

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name **VALENTINA EMILIA BALAS**
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Nationality Romanian
Date of birth 24 APRIL 1956, ARAD

TOTAL YEARS OF EXPERIENCE AUGUST 1980 -

WORK EXPERIENCE

- Dates (from – to) 1993-present
 - Name and address of employer Aurel Vlaicu University of Arad, B-dul Revolutiei 77, 310130 Arad, Romania
 - Type of business or sector Education
 - Occupation or position held Assistant Professor, Lecturer, Associate Professor, Professor
 - Main activities and responsibilities Teaching activities undergraduate and graduate students: Courses on Soft Computing, System Theory, Intelligent Systems, Virtual Instrumentation, Electronics, Measurements, sensors and transducers, Standards in Automation, Analogical and Digital Circuits, Biomedical engineering, Automatics, Discrete Events Systems.
Scientific Secretary of the Faculty of Engineering (2004-2008)
Member of the Faculty Council (2000 – 2016)
Member in the Senate of University (2000-2008), (2012 - 2016)
Head of the Intelligent Research Centre from 2009
Member of the Ethical Commission of the university 2014-2016
President of Ethical Commission of the university 2016-2018
Director of the Department of International Relations, Programs and Projects from 2017-2024
Habilitation to supervise PhD students in the field of Systems Engineering from 2018
Associate member of The Academy of Romanian Scientists from 2023
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- Dates (from – to) 1984-1993
 - Name and address of employer Scientific Research Institute for Railway Cars of Arad, Romania
 - Type of business or sector R&D
 - Occupation or position held Engineer at the Design and Research Department
Secretary of the Technical Committee No. 144 in Standardization for Rolling Stock in Romania
Chief of the Technical Department in the Institute
 - Main activities and responsibilities Design and Research
- 3.
- Dates (from – to) 1980-1984
 - Name and address of employer Airport Oradea, Romania
 - Type of business or sector Aerial Transportation
 - Occupation or position held Engineer - Adjunct of the Chief of the Air Navigation Protection Service
Metrology coordinator
 - Main activities and responsibilities Maintenance, verification and calibration of the air navigation equipment

EDUCATION AND TRAINING

- 1.
- Dates (from – to) 1995-2003
 - Name and type of organization providing education and training Polytechnic University of Timisoara
 - Principal subjects/occupational skills covered Education
Electronic Engineering and Telecommunications
 - Title of qualification awarded Dr.
 - Level in national classification Cum Laude
(if appropriate)
- 2
- Dates (from – to) 1975-1980
 - Name and type of organization providing education and training Polytechnic University of Timisoara
 - Principal subjects/occupational skills covered Education
Electronic Engineering and Telecommunications
 - Title of qualification awarded Diplomat Engineer
 - Level in national classification License
(if appropriate)

PERSONAL SKILLS AND COMPETENCES

*Acquired in the course of life and career
but not necessarily covered by formal
certificates and diplomas.*

MOTHER TONGUE

Romanian

OTHER LANGUAGES

- 1.
- Reading skills **English**
Excellent
 - Writing skills Excellent
 - Verbal skills Excellent
- 2.

- Reading skills
- Writing skills
- Verbal skills

FRANCH

Excellent
Excellent
Excellent

SOCIAL SKILLS AND COMPETENCES

Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.

Chess
Chess player – I category
Arbiter – II category

ORGANISATIONAL SKILLS AND COMPETENCES

Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.

Coordinator for research projects in the institute.
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, IEEE SOFA 2009, IEEE SOFA 2010, IEEE SOFA 2012, SOFA 2014, SOFA 2016, SOFA 2018, SOFA 2020 and SOFA 2022.
President of General Association of Engineering from Romania (AGIR), Arad branch.
President of Association of Automation and Instrumentation from Romania (AAIR), Arad branch.
President of Romanian Society of Control Engineering and Technical Informatics (SRAIT), Arad branch.
Founding member of Artificial Intelligence Romanian Association (ARIA).
Vice-president of IFSA (International Fuzzy Systems Association) – 2013-2015.
Joint Secretary of Governing Council to Forum for Interdisciplinary Mathematics (FIM), INDIA, (2013-2016).

TECHNICAL SKILLS AND COMPETENCES

With computers, specific kinds of equipment, machinery, etc.

WINDOWS XP, MICROSOFT OFFICE, INTERNET, EXCEL, C, MATLAB, MATCAD, LABVIEW
Technological background acquired in the tool machines and railway coaches fields;
Specific hardware (electronic equipment, sensors, etc.) and software skills linked to automatic control and measurements.

Papers and books:

- 15 international books and book chapters as author/co-author
- 5 national books and book chapters
- More than 100 edited books in Springer, Elsevier, CRC.
- More than 400 scientific papers published in conference volumes.
- More than 50 Invited Lectures around the world: India, China, Taiwan, Japonia, Singapore, USA, Ungaria, Pakistan, Maroc, Iran, Azerbaijan, Cehia, Tunisia, Liban, Franta, Qatar, Portugalia, Romania
- More than 260 titles indexed in ISI Web of Sciences
- 474 titles indexed in Scopus data base, Hindex = 30
- [Scopus Author ID: 9279071000](https://scopus.com/authors/details/scopus-author-id/9279071000)
- Clarivate - [Balas, Valentina Emilia - Web of Science Core Collection](https://orcid.org/0000-0003-0885-1283)
- ORCID – <http://orcid.org/0000-0003-0885-1283>
- Google Scholar - <https://scholar.google.com/citations?user=XaktX0wAAAAJ&hl=ro&oi=ao>

Research Projects:

- More than 50 projects at CCSIT Vagoane Arad as director of project
- More than 50 travel grants

- 4 projects won through international competition and 43 projects won through national competition as project leader.
- Member of the team in 3 international grants
- Member of the team in 6 national grants

Editor-in-chief of 3 journals indexed in international databases
Member of the Editorial Board of 10 ISI journals and 42 BDI journals

- Reviewer for over 40 ISI journals

ARTISTIC SKILLS
AND COMPETENCES
Music, writing, design, etc.

[Describe these competences and indicate where they were acquired.]

OTHER SKILLS
AND COMPETENCES
Competences not mentioned above.

Expert evaluator at European Commission for funding projects
Evaluator for „Nicolae Titulescu” grants.
Evaluator ARACIS - The Romanian Agency for Quality Assurance in Higher Education
Evaluator CNCSIS - The National Research Council
Expert evaluator for projects for Georgia National Science Foundation
Expert evaluator for projects PNCDI – II (2008, 2009)
Evaluator EQANIE European Quality Assurance Network for Informatics Education from 2009
Member of Multidisciplinary Development Association– Timisoara, Romania from 2002
Member of IEEE CIS – Computational Intelligence Society from 2003
Member of WCI – Woman in Computational Intelligence from 2006
Member of AAIR - Control and Instrumentation Association of Romania from 2005
Member AGIR - The General Association of Engineers from 2005
IEEE Senior Member from 2007
Member EUSFLAT European Society for Fuzzy Logic and Technology from 2007 and member in the Board of EUSFLAT from 2011 – responsible with recruiting.
Member in the Technical Committee Emergent Technologies from IEEE CIS from 2009
Member in the Technical Committee Fuzzy Systems from IEEE CIS from 2011
Member of Technical Committee – Soft Computing to IEEE SMC from 2009
Member ACM - Association for Computing Machinery from 2008
Member IEEE IES (Industrial Electronics) si SMC (Systems Man and Cybernetics) from 2009
Member of IAENG - International Association of Engineers from 2009
Member of the Academic Community to International Congress for Global Science and Technology – ICGST, Egypt, 2009
Member of International Society on Multiple Criteria Decision Making MCDM from 2009
Member of the Academy of Sciences from New York from 2009
Member of SIAM Society for Industrial and Applied Mathematics from 2010
Member of Research Gate Scientific Network, from 2010
Elected Joint Secretary of the Governing Council of Forum for Interdisciplinary Mathematics (FIM), - A Multidisciplinary Academic Body, India, 2013-2016
Elected Vice president (Awards) of the International Fuzzy Systems Association Council – IFSA, 2013-2015, USA.
Member of AIAA - American Institute of Aeronautics and Astronautics - ID number 490278, Region VII, from October 2013, member in Intelligent Systems Technical Committee.
Recipient of the "Tudor Tanasescu" Prize from the Romanian Academy for contributions in the field of soft computing methods (2019).
Elected on 2021 responsible with Volunteers to IEEE Romania section -
<https://romania.ieeer8.org/committee/section-committee/>

Member in ICT IEEE Public Policy Committee Working Group 2021 – 2022

<https://www.ieee.org/about/ieee-europe/europe-ict.html>

Member in the Committee of IEEE Romania Section as Volunteers Training Coordinator from 2022

Vice chair of IEEE Computational Intelligence Society Chapter – CIS 11, Romania

Member of IEEE European Public Policy Committee Working Group on ICT (2021-2022)

Recipient of the "Stefan Odobleja" Prize from the Academy of Romanian Scientists (2023).

Associate Member of the Academy of Romanian Scientists from May 2023

Recipient of Diploma – Section Information Technology from The General Association of the Engineers in Romania (AGIR) 2023.

DRIVING LICENCE(S)

B category from 1974

ADDITIONAL INFORMATION

1. **PROF.DR.ING. MIRCEA CIUGUDEAN**, POLITEHNICA UNIVERSITY OF TIMISOARA, ROMANIA

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E-MAIL: MACIUGUDEAN@YAHOO.COM

2. **Prof. Lakhmi C. Jain**, Professor of Knowledge-Based Engineering,

Founding Director of the KES Centre,

University of Technology Sydney, Australia

E-mail : jainlakhmi@gmail.com

3. **Prof. Janusz Kacprzyk**, Professor Janusz Kacprzyk, Ph.D., D.Sc., Dr h.c. mult.

Fellow of IEEE, IET, IFSA, EurAI, IFIP, AAIA, I2CICC, SMIA Full Member, Polish Academy of

Sciences Member, Academia Europaea Member, European Academy of Sciences and Arts

Member, European Academy of Sciences

Systems Research Institute

Polish Academy of Sciences

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Arad, 24.09.2024

Prof.habil.dr.eng. Valentina Emilia Balas

