

Curriculum Vitae (summary)

PERSONAL INFORMATION

Family name, First name: **Datcu, Mihai**

Nationality: **Romanian and German**

Data of birth: **June 16th, 1954**

EDUCATION

1999 Habilitation in Computer Science, University Louis Pasteur, Strasbourg, France

1986 Doctor Engineer in Electronics, Polytechnic Institute of Bucharest, Romania

1978 Dipl.-Eng. in Electronics and Telecommunications, Polytechnic Institute of Bucharest, Romania

Note: The former Polytechnic Institute of Bucharest has been renamed into University Politehnica of Bucharest (UPB).

CURRENT AND PREVIOUS POSITIONS

1993 - present Senior Scientist at German Aerospace Center (DLR), Remote Sensing Technology Institute (IMF) and Team Leader for Image Mining and Understanding

2005 – 2010, extended to 2013 Professor, holder of the CNES/DLR Chair of Information Extraction and Image Understanding for Earth Observation, and coordinator of the CNES/DLR/Télécom Competence Centre, Paris Institute of Technology (Télécom Paris), Paris, France

1992 - 2004 Invited Professor, Image Science Dept., Institute for Communication Technology, Swiss Federal Institute of Technology (ETH), Zurich, Switzerland

1981 - present, (on leave) Professor, Faculty of Electronics, Telecommunications and Information Technology, UPB (1981-1990 Assistant/Associate Prof., 1990 - present Prof.)

1978 - 1981 Scientist, Electrical Research Institute (ICPE), Bucharest, Romania

SYNERGISTIC ACTIVITIES

Invited Professor Positions (chronologically since 1991) Faculty of Mathematics, University of Oviedo, Spain; Swiss Center for Scientific Computing (CSCS), Manno, Switzerland; International Space University (ISU), Strasbourg, France; Dept. of Computer Science, University Louis Pasteur, Strasbourg, France; Center for Sensor Systems (ZESS), University of Siegen, Germany; Dept. of Bio-Informatics, University of Camerino, Italy; Dept. of Geo-Informatics, Universidad Pontificia de Salamanca, Madrid, Spain; Dept. of Computer Science, University Tor Vergata, Rome, Italy; Dept. of Signal and Communication Theory, University of Alcalá, Spain; University of Trento, Italy; UNICAMP, Campinas, Brazil; Shenyang Institute of Automation of China Academy of Science, China.

TEACHING ACTIVITIES

Teaching summary: Theory of Information Transmission, Decision and Estimation Theory, Data Communication, Image Analysis, Data Mining, Remote Sensing Technology, Geoinformation Theory and Engineering, Radar Systems, SAR Processing and Applications.

Directing or co-directing 32 Ph.D. theses defended at the Swiss Federal Institute of Technology (ETH), Zurich, Switzerland; University of Siegen, Germany; ParisTech (Télécom Paris), France; Technical University of Berlin, Germany; Technical University of Munich, Germany; University Politehnica of Bucharest, Romania. Directing or co-directing 83 M.S. theses in information theory, signal processing, electronics.

PUBLICATIONS SUMMARY

- Theses: 2 (Ph.D. dissertation and habilitation)
- Articles in peer reviewed journals: published 93 (IEEE TGRS, TMM, TKDE, TIP, SPL, etc.)
- Articles in conference proceedings more than 400.
- Books: published: 1, chapters published: 8, books under work: 2
- Invited conferences, key notes, tutorials: 77

HONORS AND AWARDS

- 2013 IEEE Fellow, Computer, Signal Processing and Geoscience and Remote Sensing Societies, for contributions to information mining of high resolution synthetic aperture radar and optical Earth observation images
- 2008 National Order of Merit with the rank of Knight awarded by the President of Romania, for outstanding international research results
- 2006 Best Paper Award, IEEE Geoscience and Remote Sensing Society Prize
- 2000 DLR Senior Scientist for activities in Information Theory, Image Analysis, and Image Information Mining
- 2000 DLR diploma of merit for the activities in the fields of Synthetic Aperture Radar (SAR) and SAR Interferometry in the Shuttle Radar Topography Mission project (X-SAR/SRTM)
- 1987 Romanian Academy *Traian Vuia* Prize awarded for the development of the SAADI image analysis system and activities in image processing
- 1977/78 Best student of the Republic Fellowship
- 1975 Award from the National Students Contest in Theoretical Physics

FURTHER PROFESSIONAL ACTIVITIES

- 2017 Guest Editor IEEE Transactions on Big Data
- 2012 - 2016 Member of the Council of the Doctoral School, Faculty of Electronics and Telecommunications, UPB
- From 2011 Advisory Member of ESA's IPC, PB-EO and DOSTAG representing Romania
- From 2014 Member of the European Big Data from Space Coordination Group (BiDSCG)
- 2003 - 2014 Member of the European Image Information Mining Coordination Group (IIMCG)
- 2008 - 2012 Member of the NATO Science for Peace & Security Panel
- From 2003 Member of the IEEE Data Archiving Working Group
- From 2009 International Editorial Board Member, International Journal of Image and Data Fusion
- From 2009 Organizer and Co-chair of the joint GEOSS Workshop and Summer School on Innovative Data Mining Techniques in Support of Global Earth Observations
- 2008 - 2010 Guest Editor, IEEE Geoscience and Remote Sensing Letters, Special Issue on Image Information Mining: Pursuing Automation of Geospatial Intelligence for Environment and Security
- 2006 - 2007 Guest Editor, IEEE Transactions on Geoscience and Remote Sensing, Special Section on Image Information Mining for Earth Observation Data
- From 1997 On a yearly base, Chair or Co-chair of IGARSS sessions on SAR, Image Analysis, Compression, or related topics
- From 2002 Organizer and Chair of the ESA-SatCen-JRC Image Information Mining Conference
- From 1998 Organizer and Chair or Co-chair of international conferences or workshops
- From 2003 Member of the Scientific Council of the International Postgraduate Program (IPP), Zentrum für Sensorsysteme (ZESS), University of Siegen, Germany
- 2000 - 2009 Organizer and chair of the yearly DLR-CNES (CCT) Workshop on information extraction from high resolution SAR and optical EO images
- 1998 - 2006 Participant in the NATO SET/TG.14 working group Advanced Millimeterwave Techniques for Ground Target Acquisition
- From 1993 Reviewer and jury member for Ph.D. and Habilitation theses at several universities in France, Germany, Italy, Slovenia, Spain, and Romania
- From 1998 Reviewer of large projects or institutions (Belgium, Israel, Italy, Spain, and Romania)
- From 1993 Reviewer of international journals
- 1996 - 1998 Member of the CEOS Working Group on Calibration and Validation - SAR Subgroup
- 1993 - 2000 Member of the ESA Working Group on Data Compression
- 1990 Diplomatic representative of Romania in the United Nations Committee on the Peaceful Uses of Outer Space (COPUOS), New York
- 1986 - 1991 Representative of the Faculty of Electronics and Telecommunications in the University Senate, Polytechnic Institute of Bucharest, Romania