

**EUROPEAN  
CURRICULUM VITAE  
FORMAT**



**PERSONAL INFORMATION**

Name **VALENTINA EMILIA BALAS**  
Address **CALEA RADNEI 126, 310269, ARAD, ROMANIA**  
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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: Electronics, Systems Theory, Automation of Textile Processes, Sensors and Transducers Measurement, Biomedical Engineering, Analog Integrated Circuits, Discrete Event Dynamic Systems, Artificial Intelligence, Standards in Automation – undergraduate cycle, and Soft Computing, Advanced Topics in Systems Theory, Intelligent Systems, Virtual Instrumentation – Master’s cycle.  
Scientific Secretary of the Department; Scientific Secretary of the Faculty of Engineering (2004–2008)  
Member of the Faculty Council of Engineering (2000–2016)  
Member of the University Senate (2000–2008), (2012–2016)  
Member of the Ethics Committee (2014–2016)  
Chair of the Ethics Committee of Aurel Vlaicu University of Arad (January 2016 – February 2018)  
Member of the Scientific Council of Aurel Vlaicu University of Arad (January 2016 – October 2020)  
Director of the Department for International Relations, Programs and Projects (April 1, 2017 –

May 27, 2024)  
 Director of the Intelligent Systems Research Center (since 2009)  
 Habilitated Professor (since June 2018) in the field of Systems Engineering  
 PhD Supervisor affiliated with the IoT Center of Excellence at University of Rwanda (since 2019)  
 Member of the IEEE Public Policy Committee on ICT, contributing to EU AI-related policy documents (2021–2022)  
 Associate Member of the Academy of Romanian Scientists (since 2023), and Corresponding Member (since 2025)

- 2.
- 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 Design Engineer, Head of Technical Team, Secretary of the Romanian Standardization Committee No. 144.  
Design and research activities within projects carried out by the Equipment Workshop of CCSIT Vagoane Arad.
  - Main activities and responsibilities Design and Research

- 3.
- Dates (from – to) 1980-1984
  - Name and address of employer Oradea Airport, Romania
    - Type of business or sector Air Transport
    - Occupation or position held Deputy Head of the Air Navigation Protection Service  
Maintenance, repair, and calibration of radio-navigation equipment  
Metrology Coordinator at Oradea Airport
  - Main activities and responsibilities

### EDUCATION AND TRAINING

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

### 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 Excellent
- Writing skills Excellent
- Verbal skills Excellent

2.

- Reading skills Excellent
- Writing skills Excellent
- Verbal skills Excellent

**English**

Excellent  
Excellent  
Excellent

**FRANCH**

Excellent  
Excellent  
Excellent

Chess

Category I Chess Player  
Category II Chess Arbiter

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.*

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.*

Coordination activity as Head of the Electrical Team within research and development projects at CCSIT Vagoane Arad

Co-organizer of the specialization in Automation and Applied Informatics

Co-organization and coordination of four editions (2003–2006) of the Summer School projects “Soft Computing,” funded by the Arad County Council

General Co-Chair of ten editions of the International Workshop SOFA (2005, 2007, 2009, 2010, 2012, 2014, 2016, 2018, 2020, 2022)

Head of the Chess Section of the University Sports Club “Aurel Vlaicu” Arad (2000–2010)

Organization and coordination of nine editions (2001–2009) of the International Chess Open “Memorial Ivan Halic,” Arad

Vice-President of AGIR Arad Branch since 2005; President of AGIR Arad Branch since 2017

President of the Automation and Instrumentation Association of Romania, Arad Branch (since 2005)

President of the SRAIT Arad Branch – Romanian Society of Automation and Technical Informatics (since 2010)

Founding member of the Romanian Association for Artificial Intelligence (AAIR)

Member of the European Society for Fuzzy Logic and Technology (EUSFLAT), responsible for member recruitment (2013–2014) □ Vice-President (Awards Chair) of IFSA – International Fuzzy Systems Association (2013–2015)

Secretary of the Governing Council of the Forum for Interdisciplinary Mathematics, India (2013–2017)

TECHNICAL SKILLS

AND COMPETENCES

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

WINDOWS XP, MICROSOFT OFFICE, INTERNET, EXCEL, C, MATLAB, LABVIEW

Technological background in machine tools and railway coach engineering;

Strong expertise in hardware (electronic equipment, sensors, etc.) and software related to automatic control and measurement systems.

**Papers and books:**

- 15 international books and book chapters

- 5 national books and book chapters
- Over 150 edited or authored books published by Springer, Elsevier, and CRC Press
- Over 100 invited conference talks in India, China, Taiwan, Japan, Singapore, USA, Hungary, Pakistan, Morocco, Iran, Azerbaijan, Czech Republic, Tunisia, Lebanon, France, Qatar, Portugal, and Romania
- Over 400 scientific papers published nationally and internationally in journals and conference proceedings, of which:
  - Over 290 indexed in the ISI Thomson database
  - 525 indexed in the SCOPUS database (H-index = 33)
  - Google Scholar H-index = 45
- **Identifiers:**
  - Scopus Author ID: 9279071000
  - Loop profile: 116182
  - ResearcherID: F-4525-2010
  - ResearchGate: 623 publications, <https://www.researchgate.net/profile/Valentina-Balas>
- **Research Projects**
  - Over 50 projects carried out at CCSIT Railway coaches Arad as Project Director (electrical part)
  - Over 60 travel grants
  - 4 projects awarded through international competition and 43 projects awarded through national competition as Project Leader
  - Team member in 3 international grants
  - Team member in 6 national grants
- **Editorial and Reviewing Activity**
  - Editor-in-Chief of 4 journals indexed in international databases
  - Editorial Board Member of 9 ISI journals and 28 indexed (BDI) journals
  - Reviewer for over 40 ISI 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)

Driving License Category B (since 1974)

## ADDITIONAL INFORMATION

1. **PROF.DR.ING. MIRCEA A. CIUGUDEAN**, POLITEHNICA UNIVERSITY OF TIMISOARA, ROMANIA  
TEL. 0040-722486853  
E-MAIL: [MACIUGUDEAN@YAHOO.COM](mailto:MACIUGUDEAN@YAHOO.COM)

2. **ACAD. JANUSZ KACPRZYK, PH.D., D.SC., DR H.C. MULT.**

FELLOW OF IEEE (LIFE), IET, IFSA, EURAI, IFIP, AAIA,  
AIIA, I2CICC, SMIA

FULL MEMBER, POLISH ACADEMY OF SCIENCES

MEMBER, ACADEMIA EUROPAEA

MEMBER, EUROPEAN ACADEMY OF SCIENCES AND ARTS MEMBER, EUROPEAN ACADEMY OF SCIENCES

MEMBER, INTERNATIONAL ACADEMY FOR SYSTEMS AND CYBERNETICS  
SCIENCES (IASCYS)

MEMBER, NATIONAL ACADEMY OF ARTIFICIAL INTELLIGENCE FOREIGN MEMBER, BULGARIAN ACADEMY  
OF SCIENCES FOREIGN MEMBER, SPANISH ROYAL ACADEMY OF ECONOMIC  
AND FINANCIAL SCIENCES (RACEF)

FOREIGN MEMBER, FINNISH SOCIETY OF SCIENCES AND LETTERS FOREIGN MEMBER, ROYAL FLEMISH  
ACADEMY OF BELGIUM FOR

SCIENCE AND THE ARTS (KVAB)

FOREIGN MEMBER, RUSSIAN ACADEMY OF SCIENCES FOREIGN MEMBER, NATIONAL ACADEMY OF  
SCIENCES OF UKRAINE FOREIGN MEMBER, LITHUANIAN ACADEMY OF SCIENCES FOREIGN MEMBER,  
ACCADEMIA NAZIONALE DI SCIENZE, LETTERE E ARTI DI PALERMO

PRESIDENT, POLISH OPERATIONAL AND SYSTEMS  
RESEARCH SOCIETY

PAST PRESIDENT OF IFSA (INTERNATIONAL

FUZZY SYSTEMS ASSOCIATION)

SYSTEMS RESEARCH INSTITUTE

POLISH ACADEMY OF SCIENCES

UL. NEWELSKA 6

01-447 WARSAW

POLAND

E-MAIL: [JANUSZ.KACPRZYK@IBSPAN.WAW.PL](mailto:JANUSZ.KACPRZYK@IBSPAN.WAW.PL)

3. **Prof. Lakhmi C. Jain,**

Founder KES International | <http://www.kesinternational.org/organisation.php>

Visiting Professor | Bournemouth University, UK,

Adjunct Professor | University of Canberra, Australia,

E-MAIL: [Jainlc2002@yahoo.co.uk](mailto:Jainlc2002@yahoo.co.uk)

Arad, January 30, 2026

Prof. Habil. Dr. Eng. Valentina E. Balas

