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## Curriculum vitae

### Personal information

Surname(s) / First name(s)

**Arnautu, Viorel, Prof. Dr.**

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Nationality(-ies)

Romanian

Date of birth

13.10.1955

Gender

male

### Work experience

**Dates**

**Occupation or position held:**

- 2002 - current: Full Professor (Applied Mathematics and Information Technology)  
Faculty of Mathematics  
University of Iasi, Romania
- 1992 - 2002: Associate Professor (Numerical Analysis and Information  
Technology)  
Faculty of Mathematics  
University of Iasi, Romania
- 1982 - 1992: Assistant Professor (Numerical Analysis and Computer Science)  
Faculty of Mathematics  
University of Iasi, Romania

### Visiting Positions

Institut for Applied Mathematics, Freiburg, Germany (1984)

Department of Mathematics, Universita degli Studi di Bari, Italy (1985)

fellowship MRT (Ministry of Research and Technology of France) in Applied  
Mathematics at the Laboratory of Numerical Analysis, CNRS and  
University Paris VI, France (1991)

co-operation in the research project "Optimal Control and Numerical Methods"  
with Professor Pekka Neittaanmäki, University of Jyväskylä, Laboratory of  
Scientific Computing, Finland (1992,1993,1995,1996)

co-operation in the research project "Partial Differential  
Equations and Variational Equations" with Professors Jürgen Sprekels and  
Dan Tiba at the Weierstrass Institute for Applied Analysis and  
Stochastics (WIAS), Berlin, Germany (1997,1998)

co-operation in the research project "Partial Differential Equations and Variational Equations" with Dr. Dietmar Hömberg, at the Weierstrass Institute for Applied Analysis and Stochastics (WIAS), Berlin, Germany (1999)

co-operation in the research project "Algorithmic Realization for Optimal Control Problems" with Professor Pekka Neittaanmäki, University of Jyväskylä, Department of Mathematical Information Technology, Finland (1999, 2001-2003)

Lecturer at "Jyväskylä Summer School" (ECTS system), Finland (2000)

member of the research team "Partial Differential Equations and Variational Equations" directed by Professor Jürgen Sprekels, Weierstrass Institute for Applied Analysis and Stochastics (WIAS), Berlin, Germany (2002, 2003)

member of the research team "Nonlinear Optimization and Inverse Problems" directed by Professor Dietmar Hömberg, Weierstrass Institute for Applied Analysis and Stochastics (WIAS), Berlin, Germany (2004, 2005)

Visiting Professor at Department of Mathematics, University of Milan, Italy (2006)

Teaching for Erasmus Project at Department of Mathematics, University of Milan, Italy (2009, 2010)

## **RESEARCH INTERESTS**

### **Mathematics**

- Numerical methods (theory, algorithms and computer programs) for Optimal Control Problems
- Numerical methods for Hamilton-Jacobi equations (the synthesis of optimal control)
- Numerical methods for Differential and Integral Equations

### **Applications**

- Applied mathematics, applied optimal control problems
  - free boundary problems
  - epidemic models
  - optimization of plates
  - laser hardening of steel
  - 3D curved mechanical structures
  - Life Sciences models (population dynamics, insulin-glucose dynamics)

## **PUBLICATIONS**

- More than 30 scientific papers in refereed international journals
- One monograph (in cooperation) published by Kluwer Academic Publishers, one monograph (in cooperation) published by Birkhäuser (Boston), a textbook Published by the Publishing House of the University of Jyväskylä, Finland

Name and address of employer Faculty of Mathematics  
University "Al.I. Cuza"  
Bd. Carol I, No. 11  
700506 - IASI  
Romania

Type of business or sector Research and higher education

### **Education and Training**

Dates	Title of qualification awarded
1978	Graduate in Mathematics and Computer Science, University of Iași .
1987	Ph.D. In Applied Mathematics, University of Iași
1991	Postdoc at the Laboratory of Numerical Analysis, CNRS and University Paris VI