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 *Distributed Optimization and Control Lab*

EDUCATION

April 2007 – March 2009

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

November 2002 – October 2006

Doctor in *Applied Mathematics*
TU Delft, Netherlands

October 2000 - July 2002

Master in Statistics and Optimization
University of Bucharest – Faculty of Mathematics and Computer Science

October 1996- July 2000

BA Mathematics
University of Bucharest – Faculty of Mathematics and Computer Science

- Mathematics
- Systems theory
- Numerical methods
- Optimization and probabilities

PERSONAL SKILLS

Organisational/managerial skills

Director for several national and international research projects (FP7 – EU, UEFISCDI)

Competences

Supervising several bachelor students, 6 master students, and 4 Ph.D. students (Dr. Q. Tran-Dinh assist. professor at University of North Carolina, Dr. A. Patrascu assist. professor at Univ. Bucharest, Dr. V. Nedelcu manager at Assystem Romania).

RECOGNITION

Awards

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, and Best Paper Award in International Conference on System Theory, Control and Computing 2014.

COMPETENTE PERSO

ADDITONAL INFORMATION

Publications

Author of more than 100 research papers (32 ISI journal articles with cumulative impact factor larger than 60). Available at: www.acse.pub.ro/person/ion-necoara

Projects

Director of 6 research grants.

FIELDS OF INTEREST

Current research topics

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