Systems theory
- Numerical methods and optimization
- Probabilities and statistics

PERSONAL SKILLS

Organisational/managerial skills

- Director for several national and international research projects (H2020, FP7, UEFISCD TE and PCE)
- Head of Optimization, Learning and Control Group composed of 6 faculty members and several equipments for research.

Competences

Supervising several bachelor and master students and 7 phd students (Dr. A. Patrascu assist. professor at Univ. Bucharest; Dr. V. Nedelcu manager at Assystem Romania; Drd D. Lupu assistant researcher at UPB; Drd L. Ghinea; Drd. Y. Nabou; Drd. F. Chorobura; Drd. N. Kumar).

RECOGNITION

- Romanian representative at European Control Association (EUCA) since 2020.
- National Order Faithful Service For Merit from Romanian Presidency, 2017.
- Fulbright Visiting Professor fellowship at UNC (USA), 2017.
- Excellence in Research Award, in Engineering Sciences, Ad Astra, 2016.
- Grigore Moisil Award, in Information Technology, Romanian Academy, 2015.
- Best Paper Award in Journal of Global Optimization 2015 (ISI-Q1).

COMPETENTE P

Awards

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ADDITONAL INFORMATION

Publications

 Author of more than 130 research papers (42 ISI journal articles with cumulative impact factor larger than 100 out of which 30 Q1 and 10 Q2). Available at: www.acse.pub.ro/person/ion-necoara

About 3000 citations in GS and Hindex 28; 1100 citations in WoK and Hindex 20.

Proiects

Director of 6 research grants: H2020 - ITN, FP7 - ICT, UEFISCDEI - PCE, UEFISCDI - TE

FIELDS OF INTEREST

- Theory and methods for Convex Stochastic Big Data Optimization.
- Developing optimization algorithms with a focus on structure exploiting.
- Mathematical guarantees about performance of numerical optimization algorithms.

Current research topics

- Applying optimization techniques for developing new advanced controller design algorithms for complex systems (Embedded and Distributed Control/Model Predictive Control).
- Practical applications include: Big Data Models, Mining and Data Analytics (smart electricity grids, traffic networks, weather forecasts, distributed control, compressive sensing, image/signal processing, machine learning), Embedded Control, Control of Robots, Automotive Industry.

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