

## CORINA-ANCA MNERIE

### Curriculum Vitae

<http://www.researcherid.com/rid/J-2933-2012>

*h-index = 4 (ISI Web of Science)*



#### EDUCATION

- **Ph.D. in Automatic Control** (24.04.2015), *Politehnica Univ. of Timisoara* (Romania). Thesis: Control solutions for optomechatronic devices used in biomedical applications; Supervisor, Prof. Stefan Preitl, 2003-2015;
- **Master in Automation** (2001), *Politehnica Univ. of Timisoara, Romania*. **Master Diploma Thesis:** *Some research on the Takagi-Sugeno fuzzy controllers*, advisor Prof. Radu Emil Precup, 2000-2001;
- **Diploma Engineer (M.Sc.) in Automatic Engineering**, major in Control Systems (2000), *Politehnica Univ. of Timisoara, Romania*, Diploma thesis: *The implementation of the Ray-tracing algorithm and enriching the image using anti aliasing techniques*; advisor Prof. Ionut Lungu, 1995-2000;
- **Moise Nicoara National College** (for Mathematics and Physics), Arad, Romania, 1991-1995.

#### SOCIAL STATUS

Born: October 3, 1976 in Lugoj, Timiș County, Romania;  
Married: since 2004; two children;  
Nationality and citizenship: Romanian. Religion: Christian Ortodox.

**LANGUAGES:** **English:** very good; **Romanian:** native.

**TEACHING & RESEARCH** (16 years of experience): Control Systems; Fuzzy Systems; Systems Theory; Systems Modeling and Simulation; Quality Engineering.

#### POSITIONS

- **Lecturer & Postdoctoral Researcher**, 2016-Present, Faculty of Engineering, *Aurel Vlaicu Univ. of Arad, Romania*;
- **Teaching & Research Assistant**, 2004-2015, Faculty of Engineering, *Aurel Vlaicu Univ. of Arad, Romania*;
- **Teaching Assistant**, 2002-2004, Dept. of Automation and Applied Informatics, Faculty of Automatics and Computers Science, *Politehnica Univ. of Timisoara, Romania*;
- **IT Manager**, 2000-2004, S.C. Azoma S.A., Arad, Romania.

#### SCIENTIFIC PAPERS <http://www.researcherid.com/rid/J-2933-2012>

23 published papers (9 as first author, 14 as co-author).

- 1 in ISI Journal
- 3 in peer-reviewed journals;
- 13 in ISI and International Data Bases proceedings;
- 6 in other conference proceedings.

One Romanian patent: Duma V.F., Nicolov M. F, **Mnerie C.**, Szantho L., Modulator optic cu miscare de rotatie, OSIM, nr. 126505/29.07.2016, <http://www.osim.ro/publicatii/brevete/bopi-2016-inv.htm>

<https://scholar.google.com/citations?user=zI6w7r8AAAAJ&hl=ro>

<http://orcid.org/0000-0002-9710-7781>

<https://www.scopus.com/authid/detail.uri?authorId=35178155300>

**CITATIONS** (July. 2019): 63/45 time cited on ISI Web of Science/ excluding self-citations;

### **BOOKS & BOOKS CHAPTERS**

Two chapter in an internationally edited book (Springer).

### **RESEARCH GRANTS & CONTRACTS**

1. **Researcher**, PN-III-P2-2.1-BG-2016-0297, Contract: 48BG / 01.10.2016, *Optomechatronic choppers with rotational discs and shafts with windows for metrological, biomedical, and laser manufacturing applications*, ANCS-UEFISCDI, oct. 2016-sept. 2018 (UAV 102000€)
2. **Researcher, PTE - Transfer to Industry Grant** PN-III-P2-2.1-PTE-2016-0181, Contract: 24 PTE/2016, Handheld scanning probes with 1d and 2d galvoscaners for biomedical and industrial investigations using Optical Coherence Tomography (OCT), ANCS-UEFISCDI, oct. 2016-sept. 2018, (UAV 151120€)
3. **Researcher**, PN-III-P2-2.1-PED-2016-1937, Contract 1937 / 01.01.2017, Micro-Electro-Mechanical Systems (MEMS)-based handheld scanning probes for distortion-free biomedical imaging with Optical Coherence Tomography (OCT), ian 2017-iul 2018, (UAV 66667€)
4. **Researcher, PARTNERSHIP Grant** code PN-II-PT-PCCA-2011-3.2-1682, Romanian National Authority for Scientific Research, ANCS–UEFISCDI: *Optical Coherence Tomography (OCT) systems with handheld and endoscope probes for real-time investigations in material studies and for in vivo medical imaging* (950k€), **2012-2016**;
5. **Researcher, IDEAS Grant, NURC/CNCS** (National University Research Council) code 1896/2008, Romanian Education and Research Ministry: *Analysis and design of some polygonal and galvanometer-based, 1D and 2D scanners*, **2009-2011** (100k€);

### **AFFILIATIONS**

- **SPIE** (International Society for Optical Engineering), Bellingham, WA, since 2011;
- **AGIR** (The General Association of Engineers in Romania) – since 2007;
- **SRAIT** (Romanian Society of Automation and Technical Informatics) – since 2009.

### **TEACHING ACTIVITY** (current topics are bolded)

- **Lectures: Automatic Control** (2016-present), **Advanced Control Systems** (2016-present), **Digital Signal Processing** (2016-present)
- **Seminars: Automatic Control Systems** (2004-present); Quality Engineering (2004-2009); **Systems Theory** (2007-present)
- **Laboratories: Control Systems** (2004-present); Industrial Engineering (2005-2009); **Modeling and Simulation of the Control Systems** – Matlab/Simulink (2007-present); **Peripheral Equipments of Computers** (2010-present); **Analysis and Synthesis of Digital Devices** (2011-present); **Analogic Electronic Circuits** (2011-present), **Systems Theory** (2011-present), Biomedical Engineering (2011-2015), **Digital Signal Processing** (2016-present).

### **SYMPOSIA PARTICIPATION**

#### **International:**

- LASER – Word of Photonics Congress (SPIE Conferences), Munchen (Germany) **2011**;
- LASER – Word of Photonics Congress (SPIE Conferences), Munchen (Germany) **2013**;
- LASER – Word of Photonics Congress (SPIE Conferences), Munchen (Germany) **2017**;
- SACI - 8th IEEE International Symposium on Applied Computational Intelligence and Informatics, Timisoara (Romania) **2013**;
- SACI - 10th Jubilee IEEE International Symposium on Applied Computational Intelligence and Informatics, Timisoara (Romania) **2015**;

#### **National (Romania):**

- Aurel Vlaicu Univ. of Arad Symposia (ISREIE), Arad **2010, 2012; 2014; 2016;2018;2019**.