



PERSONAL INFORMATION

Name Marius Mircea BALAS
Address 126 Calea Radnei, 310269, Arad, Romania
Telephone 0040-756577992
Fax 0040-257-250389
E-mail *marius@drbalas.ro, marius.balas@uav.ro*
Nationality Romanian
Date and place of birth July 12, 1956, Oradea, Romania

TOTAL YEARS OF EXPERIENCE

August 1980 - today

WORK EXPERIENCE

- **Dates (from – to)** 1993-today
- **Employer** Aurel Vlaicu University of Arad, B-dul Revolutiei 310130 Arad, Romania
- **Type of business or sector** Education
- **Occupation or position held** Professor
- **Main activities and responsibilities** Teaching (courses and laboratories): Electronics (linear and digital), Automate control, Computer modelling, identification and simulation, Neuro-fuzzy systems, Power electronics, System engineering, Renewable energies, etc.
Research: Intelligent System Research Center

- **Dates (from – to)** 1984-1993
- **Employer** Scientific Research Institute for Railway Cars of Arad, Romania
- **Type of business or sector** Research & Development
- **Occupation or position held** Engineer at the Research Department, Chief of the Electric Testing Laboratory
- **Main activities and responsibilities** Design and Research

- **Dates (from – to)** 1980-1984
- **Employer** The Tool-Machines Enterprise Infratirea of Oradea, Romania
- **Type of business or sector** Industry
- **Occupation or position held** Electronic Engineer
- **Main activities and responsibilities** Experience in PLCs, CNCs and laser interferometers

- **Dates** 2004 and 2006
- **Employer** Invited Professor at the Southern University of Toulon-Var, France

EDUCATION AND TRAINING

- **Dates (from – to)** 1995-2001
- **The institution providing education and training** Politehnica University of Timisoara, Romania
- **Principal skills covered** Electronic Engineering and Telecommunications
- **Title of qualification awarded** Doctor, Cum Laude

- **Dates (from – to)** 1975-1980
- **The institution providing education and training** Politehnica University of Timisoara, Romania
- **Principal skills covered** Electronic Engineering and Telecommunications
- **Title of qualification awarded** Diplomat Engineer

SKILLS AND COMPETENCES

MOTHER TONGUE

Romanian

OTHER LANGUAGES

English Full professional proficiency (reading, writing and verbal skills)

French Full professional proficiency (reading, writing and verbal skills)

ORGANIZATIONAL COMPETENCES

Coordinator for several research projects.
Co-organizing the Control Engineering and Industrial Software Branch of the university and the afferent laboratories.
Co-organizing the Summer School "SOFT COMPUTING" 2003, 2004, 2005 and 2006 Arad.
General Co-Chair of the International Workshop IEEE SOFA 2005, IEEE SOFA 2007 and IEEE SOFA 2009.
Member of several organizing committees for different national and international scientific meetings: ISREIE, SOCO, EMEIT, etc.
Coordinator for numerous student research projects.

TECHNICAL SKILLS AND COMPETENCES

Technological background acquired in tool machines and railway transportation. Hardware (electronic equipment, PLC, FPGA, sensors, etc.) and software skills linked to electronics, automatic control, computer modeling, Artificial Intelligence and measurements.
Matlab, Xilinx ISE, CLIPS, LPA, C, Microsoft Office, etc.

PUBLICATIONS

- ResearcherID: A-8146-2010
- 28 indexed publications (Thomson Reuters);
- 3 books and 7 book chapters;
- More than 100 scientific journal and conference papers;
- Member of several editorial boards: Aurel Vlaicu Scientific Bulletin, IJSDA, Acta Technica Jaurinensis, etc.

ORIGINAL CONCEPTS

The fuzzy-interpolative systems, the passive greenhouse, the constant time to collision optimization of the traffic, the imposed distance braking, internal model bronze casting, PWM inverter for railway coaches in tropical environments, the rejection of the switching controllers effect by phase trajectory analysis, Fermat neuron, etc.

AFFILIATIONS

Senior Member IEEE
EUSFLAT (*European Society for Fuzzy Logic and Technology*),
SRAIT (*Societatea Română de Automatică și Informatică Tehnică*), etc.