



Curriculum vitae Europass



Personal Information

Name / Surname ABRUDEAN MIHAIL IOAN
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Naționalitate) romanian
Data of birth 08.11.1947
Gender male

Desired employment / Occupational field: Technical University of Cluj-Napoca, Faculty of Automation and Computer Science, Department of Automation

Work Experience

- Period:**
- ▣ 2012 – 2016 – Vice-President of the Senate, Technical University of Cluj-Napoca
 - ▣ 2008 – 2012 – Vice-Rector, Technical University of Cluj-Napoca, Romania
 - ▣ 2000 – 2008 – Vice-Dean of the Faculty of Automation and Computer Science and Member of the Senate, TUCN
 - ▣ 1994 – 2000 – Associate Professor (1994) and Full Professor (1998); Faculty of Automation and Computer Science; Department of Automation and Computer Science; specialization: Automatic Systems Engineering
 - ▣ 1981 – 1994 – Senior Researcher CPII, Institute of Isotopic and Molecular Technology, Cluj-Napoca; Associate Lecturer, Department of Automation
 - ▣ 1970 – 1994 – Principal Scientific Researcher Grade III, II, Institute of Isotopic and Molecular Technology, Cluj-Napoca; specialization: isotope separation

Position held: Full Professor, Department of Automation

Main activities and responsibilities: Teaching and research activities

Name and address of employer: Technical University of Cluj-Napoca, Romania
Field: Systems Engineering

Education and Training

- Electromechanical Engineer, Faculty of Electrical Engineering, Cluj-Napoca, 1970
2004 – present – PhD Supervisor
- Period**
- 1981 – PhD in Engineering (Automatic Systems), State Committee for Nuclear Energy, Institute of Atomic Physics, Bucharest
 - 1970 – Electromechanical Engineer; Polytechnic Institute of Cluj-Napoca, Faculty of Electrical Engineering, Electromechanics specialization
 - Training stages in Georgia (1981), Netherlands (1998), Austria (1999, 2000, 2001), Spain (2003)

Period	-2004 – present – PhD Supervisor -1981 – PhD in Engineering (Automatic Systems), State Committee for Nuclear Energy, Institute of Atomic Physics, Bucharest -1970 – Electromechanical Engineer; Polytechnic Institute of Cluj-Napoca, Faculty of Electrical Engineering, Electromechanics specialization - Training stages in Georgia (1981), Netherlands (1998), Austria (1999, 2000, 2001), Spain (2003)
Qualification awarded:	-Electromechanical Engineer, Faculty of Electrical Engineering, Cluj-Napoca, 1970
Disciplinele principale studiate / competențe profesionale dobândite	-Industrial process control -Systems theory and automation -Advanced control of unconventional processes -Electronics
Name and type of organisation providing education and training:	Technical University of Cluj-Napoca
Level in national or international classification:	Level in national or international classification:
Mother Tongue	romanian
Foreign Languages	French, Russian, English
Self-assessment (Common European Framework of Reference for Languages)	French: French:Listening C1, Reading B2, Spoken interaction C1, Spoken production B2, Writing C1 Russian::Listening B2, Reading B2, Spoken interaction B2, Spoken production B2, Writing B2 English:Listening C1, Reading B2, Spoken interaction C1, Spoken production B2, Writing C1
	<i>(*) Nivelul Cadrului European Comun de Referință Pentru Limbi Străine</i>
Social Skills and Competences	<ul style="list-style-type: none"> ▮ 2012 – 2016 – Vice-President of the Senate, Technical University of Cluj-Napoca ▮ 2008 – 2012 – Vice-Rector, Technical University of Cluj-Napoca ▮ 2000 – 2008 – Vice-Dean of the Faculty of Automation and Computer Science and Member of the Senate ▮ 1996 – 2016 – Member of the Faculty Council ▮ 1996 – 2000; 2012 – 2016 – Member of the Department Council of Automation ▮ 1970 – present – Director of 28 scientific research projects ▮ 1970 – 1993 – Member of the Scientific Council of ITIM Cluj-Napoca and IPA Bucharest ▮ Doctor Honoris Causa of the University of Oradea (2014), “1 Decembrie” University of Alba Iulia (2014), and Sapientia University (2020) ▮ Honorary Member of the Academy of Technical Sciences of Romania (2019)
Organisational Skills and Competences	-Organizer of international conferences:ITIM (1972–1982);General Vice-Chair IEEE TTIC – International Conference on Automation, Quality and Testing, Robotics (AQTR) 2006–2018 (ISI WoS indexed);Chair IFAC ICPS (2007, 2013);ETS 2015;International Symposium DDECS, May 2019, Cluj-Napoca

Computer Skills and Competences	<ul style="list-style-type: none"> -108 requests for copies of own published papers (national and international) -857 citations (Google Scholar), of which 476 in books and ISI-indexed papers - 25 university textbook reviews -Member of IFAC TC 6.3 Power and Energy Systems (2008); -Member of IFAC TC 9.2 Social Impact of Automation (2019); -IEEE member (since 1996) -Member of the Romanian Society of Automation and Technical Informatics (since 1994) -Member of the scientific committees of journals:ACAM – Automation, Computers, Applied Mathematics (Cluj);Journal of Computer Science and Control Systems (Oradea);Acta Technica Napocensis (Cluj) -Member of PhD examination and thesis defense committees; reviewer in academic promotion committees -Bologna Professor Award (2014) -International award: “Meritorious Service Award”, IEEE Computer Society (2015)
Additional Skills and Competences	<ul style="list-style-type: none"> -Operating systems administration (Linux, Windows) -Document preparation using application packages (Microsoft Office, Open Office, web editors) -Administrarea sistemelor de operare (Linux, Windows) -Elaborarea documentelor cu pachete de aplicatii (Microsoft Office, Open Office, editoare web)
Research topics	<ul style="list-style-type: none"> -Systems theory and automatic control =Automation of isotope separation processes (deuterium, uranium, stable isotopes) and nuclear energy -Process modeling and simulation
: Driving Licence:	Category B
Additional Information	<ul style="list-style-type: none"> - Modeling and simulation of isotope separation processes - 5 patented and implemented inventions -Technologies and production plants for heavy water, uranium hexafluoride, and stable isotope separation -Automatic heavy water vapor recovery installation at the Cernavodă nuclear reactor -High-power pulsed CO₂, N₂, He laser (100 Hz, 500W) for isotope separation -1000A electrolyzer for gaseous fluorine production - Automation components (flow and pressure transducers for toxic and corrosive gases, explosion-proof actuators) specialized for low temperatures (70K) - Laboratory equipment
Publications:	<ul style="list-style-type: none"> -15 books published by national and international publishers -305 published and conference papers (ISI: 177; BDI: 9) -5 applied invention patents -887 citations (Google Scholar), of which 476 in books and ISI papers - 27 university textbook reviews -h-index: 9 (Web of Science), 14 (Google Scholar), 9 (Scopus ID 57195338168), 5 (Scopus ID 56458512500)
Grants and Research Contracts	<ul style="list-style-type: none"> -111 competitively awarded research contracts, including: -28 as project director (State Committee for Nuclear Energy, CNCSIS, CEEX, Partnerships), -7 European projects (FSE – POSDRU, POCU) - 21 new technologies developed, certified, or patented

Prof.dr.ing.DHC Mihail Ioan Abrudean

Cluj Napoca 02.16.2026