



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **POP, Horia Florin**

Address(es) Cluj-Napoca, Romania

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Fax(es) +40.264.591.906

E-mail hfpop@cs.ubbcluj.ro, hfpop@hfpop.ro

Nationality Romania

Date of birth April 20, 1968

Gender Male

Desired employment **Professor of Computer Science, Babeş-Bolyai University**

Occupational field

Work experience

Dates Since October 2006

Occupation or position held PhD supervisor

Main activities and responsibilities Research activity

Name and address of employer Babeş-Bolyai University, Faculty of Mathematics and Computer Science

Type of business or sector Higher education

Dates Since February 2004

Occupation or position held Profesor universitar

Main activities and responsibilities Didactic and research activity

Name and address of employer Babeş-Bolyai University, Faculty of Mathematics and Computer Science

Type of business or sector Higher education

Dates February 1998 – February 2004

Occupation or position held Associate professor

Main activities and responsibilities Didactic and research activity

Name and address of employer Babeş-Bolyai University, Faculty of Mathematics and Computer Science

Type of business or sector Higher education

Dates October 1996 - February 1998

Occupation or position held Lecturer professor

Main activities and responsibilities Didactic and research activity

Name and address of employer Babeş-Bolyai University, Faculty of Mathematics and Computer Science

Type of business or sector Higher education

Dates October 1994 – September 1996

Occupation or position held Asistant professor

Main activities and responsibilities Didactic and research activity

Name and address of employer Babeş-Bolyai University, Faculty of Mathematics and Computer Science

Type of business or sector Higher education

Dates October 1991 – September 1994

Occupation or position held Teaching assistant

Main activities and responsibilities Didactic and research activity

Name and address of employer Babeş-Bolyai University, Faculty of Mathematics and Computer Science

Type of business or sector Higher education

Dates August 1991 – September 1991

Occupation or position held Computer scientist

Main activities and responsibilities Programs development and computer science research

Name and address of employer History Museum of Transylvania

Type of business or sector Computer Science

Education and training

Dates January 1992 – November 1995

Title of qualification awarded Doctor in Mathematics, specialization Computer Science

Principal subjects/occupational skills covered Doctoral studies in artificial intelligence and soft computing

Name and type of organisation providing education and training Babeş-Bolyai University, Faculty of Mathematics and Computer Science
Public institution

Level in national or international classification Doctoral studies
ISECD Level 6

Dates September 1987 – July 1991

Title of qualification awarded B.Sc. Degree Diploma

Principal subjects/occupational skills covered Specialization Computer Science, lectures in the fields of Mathematics and Computer Science

Name and type of organisation providing education and training Babeş-Bolyai University, Faculty of Mathematics and Computer Science
Public institution

Level in national or international classification Studii de licență
ISECD Level 5

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment

European level ()*

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user	C2	Experienced user
C2	Experienced user	C2	Experienced user	B2	Independent user	B2	Independent user	B2	Independent user

(*) [Common European Framework of Reference for Languages](http://www.cedefop.europa.eu/en/files/questdocument/2008/08/10/20082010)

Social skills and competences Capacity to adapt to multicultural environments, obtained via academic mobilities abroad

Organisational skills and competences	<p>During 2004-2012 I was Vice-Dean of the Faculty of Mathematics and Computer Science</p> <p>During 2012-2016 I was the President of the UBB Senate Committee on Curriculum</p> <p>Since 2016 I have been the Vice-President of the UBB Senate</p> <p>Since 2012 I have been Director of the ITC Division of UBB</p> <p>During 1999-2000 I coordinated the team of translators for the translation from English to Romanian of a specialty volume</p>						
Technical skills and competences							
Computer skills and competences	ECDL Examiner test, 2004						
Artistic skills and competences							
Other skills and competences	Translator license English-Romanian in Mathematics, Computer Science and Economical Sciences (1991)						
Driving licence	Category B						
Additional information	<table> <tr> <td>Hirsh index (ISI)</td> <td>11</td> </tr> <tr> <td>Hirsch index (Scopus)</td> <td>12</td> </tr> <tr> <td>Hirsch index (Google Scholar)</td> <td>13</td> </tr> </table> <p>For other information please access the personal web site, at http://hfpop.ro .</p>	Hirsh index (ISI)	11	Hirsch index (Scopus)	12	Hirsch index (Google Scholar)	13
Hirsh index (ISI)	11						
Hirsch index (Scopus)	12						
Hirsch index (Google Scholar)	13						

Curriculum Vitae

Dr. Horia F. POP, Professor

General Data

April 20, 1968 Born in Cluj-Napoca, Romania; son of Florin POP, Retired Professor, Technical University, Cluj-Napoca and Liana POP, Retired Associate Professor, Technical University, Cluj-Napoca

Office address Babeş-Bolyai University, Faculty of Mathematics and Computer Science, Department of Computer Science, Chair of Programming Languages and Methods, 1, M. Kogălniceanu St., RO-400084 Cluj-Napoca, Romania, Phone: +40.264.405.327, Fax: +40.264.591.906, E-mail address: hfpop@cs.ubbcluj.ro, hfpop@hfpop.ro, World Wide Web: <http://hfpop.ro>

Knowledge of international languages

Romanian Speaks, reads and writes fluently

English Speaks, reads and writes fluently

French Speaks, reads and writes fluently

Spanish Reads, at satisfactory level

German Reads, at satisfactory level

Education

1992–1995 Ph.D. student at the Department of Computer Science, Babeş-Bolyai University, Cluj-Napoca. Ph.D. Thesis “Intelligent Systems in Classification Problems”. Doctor in Mathematics, speciality Computer Science, since November 3, 1995

1987–1991 Student at the Department of Computer Science, Babeş-Bolyai University, Cluj-Napoca. Average final grade: 9.86 (1–10 scale). Bachelor’s Degree with maximum grade: 10 (Magna Cum Laudae), with the B.Sc. Thesis “Adaptive Prototypes in Fuzzy Clustering”

1986–1987 Military service

1978–1986 Secondary and high school at the “Emil Racoviță” High School of Mathematics and Physics, Cluj-Napoca

1974–1978 Elementary school at the Pedagogical School, Cluj-Napoca

Other Distinctions

June 2003 Tester Licence for ECLD tests (European Computer Driver Licence)

October 1990 The Translation License from the Ministry of Culture of Romania, for translations from English into Romanian, in the fields of Mathematics-Computer Science-Cybernetics and Economical Sciences, with the grades of 9.00 and 9.50 respectively.

Working Positions

July 6, 2009 – to date Ph.D. advisor at the Faculty of Computer Science, Eotvos-Lorand University, Budapest

October 1, 2006 – to date Ph.D. advisor at the Department of Computer Science, Faculty of Mathematics and Computer Science, Babeş-Bolyai University

February 23, 2004 – to date Professor at the Department of Computer Science, Faculty of Mathematics and Computer Science, Babeş-Bolyai University

February 23, 1998 – February 22, 2004 Associate Professor at the Department of Computer Science, Faculty of Mathematics and Computer Science, Babeş-Bolyai University

October 1, 1996 – February 22, 1998 Lecturer Professor at the Department of Computer Science, Faculty of Mathematics and Computer Science, Babeş-Bolyai University

October 1, 1994 – September 30, 1996 Assistant Professor at the Department of Computer Science, Faculty of Mathematics and Computer Science, Babeş-Bolyai University

October 1, 1991 – September 30, 1994 Teaching Assistant at the Department of Computer Science, Faculty of Mathematics and Computer Science, Babeş-Bolyai University

August 15, 1991 – September 30, 1991 Computer Scientist at the Computer Center of the History Museum of Transylvania, Cluj-Napoca

Complementary Positions

Since 2016 Vice-President of the Babeş-Bolyai University Senate

Since 2012 Director of the ITC Division of the Babeş-Bolyai University

2012–2016 President of the Babeş-Bolyai University Senate Committee on Curriculum

2004–2012 Vice-Dean of the Faculty of Mathematics and Computer Science, Babeş-Bolyai University

Since May 1, 2001 Executive Editor at the journal *Studia Universitatis Babeş-Bolyai, Series Informatica*

Since October 1, 1998 Expert of the National Council of the Academic Scientific Research

October 1, 1997 – September 30, 1998 Member of the Babeş-Bolyai University Organizing Commission and Professoral Council of the Faculty of Open (Inter-Disciplinary) Studies

February 1, 1997 – February 1, 2004 Member of the Babeş-Bolyai University Senate Commission for University Communication Network and Internet

March 15, 1996 – October 1, 1996 Editorial Assistant at the journal *Studia Universitatis Babeş-Bolyai, Series Informatica*

October 1, 1995 – September 30, 1999 Member of the Babeş-Bolyai University Communication Center

April 15, 1993 – February 1, 1997 Unix Network Administrator at the Department of Computer Science, Faculty of Mathematics and Computer Science, Babeş-Bolyai University

Scientific Organizations Memberships

Since January 1, 2007 Member of AMS (American Mathematical Society)

Since October 1, 2006 Member of SSMR (Romanian Society of Mathematical Sciences)

Since January 30, 1997 Member of BISC (Berkeley Initiative in Soft Computing)

November 15, 1995 – October 30, 1998 Member of ACM (Association of Computing Machinery)

Editorial Activity

Since September 1, 2011 Scientific reviewer of the “The Arabian Journal for Science and Engineering”

Since September 10, 2010 Scientific reviewer of the Journal “Information Systems”, published by Elsevier Publishers

Since April 30, 2009 Scientific reviewer at the international journal “Advances of Fuzzy Systems”, published by Hindawey Publishers and indexed by Scopus

July 2–4, 2009 Co-editor of KEPT 2009 Conference Proceedings, Short Papers, *Studia Universitatis Babeş-Bolyai, Series Informatica*, Special Issue, 2009, 370 pages

- September 2009** Co-editor of KEPT 2009 Conference Proceedings, Selected Papers, Cluj University Press, 2009, 400 pages
- Since October 8, 2007** Scientific reviewer at the international journal “Fuzzy Sets and Systems”, published by Elsevier Publishers
- Since July 11, 2007** Scientific reviewer at “Computational Statistics and Data Analysis”, published by Elsevier Publishers
- June 6–8, 2007** Co-editor of KEPT 2007 Conference Proceedings, Cluj University Press, 2007, 400 pages
- Since April 20, 2005** Scientific reviewer at “Mathematical Reviews”, a division of the American Mathematical Society
- Since September 12, 2002** Scientific reviewer at “Journal of Chemical Information and Computer Sciences”, published by the American Chemical Society
- Since October 12, 2001** Scientific reviewer at “European Journal of Operational Research”, published by Elsevier Publishers
- January, 1999 – April, 2000** Coordinator of the translation team and coordinator of L^AT_EX system usage for translating into Romanian and typesetting the book THOMAS H. CORMEN, CHARLES E. LEISERSON, RONALD L. RIVEST, *Introduction to Algorithms (Romanian)*, Computer Libris Agora Press, Cluj-Napoca, Romania, 2000, ISBN 973-97534-3-4, 881 pages
- Since June 1, 1998** Scientific reviewer at “EnvironMetrics”, an international journal published by John Wiley and Sons

Didactical Activity

Regular Didactical Activity

During his activity at the Department of Computer Science of the Babeş-Bolyai University he has taught the following courses:

- “Computer Architecture and Operating Systems”, course, seminars and practical works for the I-st year of study for short-term students
- “Mathematical Foundations of Computer Science”, course and seminar for the I-st year of study for full-term students
- “Data Structures”, course and seminar for the I-st year of study for full-term students
- “Fundamentals of Programming”, course, seminars and practical works for the I-st year of study for full-term students
- “Computer Architecture and Operating Systems”, practical works for the II-nd year of study for full-term students
- “Functional and Logic Programming”, course and practical works for the II-nd year of study for full-term students
- “Artificial Intelligence”, course and practical works for the III-rd year of study for full-term students
- “Windows Applications Programming”, course and practical works for the III-rd year of study for full-term students
- “Constraints Satisfactipn Programming”, course and practical works for the II-nd year of study for full-term students
- “Internet Programming”, course, seminars and practical works for master students
- “Parallel Logic Programming”, course, seminars and practical works for master students
- “Intelligent Agents”, course and seminars for master students
- “Advanced Metods in Data Analysis”, course and seminars for master students
- “Simulation Languages”, course and practical works for master students
- “Declarative Programming in Machine Learning”, course and seminars for master students

Other Didactical Participations

- 1999** The course “Communication in Internet”, at the postgraduate course “The Management of Electrical Installations at Consumers” (Romanian), organized by the Technical University of Cluj-Napoca, Romania
- 1997** The course “Internet and the access to information”, at the postgraduate course “The Management of Lighting Installations” (Romanian), organized by the Technical University of Cluj-Napoca, Romania

Scientific Activity

Main interest topics:

- *Scientific Data Analysis* (Fuzzy Sets, Soft Computing, Artificial Intelligence),
- *Programming Methodologies* (Windows and Internet Programming, Functional and Logic Programming).

Participations at Romanian Programs

Coordination of Romanian Programs

2012 – 2016 Principal investigator of the research project “System for management and intelligent analysis of medical data in order to improve response strategies for acute and chronic diseases”, financially supported by the Romanian National Research Council under no. PN-II-PT-PCCA-2011-3.2-0917

2007 – 2010 Principal investigator of the research project “Robust Models and Methods for Data Processing with Applications in Natural Sciences”, financially supported by the Romanian National University Research Council under no. IDEI 550/2007

2005 – 2008 Project coordinator from the Faculty of Mathematics and Computer Science, BBU Cluj, as participant to the excellency research grant no. PC-D11-PT00-147 “Novel Techniques in Nuclear Magnetic Resonance on Solids: Methodological Developments and Applications”. The research project is coordinated by the Research Institute for Isotopical and Molecular Technologies, Cluj-Napoca

Participations at Romanian Grants

2007–2010 CRONIS – Decision system based on multiagent techniques for the generation, optimization and management of the national registry of chronic non-transmissible diseases. Partners: Institute for Research, Design and Production of Automatisation Equipment and Installations Bucharest, Cluj Branch, Ion Chiricuța Oncological Institute of Cluj, Iuliu Hațieganu University of Medicine and Pharmacy of Cluj and Babes-Bolyai University of Cluj. Grant PNCDI II Partnerships No. 11-003/2007.

2006–2009 Contributions in the domain of multiagent systems using methods of cognitive psychology, interface agents and aspect oriented programming paradigm. Partners: Chair of Clinical Psychology and Psychotherapy, Chair of Psychology and Chair of Programming Languages and Methods from BBU. Grant 307248/2006, financed by the Babeş-Bolyai University.

2005–2007 Systems for collaborative decision aid in academic environments – case study BBU. Grant TP 2/2005, financed by the Babeş-Bolyai University. Research grant coordinated by Prof. Ș. Nițchi.

2004–2007 Evolutionary computing: new paradigms, techniques and classes of evolutionary algorithms. Grant 23/322/2004, 23/322/2005, Contract between the Babeş-Bolyai University, Cluj-Napoca and the Ministry of Education and Research. Research grant coordinated by Prof. D. Dumitrescu.

2001–2003 New methods of evolutionary computation. Applications in machine learning, evolutionary optimisation, scientific data analysis and natural language processing. Grant 34971/2001, 34971/2002, 34971/2003, Contract between the Babeş-Bolyai University, Cluj-Napoca and the Ministry of Education and Research. Research grant coordinated by Prof. D. Dumitrescu.

1998 Modeling and implementation of a multidisciplinary algorithms database to create a high performance computing center (Romanian). Grant 193/1998 Contract between the “Babeş-Bolyai” University, Cluj-Napoca and the National Council of University Scientific Research, Ministry of Research and Technology. Research grant coordinated by Prof. Militon Frențiu.

1995–1997 Study for building a university computer network. Useful algorithms in the functioning of the university services network (Romanian). Grant 944/1996, 310/1997, Contract between the “Babeş-Bolyai” University, Cluj-Napoca and the Ministry of Education. Research grant coordinated by Prof. Militon Frențiu.

1994 Computer program for dimensioning the lighting installations of social, cultural and sports buildings (Romanian). Contract 115/1994 between the Buildings Technical University, Bucharest and the Ministry of Science and Technology, External collaborator. Research grant coordinated by Prof. Cornel Bianchi.

- 1993–1997** Elaboration of models and algorithms for applications from different domains. New performant algorithms concerning problems of classification, simulation and reorganization of data (Romanian). Contract 1087B/1993, 3010/1994, B10/Grant 244/1995, Grant 943/1996, Grant 309/1997, Contract between the “Babeş-Bolyai” University, Cluj-Napoca and the Ministry of Education and Science Research grant coordinated by Prof. Militon Frentiu and Grigor Moldovan.
- 1992** Electrical energy distribution networks for the consumer (Romanian), Pop, F., Beu, D., and Pop, H. F. Contract No. 92F/1992 between the Technical University of Cluj-Napoca and the Ministry of Education and Science. 20 percent of the value of the contract are for the Department of Computer Science, “Babeş-Bolyai” University, Cluj-Napoca, representing some computer programs. Research grant coordinated by Prof. Florin Pop.
- 1988** Energetical balance sheet for “Mucart” Co. (Romanian), Pop, F., Filip, A., Moca, M., and Pop, H. F. Contract No. 96/1988 between the Technical University of Cluj-Napoca and “Mucart” Co. Research grant coordinated by Prof. Florin Pop.

Participations at Schools and Seminars

- October 6–10, 1998** Presentation “ActiveX” at the Advanced Educational Technologies Intensive Courses organized under the Tempus S-JEP 12518-97 program, with the participation of the “Petru Maior” University, Târgu Mures, Babeş-Bolyai University, Cluj-Napoca, Technical University of Cluj-Napoca, National College University of Ireland, Galway and National Technical University of Athens, Greece
- July 20–25, 1997** Advanced Summer School “Parallel and Distributed Computer Systems PARADIS ’97”, organized in Mangalia (Romania) by the “Politehnica” University of Bucharest, the Research Institute for Informatics Bucharest, the University of Marseille, and Glossy SA (Global Services and Systems) Bucharest, under the sponsorship of the Service Culturel of the Embassy of France in Romania, the Romanian National Commission for Informatics and the Romanian National Tempus Office
- August 1–5, 1994** Summer School “Computer Assisted Learning in the Field of Artificial Intelligence”, organized in Bucharest by the Romanian Academy, Department of Science and Technology of Information, Center of Advanced Research in Automatic Learning, Natural Language Processing and Conceptual Modelling and the Instituto “Dalle Molle” from Lugano, Switzerland

Member of organizing and program committees

- May 22, 2010** Member of the Scientific Committee of the 26-th National Conference on Didactics of Mathematics, organised by the Romanian Mathematical Society and the Faculty of Mathematics and Computer Science, Babeş-Bolyai University, in Cavnic, Romania
- May 23, 2009** Member of the Scientific Committee of the 25-th National Conference on Didactics of Mathematics, organised by the Romanian Mathematical Society and the Faculty of Mathematics and Computer Science, Babeş-Bolyai University, in Turda, Romania
- April 19, 2008** Member of the Scientific Committee of the 24-th National Conference on Didactics of Mathematics, organised by the Romanian Mathematical Society and the Faculty of Mathematics and Computer Science, Babeş-Bolyai University

International Participations

Coordination of International Programs

- 2005** Coordinator of the Babes-Bolyai University participation in the HEAT Project (“Higher-Education Applied Tools”), submitted to CCE for financial support as a FP6 STRPS project. The general coordinator of the project is prof. Laurent Flory, Université Claude Bernard, Lyon
- 2000 – 2003** Coordinator, together with Prof. Thomas R. Cundari from the Faculty of Chemistry, University of Memphis, and Prof. Costel Sârbu, from the Faculty of Chemistry, Babeş-Bolyai University, of a research project on “US-Romanian Research on Soft Computing Approaches to Modeling Metal Chemistry for Catalysis Applications”, financed by the National Science Foundation, United States, under No. 0077531
- 1998 – 2001** Coordinator of the Babeş-Bolyai University participation in the H-66 CEEPUS Network, under the coordination of Dr. Jozsef Szabo, szabo@math.klte.hu, “Kossuth Lajos” University, Debrecen, Hungary, and with the participation of the Technical University of Wiena, Austria and “Safarik” Technical University of Kosice, Slovakia

1998 – 2000 Coordinator of the Babeş-Bolyai University participation in the project Tempus Phare Compact Measures Project “Lighting Engineering Center”, registered under No. CME-03551-97. The general coordinator of the project is Dr. Florin POP, from the Technical University of Cluj-Napoca, Romania

1995 – 1996 Coordinator of the Babeş-Bolyai University participation in the EUMEDNET Project - proposal phase (A European and Mediterranean Trade Support Network). The project general coordinator is Dr. Juan Carlos MARTINEZ COLL, from the Universidad de Malaga, Spain

Participations at International Programs

1999 – 2001 Member of the project DAWAI - research project on the time-adaptive processing of natural language, supported through a grant of the "Deutsche Forschungsgemeinschaft", developed at the Natural Languages Division, Department of Computer Science, University of Hamburg

1998 – 2000 Participation at the Tempus-Phare CME - Compact Measures Project - CME-03551-97, coordinated by Prof. florin Pop, Technical University of Cluj-Napoca

1997 – 1999 Participation at the Tempus SJEP Project 11168 / 1996, “Restructuring the (Re)Training of School Teachers in Computer Science”

1997 – 1999 Participation at the Tempus SJEP Project 11219 / 1996 “Support for Chemistry College by Computer Aided Learning”

1993 Participation, together with Florin Pop, Dorin Beu and Mircea Moca from the Technical University of Cluj-Napoca, at the research grant “Characterization of glazings materials for daylighting applications”, under Contract JOU2-CT-0052, Coordinator dr. Marc Fontoynt, ENTPE, France.

Member of organizing and program committees

November, 2017 Member in the Program Committee of Informatics 2017 - 14th International Scientific Conference on Informatics, organized by Technical University of Kosice, Slovakia

September 20–23, 2017 Member in the Program Committee of BCI 2017 - 8th Balkan Conference on Informatics, organized by University Sts Cyril and Methodius, Skopje, Makedonia (<http://www.bci-conferences.org>)

September 7–9, 2017 Member in the Scientific Committee of the 6th International Conference on Mathematics and Informatics, Târgu Mureş, Romania, organized by the Sapientia Hungarian University of Transylvania

July 3–5, 2017 Member in the Program Committee of INISTA 2017 - 2017 IEEE International Conference on Innovations in Intelligent SysTems and Applications, organized by Gdynia Maritime University in Gdynia, Poland (<http://www.inista.org>)

May 30 – June 2, 2017 Member in the Program Committee of BIDAS 2017 - 13th International Conference Beyond Databases, Architectures and Structures, organized by the Silesian University of Technology in Ustron, Poland

September 24–26, 2016 Member in the Program Committee of SYNASC 2016 - 18th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, organized by West University of Timisoara, Romania (<http://synasc.ro/2016>)

September 8–10, 2016 Member in the Program Committee of 2016 IEEE International Conference on Intelligent Computer Communication and Processing, ICCP 2016, organized by the Department of Computer Science, Technical University of Cluj-Napoca, Romania (<http://www.iccp.ro/iccp2016>)

September 7–9, 2016 Member in the Program Committee of AIMSACON 2016 - The 17th International Conference on Artificial Intelligence: Methodology, Systems, Applications, Varna, Bulgaria (<http://www.aimsaconference.org>)

August 2–5, 2016 Member in the Program Committee of INISTA 2016 - 2016 International Symposium on Innovations in Intelligent SysTems and Applications, organized by University of Craiova, in Sinaia, Romania (<http://www.inista.org>)

May 20–22, 2016 Member in the Steering Committee and Scientific Committee of the 11th Joint Conference on Mathematics and Computer Science, jointly organized by Babes-Bolyai University, Eotvos Lorand University with the support of other Central European universities, Eger, Hungary (<http://macs.elte.hu>)

September 21–24, 2015 Member in the Program Committee of the SYNASC 2015 - 177th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, organized by West University of Timisoara, Romania

- September 5–8, 2015** Member in the Program Committee at 2015 IEEE International Conference on Intelligent Computer Communication and Processing, ICCP 2015, organized by the Department of Computer Science, Technical University of Cluj-Napoca, Romania
- September 2–4, 2015** Member in the Scientific Committee of the 5th International Conference on Mathematics and Informatics, Târgu Mureş, Romania, organized by the Sapientia Hungarian University of Transylvania
- September 2–4, 2015** Member in the Program Committee of the BCI 2015 - 7th Balkan Conference on Informatics, organized by University of Craiova, Romania
- May 21–25, 2014** Member in the Steering Committee and Scientific Committee of the 10th Joint Conference on Mathematics and Computer Science, jointly organized by Babes-Bolyai University, Eotvos Lorand University with the support of other Central European universities, Cluj, Romania
- July 8–13, 2013** Member in the Organizing Committee of the Domain Specific Languages summer school, jointly organized by Babes-Bolyai University and Eotvos Lorand University, Cluj, Romania
- July 2–4, 2013** Co-chair of the Organizing and Program Committees at the International Conference on Knowledge Engineering Principles and Techniques, KEPT'2013, organized by the Department of Computer Science, Babes-Bolyai University, Cluj-Napoca, Romania
- February 9–12, 2012** Member of the Steering Committee and Scientific Committee of the 9th Joint Conference on Mathematics and Computer Science, organized in Budapest by Eötvös Lorand University in Budapest and Babeş-Bolyai University in Cluj
- October 2011** Member in the Scientific Committee of UICS 2011, Târgu Mures
- September 2011** Member in the Scientific Committee of MedDecSup 2011, Târgu Mureş.
- September, 2011** Member in the Program Committee at 2011 IEEE International Conference on Intelligent Computer Communication and Processing, ICCP 2011, organized by the Department of Computer Science, Technical University of Cluj-Napoca, Romania
- August 29 – September 3, 2011** Local chair and member in the Organizing Committee of the EuroLAN 2011 Summer School on “Natural Language Processing goes industrial”, organised by The Romanian Academy, “Alexandru Ioan Cuza” University of Iaşi and Babeş-Bolyai University, Cluj-Napoca
- August 22–27, 2011** Member in the Organizing Committee of 10th International Symposium on Generalized Convexity and Monotonicity, Hosted by Babeş-Bolyai University
- July 4–6, 2011** Co-chair of the Organizing Committee and Program Committee at the International Conference on Knowledge Engineering Principles and Techniques, KEPT'2011, organized by the Department of Computer Science, Babeş-Bolyai University, Cluj-Napoca, Romania
- September, 2010** Member in the Program Committee at 2010 IEEE International Conference on Intelligent Computer Communication and Processing, ICCP 2010, organized by the Department of Computer Science, Technical University of Cluj-Napoca, Romania
- July 14–17, 2010** Member of the Steering Committee and Scientific Committee of the 8th Joint Conference on Mathematics and Computer Science, organized in Komarno by Eötvös Lorand University in Budapest and Babeş-Bolyai University in Cluj
- July 7-9, 2010** Member in Program Committee of the Second International Conference on 'Networked Digital Technologies (NDT 2010), Charles University, Prague, Czech Republic, <http://www.dirf.org/ndt2010>
- September, 2009** Member in the Program Committee at 2009 IEEE International Conference on Intelligent Computer Communication and Processing, ICCP 2009, organized by the Department of Computer Science, Technical University of Cluj-Napoca, Romania
- July 29-31, 2009** First International Conference on 'Networked Digital Technologies (NDT 2009), Ostrava, Czech Republic, <http://argarchive.vsb.cz/ndt2009>
- July 2–4, 2009** Co-chair of the Organizing Committee and Program Committee at the International Conference on Knowledge Engineering Principles and Techniques, KEPT'2009, organized by the Department of Computer Science, Babeş-Bolyai University, Cluj-Napoca, Romania
- August 28–30, 2008** Member in the Program Committee at 2008 IEEE International Conference on Intelligent Computer Communication and Processing, ICCP 2008, organized by the Department of Computer Science, Technical University of Cluj-Napoca, Romania

- July 3–6, 2008** Member of the Organizing Committee of the 7th Joint Conference on Mathematics and Computer Science, organized in Cluj by Eötvös Lorand University in Budapest and Babeş-Bolyai University in Cluj
- November 28–30, 2007** Member in the Program Committee of the International Conference on Advances in Computer Vision and Information Technology ACVIT-07, organized by the Department of Computer Science and Information Technology, Dr. Babasaheb Ambedkar Marathwada University Aurangabad (MS), India
- September 6–8, 2007** Member in the Program Committee at IEEE 3rd International Conference on Intelligent Computer Communication and Processing, ICCP 2007, organized by the Department of Computer Science, Technical University of Cluj-Napoca, Romania
- June 23–30, 2007** Member of the Organizing Committee at the Second Central European Functional Programming School, CEFPP'2007, organized by the Department of Computer Science, Babeş-Bolyai University, Cluj-Napoca, Romania
- June 6–8, 2007** Co-chair of the Organizing and Program Committees at the First International Conference on Knowledge Engineering Principles and Techniques, KEPT'2007, organized by the Department of Computer Science, Babeş-Bolyai University, Cluj-Napoca, Romania
- September 1–2, 2006** Member in the Program Committee and chair of session A1 “Artificial Intelligence and Agents” at IEEE 2nd International Conference on Intelligent Computer Communication and Processing, ICCP 2006, organized by the Department of Computer Science, Technical University of Cluj-Napoca, Romania
- July 25 – August 4, 2005** Member in the Organizing Committee at the EuroLAN 2005 Summer School on “The Multilingual Web: Resources, Technologies and Prospects”, organized by The Romanian Academy, “Alexandru Ioan Cuza” University of Iasi and Babeş-Bolyai University Cluj-Napoca
- May 20–22, 2005** Chairman at the 4-th International Conference RoEduNet Romania, Sovata, Târgu-Mureş, Romania, organized by the Romanian Education Network RoEduNet and the “Petru Maior” University, Târgu-Mureş

Research Visits

- July 6–17, 2015** Collaboration and documentation visit, Tongji University, Shanghai and Shanghai Jiao Tong University, Shanghai, China, in the framework of the research program “System for management and intelligent analysis of medical data in order to improve response strategies for acute and chronic diseases”, financed by UEFISCDI-CNDI
- July 13–27, 2014** Collaboration and documentation visit, INSA Rouen, France and University Hospital Bruxelles, Belgium, in the framework of the research program “System for management and intelligent analysis of medical data in order to improve response strategies for acute and chronic diseases”, financed by UEFISCDI-CNDI
- June 19–26, 2013** Research visit, Dicle University, Diyarbakir, Turkey, in the framework of the research program “System for management and intelligent analysis of medical data in order to improve response strategies for acute and chronic diseases”, financed by UEFISCDI-CNDI
- May 21–30, 2009** Invited Professor, 3rd Central European Functional Programming School, CEFPP 2009, Eotvos Lorand University, Budapest and Selye Janos University, Komarno, Slovakia
- October 4–11, 2008** Research visit at the Swiss Federal Technical University of Zurich, Switzerland, in the framework of the research grant supported by the Romanian National University Research Council under no. IDEI 550/2007
- June 17 – July 15, 2008** Research visit at the University of Liverpool and University of Edinburgh, United Kingdom, in the framework of the research grant supported by the Romanian National University Research Council under no. IDEI 550/2007
- January 1 – May 16, 2006** Visiting Professor at the Department of Computer Science, Wayne State University, United States, in the framework of the Academic Exchange Agreement between the two universities
- June 15 – August 15, 2002** Research visit at the Department of Chemistry, University of Memphis, United States, in the framework of the joint research program “US-Romanian Research on Soft Computing Approaches to Modeling Metal Chemistry for Catalysis Applications”
- July 1 – August 31, 2001** Research visit at the Department of Chemistry, University of Memphis, United States, in the framework of the joint research program “US-Romanian Research on Soft Computing Approaches to Modeling Metal Chemistry for Catalysis Applications”
- October 1, 1999 – April 30, 2001** Research scientist at the Natural Language Division, Department of Computer Science, University of Hamburg, as member of the project DAWAI – research project on the time-adaptive processing of natural language, supported through a grant of the German Science Foundation

- August 26 – September 10, 1999** Research visit at the Lighting Laboratory of the Helsinki University of Technology, in the framework of the Tempus Phare Project CME-03551-1997
- June, 6 – July 5, 1999** Research visit at the Natural Language Division, Department of Computer Science, University of Hamburg, in the framework of the Tempus SJEP Project 11168 / 1996, “Restructuring the (Re)Training of School Teachers in Computer Science”, with the task to produce two reports: TR-HH-6-99 – “Developing Software: Programming for What?” and TR-HH-7-99 – “A Short Introduction to SunOS”
- April 20 – July 15, 1998** Didactical visit at the CTI Centre for Chemistry / University of Liverpool, in the framework of the Tempus SJEP Project 11219 / 1996 “Support for Chemistry College by Computer Aided Learning”, with the specific task to develop a didactical demonstrative software package for Analytical Chemistry
- September 1, 1996 – April 1, 1997** Study visit at Ernest Orlando Lawrence Berkeley National Laboratory and different universities in California, United States
- December 1, 1995 – March 1, 1996** Study visit at the Universitat Politècnica de Catalunya, in Barcelona and the Universidad de Valladolid, in Spain
- March 17 – April 15, 1994** Study visit at the University of Liverpool, under a ROMLISS program having the financial support of the British Council and the Soros Foundation for an Open Society; there he initiated an Academic Exchange Agreement between the Babeş-Bolyai University and the University of Liverpool
- October 9, 1992 – January 31, 1993** Visit at the University of Geneva in Switzerland, with a scholarship of the Rector of the University of Geneva, for training in the field of Sun computer networks, as a result of the co-operation relationships between the two universities

Conferences and Seminars

- July 9, 2015** Invited lecture on "Fuzzy Data Analysis" at the graduate research seminar, School of Transportation Engineering, Tongji University, Shanghai, China
- June 17-18, 2014** Invited lecture on "Research Topics in Computer Science at BBU. Case study: Applied Computational Intelligence" at The 5th GIST- European Universities Joint Workshop, Babeş-Bolyai University, Cluj, Romania
- May 21-25, 2014** Invited lecture on "Fuzzy Data Analysis. Case Studies" at the 10th Joint Conference on Mathematics and Computer Science, jointly organized by Babeş-Bolyai University and Eötvös Loránd University, Cluj, Romania
- October 5-7, 2012** Invited lecture on "A Fuzzy Logic Model of the Romanian Uninominal Elections System" at the 12th International Conference on Artificial Intelligence and Digital Communications, Orsova, Romania
- July 9, 2008** Research Conference on “Theoretical Aspects of Fuzzy Sets in Data Analysis” at the Research Seminar, Department of Computer Science, University of Edinburgh, United Kingdom
- February 21, 2006** Research Conference “Fuzzy Sets in Data Analysis: between Theory and Applications” at the Graduate Seminar, Department of Computer Science, Wayne State University
- October 28–29 2005** The International Conference “The Impact of European Integration on the National Economy”, Babeş-Bolyai University, Cluj-Napoca, Romania
- September 18–21, 2005** The 10-th International Conference “Lux Europa 2005”, Berlin, Germany
- July 25 – August 4, 2005** The EuroLAN 2005 Summer School on “The Multilingual Web: Resources, Technologies and Prospects”, organised by The Romanian Academy, “Alexandru Ioan Cuza” University of Iasi and Babeş-Bolyai University Cluj-Napoca.
- May 20–22, 2005** The 4-th International Conference RoEduNet Romania, Sovata, Târgu-Mureş, Romania, organized by the Romanian Education Network RoEduNet and the “Petru Maior” University, Târgu-Mureş
- December 4, 2004** Professorship inaugural conference, “Fuzzy Sets in Data Analysis: between Theory and Applications”, Faculty of Mathematics and Computer Science, Babeş-Bolyai University, Cluj-Napoca, Romania
- September 19–21, 2001** The first European Conference on “Evolutionary Methods for Design, Optimisation and Control with Applications to Industrial Problems” EUROGEN 2001, Athens, Greece
- September 5–7, 2001** The International Conference on “Recent Advances in Natural Language Processing” RANLP2001, Tzigrav Chark, Bulgaria

- July 17, 2001** Presented the seminar on “Fuzzy Clustering” at the Research Group of Computational Chemistry, Faculty of Chemistry, University of Memphis, United States
- June 5–10, 2001** Invited lecture and chairman of one session at the 4-th Joint Conference on Mathematics and Computer Science, Felix-Oradea, Romania, jointly organized by Babeş-Bolyai University, Cluj and “Eötvös Loránd” University, Budapest
- July 31 – August 4, 2000** The 18-th International Conference on Computational Linguistics COLING 2000, Saarbrücken, Germany
- June 19, 2000** Presented the talk “Self-Organizing Map in Text Mining” at the Text Mining Seminar of the Natural Language Division, Faculty of Computer Science, University of Hamburg, Germany
- May 11, 2000** Presented the talk “A Soft-Computing Approach to NLP” at the Research Seminar of the Natural Language Division, Faculty of Computer Science, University of Hamburg, Germany
- November 18, 1999** Presented the talk “Fuzzy Clustering” at the Research Seminar of the Natural Language Division, Faculty of Computer Science, University of Hamburg, Germany
- September 8, 1999** Invited to present the conference “Fuzzy Clustering” at the Research Seminar of the Lighting Laboratory, Department of Electrical and Communications Engineering, Helsinki University of Technology, Helsinki, Finland
- October 6–10, 1998** Presentation “ActiveX” at the Advanced Educational Technologies Intensive Courses organized under the Tempus S-JEP 12518-97 program, with the participation of the “Petru Maior” University, Târgu Mures, Babeş-Bolyai University, Cluj-Napoca, Technical University of Cluj-Napoca, National College University of Ireland, Galway and National Technical University of Athens, Greece
- July 20–25, 1997** Advanced Summer School “Parallel and Distributed Computer Systems PARADIS ’97”, organized in Mangalia (Romania) by the “Politehnica” University of Bucharest, the Research Institute for Informatics Bucharest, the University of Marseille, and Glossy SA (Global Services and Systems) Bucharest, under the sponsorship of the Service Culturel of the Embassy of France in Romania, the Romanian National Commission for Informatics and the Romanian National Tempus Office
- February 20, 1997** Invited to present the conference “Fuzzy Clustering” at the Berkeley Initiative in Soft Computing Seminar, Computer Science Division, Department Electrical Engineering and Computer Science, University of California, Berkeley
- October 7, 1996** Microsoft Net Results ’97 Seminar, Sacramento, CA
- September 25–26, 1996** Northern California Plant Engineering and Maintenance Show and Conference, Santa Clara Convention Center, Santa Clara, CA
- February 7, 1996** Invited to present the conference “Fuzzy Clustering and Related Items” at the Artificial Intelligence Group Seminar, Department of Software, Computer Science Faculty of Barcelona, Universitat Politècnica de Catalunya
- January 19–20, 1996** Inter-Med 96, The first conference on the Mediterranean and the global information society, Barcelona, Spain
- December 1–3, 1994** C.I.E. (Commission Internationale de l’Eclairage) “Expert Symposium ’94 on Advances in Photometry – Lighting Quality and Energy Conservation”, Vienna, Austria
- August 1–5, 1994** Summer School “Computer Assisted Learning in the Field of Artificial Intelligence”, organized in Bucharest by the Romanian Academy, Department of Science and Technology of Information, Center of Advanced Research in Automatic Learning, Natural Language Processing and Conceptual Modelling and the Instituto “Dalle Molle” from Lugano, Switzerland
- September 26–29, 1993** 2nd European Conference on Energy-Efficient Lighting “Right Light”, Arnhem, Netherlands
- October 5–9, 1992** C.I.E. (Commission Internationale de l’Eclairage) Seminar “Computer Programs for Light and Lighting”, Vienna, Austria

International Co-operations

- David CARTER, School of Architecture, University of Liverpool, Great Britain
- Ulises CORTES, Facultat d'Informatica de Barcelona, Universitat Politecnica de Catalunya, Spain
- Farshad FOTOUHI, Department of Computer Science, Wayne State University, USA
- Jean-François L'HAIRE, William BOREL, Services Informatiques, Universite de Geneve, Switzerland
- Ramon SAN MARTIN, E.T.S. Enginyers Industrials de Barcelona, UPC, Barcelona, Spain
- Juan Carlos MARTINEZ COLL, Facultad de Derecho, Universidad de Malaga, Spain
- Joan JACAS MORAL, E.T.S. d'Arquitectura de Barcelona, UPC, Barcelona, Spain
- Malcom J. TAYLOR, Department of Computer Science, University of Liverpool, Great Britain
- Lotfi A. ZADEH, Computer Science Division, Department of EECS, University of California at Berkeley, United States

References

- Dr. David CARTER, School of Architecture, University of Liverpool, Leverhulme Building, Abercromby Square, P.O. Box 147, Liverpool L69 3BX, Great Britain, E-mail: eb09@liverpool.ac.uk
- Dr. Ulises CORTES, Facultat d'Informatica de Barcelona, Universitat Politecnica de Catalunya, c/ Jordi Girona, 1-3, ES-08034 Barcelona, Spain, E-mail: ia@goliat.upc.es
- Dr. Farshad FOTOUHI, Head, Department of Computer Science, Wayne State University, Detroit, 428 State Hall, Michigan 48202, USA, E-mail: fotouhi@cs.wayne.edu
- Dr. Militon FRENȚIU, Head, Chair of Programming Languages and Methods, Department of Computer Science, Faculty of Mathematics and Computer Science, Babeș-Bolyai University, 1 M. Kogalniceanu St., RO-400084 Cluj-Napoca, Romania, E-mail: mfrentiu@cs.ubbcluj.ro
- Dr. Jean-François L'HAIRE, Services Informatiques, Universite de Geneve, 24, rue General Dufour, CH-1211 Geneve 4, Switzerland, E-mail: lhaire@uni2a.unige.ch

List of papers

Dr. Horia F. Pop, Professor

I Papers in publications from *ISI Web of Knowledge*

I.1 Articles indexed in *ISI Web of Knowledge*

- [1] CUNDARI, T. R., DENG, J., POP, H. F., AND SÂRBU, C. Structural analysis of transition metal Beta-X substituent interactions. Towards the use of soft computing methods for catalyst modeling. *Journal of Chemical Information and Computer Sciences* 40, 4 (2000), 1052–1061.
- [2] CUNDARI, T. R., SÂRBU, C., AND POP, H. F. Robust Fuzzy Principal Component Analysis (FPCA). a comparative study concerning interaction of carbon-hydrogen bonds with molybdenum-oxo bonds. *Journal of Chemical Information and Computer Sciences* 42, 6 (2002), 1363–1369.
- [3] DUMITRESCU, D., AND POP, H. F. Convex decomposition of fuzzy partitions, I. *Fuzzy Sets and Systems* 73, 3 (1995), 365–376. ISSN 0165-0114.
- [4] DUMITRESCU, D., AND POP, H. F. Convex decomposition of fuzzy partitions, II. *Fuzzy Sets and Systems* 96, 1 (1998), 111–118. ISSN 0165-0114.
- [5] DUMITRESCU, D., POP, H. F., AND SÂRBU, C. Fuzzy hierarchical cross-classification of Greek muds. *Journal of Chemical Information and Computer Sciences* 35 (1995), 851–857.
- [6] DUMITRESCU, D., SÂRBU, C., AND POP, H. F. A fuzzy divisive hierarchical clustering algorithm for the optimal choice of set of solvent systems. *Analytical Letters* 27, 5 (1994). 1031–1054.
- [7] HOROWITZ, O., POP, H. F., AND SÂRBU, C. Recognition of the forms applied to chemical elements. *Revista de Chimie* 51, 1 (2000), 17–29.
- [8] POP, H. F., DUMITRESCU, D., AND SÂRBU, C. A study of Roman pottery (terra sigillata) using hierarchical fuzzy clustering. *Analytica Chimica Acta* 310, 2 (1995), 269–279.
- [9] POP, H. F., EINAX, J. W., AND SÂRBU, C. Classical and fuzzy principal component analysis of some environmental samples concerning the pollution with heavy metals. *Chemometrics and Intelligent Laboratory Systems* 97, 1 (2009), 25–32.
- [10] POP, H. F., AND SÂRBU, C. A new fuzzy regression algorithm. *Analytical Chemistry* 68, 5 (1996), 771–778.
- [11] POP, H. F., AND SÂRBU, C. The fuzzy hierarchical cross-clustering algorithm. Improvements and Comparative study. *Journal of Chemical Information and Computer Sciences* 37, 3 (1997), 510–516.
- [12] POP, H. F., AND SÂRBU, C. Fuzzy regression. i: The heteroskedastic case. *Revista de Chimie* 48, 8 (1997), 732–737.
- [13] POP, H. F., AND SÂRBU, C. A new fuzzy discriminant analysis method. *MATCH — Communications in Mathematical and in Computer Chemistry* 69, 2 (2013), 391–412.
- [14] POP, H. F., SÂRBU, C., ȘTEFĂNESCU, A., BIZO, A., AND POP, T. L. Prognostic factors in liver failure in children by discriminant analysis of clinical data. a chemometric approach. *Studia Universitatis Babeș-Bolyai, Series Chemia* 60, 2 (2015), 101–108.
- [15] POP, H. F., SÂRBU, C., HOROWITZ, O., AND DUMITRESCU, D. A fuzzy classification of the chemical elements. *Journal of Chemical Information and Computer Sciences* 36, 3 (1996), 465–482.
- [16] SÂRBU, C., DUMITRESCU, D., AND POP, H. F. Optimum selection and combination of solvent systems in thin layer chromatography using the fuzzy sets theory. *Revista de Chimie* 44, 5 (1993), 450–459.

- [17] SÂRBU, C., HOROWITZ, O., AND POP, H. F. Fuzzy cross-classification of the chemical elements, based both on their physical, chemical and structural features. *Journal of Chemical Information and Computer Sciences* 36, 6 (1996), 1098–1108.
- [18] SÂRBU, C., AND POP, H. F. Fuzzy regression. ii: Outliers cases. *Revista de Chimie* 48, 10–11 (1997), 888–891.
- [19] SÂRBU, C., AND POP, H. F. Fuzzy clustering analysis of the first 10 MEIC chemicals. *Chemosphere* 40, 5 (2000), 513–520.
- [20] SÂRBU, C., AND POP, H. F. Fuzzy classification and comparison of some Romanian and American coals. *MATCH — Communications in Mathematical and in Computer Chemistry* 44 (October 2001), 387–400.
- [21] SÂRBU, C., AND POP, H. F. Fuzzy robust estimation of central location. *Talanta* 54 (2001), 125–130.
- [22] SÂRBU, C., AND POP, H. F. Fuzzy soft-computing methods and their applications in chemistry. In *Reviews in Computational Chemistry*, K. B. Lipkowitz, R. Larter, and T. R. Cundari, Eds., vol. 20. VCH Publishers, New York, 2004, pp. 249–332. ISBN 0-471-44525-8.
- [23] SÂRBU, C., AND POP, H. F. Principal Component Analysis versus Fuzzy Principal Component Analysis. A case study: The quality of Danube water (1985-1996). *Talanta* 65 (2005), 1215–1220.
- [24] SARBU, C., POP, H. F., ELEKES, R. S., AND COVACI, G. Intelligent disease identification based on discriminant analysis. *Revista de Chimie* 59, 11 (2008), 1237–1241.

I.2 Proceedings papers indexed in ISI Web of Knowledge

- [1] ȘERBAN, C., VESCAN, A., AND POP, H. F. A new component selection algorithm based on metrics and fuzzy clustering analysis. In *Proceedings of the 4th International Conference on Hybrid Artificial Intelligence Systems (HAIS). Lecture Notes in Artificial Intelligence, LNCS 5572/2009* (Salamanca, Spain, June 10–12 2009), pp. 621–628. ISBN: 978-3-642-02318-7.
- [2] ȘERBAN, C., VESCAN, A., AND POP, H. F. A conceptual framework for component-based system metrics definition. In *9-th RoEduNet IEEE International Conference* (Lucian Blaga University, Sibiu, Romania, June 24–26 2010), pp. 73–78. <http://roedu2010.ulbsibiu.ro>.
- [3] ȘERBAN, O. M., PAUCHET, A., AND POP, H. F. Recognizing emotions in short text. In *International Conference on Agents and Artificial Intelligence (ICAART)* (Vilamoura, Algrave, Portugal, February 7–8 2012), J. Filipe and A. Fred, Eds., SciTePress, pp. 477–480. ISBN: 978-989-8425-95-9.
- [4] FEI, X., LU, S., POP, H. F., AND LIANG, L. R. GFBA: A genetic fuzzy biclustering algorithm for discovering value-coherent biclusters. In *2007 International Symposium on Bioinformatics Research and Applications (ISBRA). Lecture Notes in Bioinformatics, LNCS 4463/2007* (Georgia State University, Atlanta, May 6-9 2007), pp. 1–12. ISBN: 978-3-540-72030-0.
- [5] FRENȚIU, M., AND POP, H. F. Tracking mistakes in software measurement using fuzzy data analysis. In *The 4-th International Conference RoEduNet Romania* (Sovata, Târgu-Mureș, Romania, May 20–22 2005), pp. 150–157. Organized by the Romanian Education Network RoEduNet and the Petru Maior University, Târgu-Mureș. ISBN 973-7794-26-5.
- [6] GĂCEANU, R. D., AND POP, H. F. A fuzzy clustering algorithm for dynamic environments. In *International Conference Knowledge Engineering Principles and Techniques (KEPT). Selected Papers* (2011), Cluj University Press, Cluj-Napoca, Romania, pp. 119–130. ISSN: 2067-1180. (MathSciNet, ZMath).
- [7] GĂCEANU, R. D., AND POP, H. F. A parallel clustering approach for hybrid data discovery. In *Proceedings of the 12th International Conference on Informatics, Informatics 2013* (Spišská Nová Ves, Slovakia, November 5–7 2013), V. Novitzká and S. Hudák, Eds., Slovak Society for Applied Cybernetics and Informatics, pp. 240–246.
- [8] MIRON, A., AINOUS, S., ROGOZAN, A., BENSRAIR, A., AND POP, H. F. Stereomatching using radiometric invariant measures. In *International Conference Knowledge Engineering Principles and Techniques (KEPT). Selected Papers* (2011), Cluj University Press, Cluj-Napoca, Romania, pp. 369–378. ISSN: 2067-1180. (MathSciNet, ZMath).

- [9] POP, H. F. A tutorial on object-orientedness in functional programming. In *Second Central European Functional Programming Summer School (CEFP), Revised Selected Lectures. Lecture Notes in Computer Science, LNCS 5161/2008* (Babeş-Bolyai University, Cluj-Napoca, Romania, June 23–30 2007), pp. 228–249. ISBN 978-3-540-88058-5.
- [10] POP, H. F., AND FRENTIU, M. Effort estimation by analogy based on soft computing methods. In *International Conference Knowledge Engineering Principles and Techniques (KEPT). Selected Papers* (2009), Cluj University Press, Cluj-Napoca, Romania, pp. 239–246. (MathSciNet, ZMath).
- [11] POP, H. F., AND FRENTIU, M. Applications of Principal Components Methods. In *2008 Complexity & Intelligence of the Artificial & Natural Complex Systems, Medical Applications of the Complex Systems, Biomedical Computing* (Petru Maior Univ. Târgu-Mureş, Romania, November 08–10 2008), Iantovics, BL and Enachescu, C and Filip, FG, Ed., Romanian Acad. Bucharest & Petru Maior Univ. Targu-Mures, pp. 103–109. International Conference on Complexity and Intelligence of the Artificial and Natural Complex Systems - Medical Applications of the Complex Systems Biomedical Computing. ISBN 978-1-4244-3937-9.
- [12] POP, H. F., AND FRENTIU, M. Applications of Principal Components Methods. In *Complexity in Artificial and Natural Systems, Proceedings* (Petru Maior Univ. Târgu-Mureş, Romania, November 08–10 2008), Iantovics, B and Enachescu, C and Filip, F, Ed., pp. 267–270. International Conference on Complexity and Intelligence of the Artificial and Natural Complex Systems - Medical Applications of the Complex Systems Biomedical Computing. ISBN 978-973-7794-76-5.
- [13] TAN, L., FOTOUHI, F., GROSKY, W., POP, H. F., AND MOUADDIB, N. Improving similarity join algorithms using fuzzy clustering technique. In *Proceedings of the 2009 IEEE International Conference on Data Mining Workshops (ICDM Workshops)* (Miami, Florida, USA, December 6–9 2009), IEEE Computer Society, pp. 545–550.
- [14] VESCAN, A., GROSAN, C., AND POP, H. F. Evolutionary algorithms for the component selection problem. In *19th International Conference on Database and Expert Systems Applications, Proceedings (DEXA 2008)* (Turin, Italy, September 01-05 2008), Tjoa, AM and Wagner, RR, Ed., The 2nd International Workshop Evolutionary Techniques in Data Processing, pp. 509–513. ISBN 978-0-7695-3299-8.

I.3 Proceedings papers in conferences from CORE Conference DB

- [1] BOIAN, F., BOIAN, R., VANCEA, A., AND POP, H. F. Distance learning and supporting tools at Babeş-Bolyai University. In *The Informatics Education Europe Conference (IEE II)* (Thessaloniki, Greece, November 29–30 2007), pp. 332–340. ISBN: 978-960-89629-3-4.
- [2] CĂLIN, A. D., POP, H. F., AND BOIAN, R. Improving movement analysis in physical therapy systems based on kinect interaction. In *British Human Computer Interaction Conference (British HCI 2017)* (University of Sunderland, UK, July 3–6 2017), British Computer Society, p. to appear.
- [3] FOTH, K. A., MENZEL, W., POP, H. F., AND SCHRÖDER, I. An experiment in incremental parsing using weighted constraints. In *The 18-th International Conference on Computational Linguistics (COLING)* (Saarbrücken, Germany, July, 31 – August, 4 2000), pp. 1026–1030. ISBN 1-55860-717-X.
- [4] SCHRÖDER, I., POP, H. F., MENZEL, W., AND FOTH, K. A. Learning grammar weights using genetic algorithms. In *Recent Advances in NLP (RANLP)* (Tzigov Chark, Bulgaria, September 5–7 2001), pp. 235–239. ISBN 954-90906-1-2.

I.4 Articles indexed in Scopus

- [1] POP, H. F., POP, T. L., AND SÂRBU, C. Assessment of heart disease using fuzzy classification techniques. *The Scientific World Journal 1* (2001), 369–390. ISSN 1537-744X.

I.5 Proceedings papers indexed in Scopus

- [1] ȘERBAN, C., VESCAN, A., AND POP, H. F. A formal model for component-based system assessment. In *Second international conference on Computational Intelligence, Modelling and Simulation (CIMSIm)* (Bali, September 28–30 2010), pp. 261–266.
- [2] GEORGESCU, V., POP, H. F., TUDORACHE, O., SABĂU, H., CIONTU, C., AND STRÂMBU, V. Romanian registry on cardiac arrest – a piece in the puzzle – romanian contribution in the EuReCA project. In *10th Congress of the European Resuscitation Council. Resuscitation, 81/2010* (Porto, Portugal, December 2–4 2010), J. Nolan, Ed., Elsevier Publishers, p. S39. doi:10.1016/j.resuscitation.2010.09.167. (Scopus; Short paper / Poster).
- [3] SABĂU, H., TUDORACHE, O., POP, H. F., GEORGESCU, V., STRÂMBU, V., DIMITRIU, I., NICOLAU, M. S., CIMPOEȘU, D., BORCEA, H., AND BRÂNZEĂ, A. Joining the EuReCA — The Romanian Registry on Cardiac Arrest — a year later. In *11th Congress of the European Resuscitation Council. Resuscitation, 82/2011* (Valetta, Malta, October 14–15 2011), J. Nolan, Ed., Elsevier Publishers, p. S19. doi:10.1016/S0300-9572(11)70075-2. (Scopus; Short paper / Poster).
- [4] VESCAN, A., AND POP, H. F. Automatic configuration for the component selection problem. In *Proceedings of the 5th international conference on Soft computing as transdisciplinary science and technology (CSTST)* (Cergy-Pontoise, France, October 27–31 2008), ACM, New York, NY, USA, pp. 479–483. ISBN 978-1-60558-046-3.

II International Papers

II.1 Papers in international journals

- [1] CHINDRIȘ, M., COLOȘI, T., AND POP, H. F. On the numerical modeling and simulation of the control system for a medium frequency static converter. *Acta Electrotehnica Napocensis* 39, 1 (1998), 51–56. (Referativnyi Zhurnal, DOAJ).
- [2] COROIU, A. M., GĂCEANU, R. D., AND POP, H. F. Discovering patterns in data using ordinal data analysis. *Studia Universitatis Babeș-Bolyai, Series Informatica* 61, 1 (2016), 78–93.
- [3] ȘERBAN, C., AND POP, H. F. Software quality assessment using a fuzzy clustering approach. *Studia Universitatis Babeș-Bolyai, Informatica* 53, 2 (2008), 27–38. (MathSciNet, ZMath).
- [4] ȘERBAN, C., VESCAN, A., AND POP, H. F. Component selection based on fuzzy clustering analysis. *Creative Mathematics and Informatics* 17, 3 (2008), 505–510. (MathSciNet, ZMath).
- [5] ȘERBAN, C., VESCAN, A., AND POP, H. F. Preliminary measurements in identifying design flaws. *Studia Universitatis Babeș-Bolyai, Series Informatica* 62, 1 (2017), 60–74.
- [6] DUMITRESCU, D., AND POP, H. F. A preliminary bibliography on fuzzy clustering and related fields. *Studia Universitatis Babeș-Bolyai, Mathematica* 35, 3 (1990), 13–24. (MathSciNet, ZMath).
- [7] FRENȚIU, M., LAZĂR, I., AND POP, H. F. On individual projects in software engineering education. *Studia Universitatis Babeș-Bolyai, Informatica* 48, 2 (2003), 83–94. (MathSciNet, ZMath).
- [8] FRENȚIU, M., AND POP, H. F. A study of dependence of software attributes using data analysis techniques. *Studia Universitatis Babeș-Bolyai, Informatica* 47, 2 (2002), 53–66. (MathSciNet, ZMath).
- [9] FRENȚIU, M., AND POP, H. F. Overview of fuzzy methods for effort estimation by analogy. *Studia Universitatis Babeș-Bolyai, Informatica* 1 (2009), 68–74. (MathSciNet, ZMath).
- [10] FRENȚIU, M., AND POP, H. F. Common mistakes in writing a scientific papers. *Studia Universitatis Babeș-Bolyai, Informatica* 55, 4 (2010), 3–8. (MathSciNet, ZMath).
- [11] GĂCEANU, R. D., AND POP, H. F. A context-aware asm-based clustering algorithm. *Studia Universitatis Babeș-Bolyai, Informatica* 56, 2 (2011), 55–60. (MathSciNet, ZMath).

- [12] GĂCEANU, R. D., AND POP, H. F. A fuzzy incremental clustering approach to hybrid data discovery. *Acta Electrotehnical et Informatica* 12, 2 (2012), 16–23. (MathSciNet, ZMath).
- [13] GĂCEANU, R. D., AND POP, H. F. An incremental approach to the set covering problem. *Studia Universitatis Babeş-Bolyai, Informatica* 57, 2 (2012), 61–72. (MathSciNet, ZMath).
- [14] GĂCEANU, R. D., AND POP, H. F. Medical procedure breaches detection using a fuzzy clustering approach. *Central European Journal of Computer Science* 4, 3 (2014), 127–140.
- [15] GĂCEANU, R. D., POP, H. F., AND SOTOC, S. A. An agent based approach for parallel constraint verification. *Studia Universitatis Babeş-Bolyai, Informatica* 58, 3 (2013), 5–16. (MathSciNet, ZMath).
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