



Europass Curriculum Vitae

Personal information

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

Address(es) Cluj-Napoca, Romania

Telephone(s) +40.264.405327 (office) Mobile:

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 Occupational field **Professor of Computer Science, Babeş-Bolyai University**

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

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>12</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)	12
Hirsh index (ISI)	11						
Hirsch index (Scopus)	12						
Hirsch index (Google Scholar)	12						

Curriculum Vitae

Dr. Horia F. POP, Professor

General Data

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

Home address 1/29 Băița St., RO-400427 Cluj-Napoca, Romania, Phone: +40.364.265.142

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 Hindawy 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 \LaTeX 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 Satisfaction 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 Methods 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 Babeș-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 Babeș-Bolyai University.

2005–2007 Systems for collaborative decision aid in academic environments – case study BBU. Grant TP 2/2005, financed by the Babeș-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 Babeș-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 Babeș-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 “Babeș-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 “Babeș-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

- 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 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 Iași 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, CEFP 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, Tzigov 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. (Comission 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. (Comission 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’Informàtica de Barcelona, Universitat Politècnica de Catalunya, Spain
- Farshad FOTOUHI, Department of Computer Science, Wayne State University, USA
- Jean-François L’HAIRE, William BOREL, Services Informatiques, Université de Genève, Switzerland
- Ramon SAN MARTIN, E.T.S. Enginyers Industrials de Barcelona, UPC, Barcelona, Spain
- Juan Carlos MARTINEZ COLL, Facultat de Dret, Universitat de Màlaga, 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’Informàtica de Barcelona, Universitat Politècnica 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. Milton 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, Université de Genève, 24, rue General Dufour, CH-1211 Genève 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., 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.
- [11] POP, H. F., AND SÂRBU, C. A new fuzzy regression algorithm. *Analytical Chemistry* 68, 5 (1996), 771–778.
- [12] 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.
- [13] POP, H. F., AND SÂRBU, C. Fuzzy regression. i: The heteroskedastic case. *Revista de Chimie* 48, 8 (1997), 732–737.
- [14] 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.
- [15] POP, H. F., SÂRBU, C., ŞTEFĂNESCU, 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 Babeş-Bolyai, Series Chemia* 60, 2 (2015), 101–108.
- [16] 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.

- [17] 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.
- [18] 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.
- [19] SÂRBU, C., AND POP, H. F. Fuzzy regression. ii: Outliers cases. *Revista de Chimie* 48, 10–11 (1997), 888–891.
- [20] SÂRBU, C., AND POP, H. F. Fuzzy clustering analysis of the first 10 MEIC chemicals. *Chemosphere* 40, 5 (2000), 513–520.
- [21] 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.
- [22] SÂRBU, C., AND POP, H. F. Fuzzy robust estimation of central location. *Talanta* 54 (2001), 125–130.
- [23] 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.
- [24] 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.
- [25] SÂRBU, 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] ŞERBAN, 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. Lecture Notes in Artificial Intelligence, LNCS 5572/2009* (Salamanca, Spain, June 10-12 2009), pp. 621–628. ISBN: 978-3-642-02318-7.
- [2] ŞERBAN, 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] ŞERBAN, O. M., PAUCHET, A., AND POP, H. F. Recognizing emotions in short text. In *International Conference on Agents and Artificial Intelligence* (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'2007). 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-Mureş, Romania, May 20–22 2005), pp. 150–157. Organized by the Romanian Education Network RoEduNet and the “Petru Maior” University, Târgu-Mureş. ISBN 973-7794-26-5.
- [6] 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.
- [7] POP, H. F. A tutorial on object-orientedness in functional programming. In *Second Central European Functional Programming Summer School (CEFP 2007), 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.

- [8] POP, H. F., AND FRENȚIU, M. Applications of principal components methods. In *The International Conference “Complexity and Intelligence of the Artificial and Natural Complex Systems. Medical Applications of the Complex Systems. Biomedical Computing”* (November 8–10 2008), “Petru Maior” University Târgu Mureș, Romanian Academic Bucharest, pp. 232–235. ISSN 2065-0426.
- [9] POP, H. F., AND FRENȚIU, M. Applications of principal components methods. In *Complexity in Artificial and Natural Systems, Proceedings* (2008), Editura Universității Petru Maior, Târgu-Mureș, pp. 267–270. ISBN 978-973-7794-76-5.
- [10] POP, H. F., AND FRENȚIU, M. Effort estimation by analogy based on soft computing methods. In *KEPT 2009 International Conference Knowledge Engineering Principles and Techniques. Selected Papers* (2009), Cluj University Press, Cluj-Napoca, Romania, pp. 239–246. (MathSciNet, ZMath).
- [11] TAN, L., FOTOUHI, F., GROSKY, W., POP, H. F., AND MOUADDIB, N. Improving similarity join algorithms using fuzzy clustering technique. In *ICDMW '09: Proceedings of the 2009 IEEE International Conference on Data Mining Workshops* (Washington, DC, USA, 2009), IEEE Computer Society, pp. 545–550.
- [12] VESCAN, A., GROȘAN, C., AND POP, H. F. Evolutionary algorithms for the component selection problem. In *The 2nd International Workshop Evolutionary Techniques in Data Processing* (2008), vol. 1529-4188, IEEE Computer Society Press, pp. 509–513. ISBN 978-0-7695-3299-8.

I.3 Proceedings papers in conferences from ISI Web of Knowledge

- [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* (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. (Short paper; Scopus).
- [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. (Short paper; Scopus).
- [4] VESCAN, A., AND POP, H. F. Automatic configuration for the component selection problem. In *CSTST '08: Proceedings of the 5th international conference on Soft computing as transdisciplinary science and technology* (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] 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).
- [3] 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).

- [4] DUMITRESCU, D., AND POP, H. F. A preliminary bibliography on fuzzy clustering and related fields. *Studia Universitatis Babeş-Bolyai, Mathematica* 35, 3 (1990), 13–24. (MathSciNet, ZMath).
- [5] FRENȚIU, M., LAZĂR, I., AND POP, H. F. On individual projects in software engineering education. *Studia Universitatis Babeş-Bolyai, Informatica* 48, 2 (2003), 83–94. (MathSciNet, ZMath).
- [6] FRENȚIU, M., AND POP, H. F. A study of dependence of software attributes using data analysis techniques. *Studia Universitatis Babeş-Bolyai, Informatica* 47, 2 (2002), 53–66. (MathSciNet, ZMath).
- [7] FRENȚIU, M., AND POP, H. F. Overview of fuzzy methods for effort estimation by analogy. *Studia Universitatis Babeş-Bolyai, Informatica* 1 (2009), 68–74. (MathSciNet, ZMath).
- [8] FRENȚIU, M., AND POP, H. F. Common mistakes in writing a scientific papers. *Studia Universitatis Babeş-Bolyai, Informatica* 55, 4 (2010), 3–8. (MathSciNet, ZMath).
- [9] GĂCEANU, R. D., AND POP, H. F. A context-aware asm-based clustering algorithm. *Studia Universitatis Babeş-Bolyai, Informatica* 56, 2 (2011), 55–60. (MathSciNet, ZMath).
- [10] 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).
- [11] 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).
- [12] 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.
- [13] 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).
- [14] MIRON, A., AINOUZ, S., ROGOZAN, A., BENSRAHAI, A., AND POP, H. F. Stereomatching using radiometric invariant measures. *Studia Universitatis Babeş-Bolyai, Informatica* 56, 3 (2011), 91–96. (MathSciNet, ZMath).
- [15] POP, F., AND POP, H. F. Residential energy efficient lighting. *Acta Electrotechnica Napocensis Special Issue* (2008), 397–403. The 2nd International Conference on Modern Power Systems MPS 2008, November 12–14, 2008. Academy of Technical Sciences of Romania, Technical University of Cluj-Napoca, Romania. ISSN 1224-2497 (Referativnyi Zhurnal, DOAJ).
- [16] POP, H. F. A study of the properties of the Fuzzy Relaxation Algorithm. *Studia Universitatis Babeş-Bolyai, Mathematica* 39, 3 (1994), 67–74. (MathSciNet, ZMath).
- [17] POP, H. F. Supervised fuzzy classifiers. *Studia Universitatis Babeş-Bolyai, Mathematica* 40, 3 (1995), 89–100. (MathSciNet, ZMath).
- [18] POP, H. F. SAADI: Software for fuzzy clustering and related fields. *Studia Universitatis Babeş-Bolyai, Informatica* 41, 1 (1996), 69–80. (MathSciNet, ZMath).
- [19] POP, H. F. Improvements of the fuzzy cross-clustering algorithm. *Studia Universitatis Babeş-Bolyai, Informatica* 42, 2 (1997), 3–12. (MathSciNet, ZMath).
- [20] POP, H. F. A new regression technique based on fuzzy sets. *Studia Universitatis Babeş-Bolyai, Informatica* 43, 1 (1998), 3–12. (MathSciNet, ZMath).
- [21] POP, H. F. Principal Components Analysis based on a fuzzy sets approach. *Studia Universitatis Babeş-Bolyai, Informatica* 46, 2 (2001), 45–52. (MathSciNet, ZMath).
- [22] POP, H. F. Data analysis with fuzzy sets: a short survey. *Studia Universitatis Babeş-Bolyai, Informatica* 49, 2 (2004), 111–122. (MathSciNet, ZMath).
- [23] POP, H. F. Development of robust fuzzy regression techniques using a fuzzy clustering approach. *Pure Mathematics and Applications* 14, 3 (2004), 221–232.

- [24] POP, H. F., AND FRENȚIU, M. On software attributes relationship using a new fuzzy c-bipartitioning method. *Studia Universitatis Babeş-Bolyai, Informatica Special Issue* (2007), 219–226. International Conference “Knowledge Engineering Principles and Techniques” (KEPT 2007), June 6–8 2007, Babeş-Bolyai University, Cluj-Napoca, Romania. (MathSciNet, ZMath).
- [25] POP, H. F., AND FRENȚIU, M. Fuzzy clustering in software engineering. *Analele Universităţii de Vest, Timişoara, Seria Matematică-Informatică* 46, 2 (2008), 123–131. (MathSciNet, ZMath).
- [26] POP, H. F., AND FRENȚIU, M. Fuzzy data analysis for software metrics assessment of student projects. In *Topics in Mathematics, Computer Science and Philosophy. A Festschrift for Wolfgang W. Breckner on his 65th Anniversary* (Cluj-Napoca, 2008), Ştefan Cobzaş, Ed., Presa Universitară Clujeană, pp. 23–32. (MathSciNet, ZMath).
- [27] PUŞCĂ, M. V., POP, H. F., ROMAN, M. N., AND IANCU, V. Processing ECG data using multivariate data analysis. *Annals of the Academy of Romanian Scientists, Series on Science and Technology of Information* 3, 2 (2010), 23–38.
- [28] SCHRÖDER, I., POP, H. F., MENZEL, W., AND FOTH, K. A. Learning the constraints weights of a dependency grammar using genetic algorithms. In *Evolutionary Methods for Design, Optimisation and Control with Applications to Industrial Problems*, K. C. Giannakoglou, D. T. Tsahalis, J. Périaux, K. D. Papaillou, and T. Fogarty, Eds. CIMNE Barcelona, 2002, pp. 243–247.
- [29] TÂMBULEA, L., AND POP, H. F. Management of web pages using XML documents. *Studia Universitatis Babeş-Bolyai, Informatica Special Issue* (2007), 236–243. International Conference “Knowledge Engineering Principles and Techniques” (KEPT 2007), June 6–8 2007, Babeş-Bolyai University, Cluj-Napoca, Romania. (MathSciNet, ZMath).
- [30] TĂTAR, D., POP, H. F., FRENȚIU, M., AND DUMITRESCU, D. The first international conference on knowledge engineering principles and techniques (KEPT 2007). *Studia Universitatis Babeş-Bolyai, Informatica* 52, 1 (2007), 3–10. (MathSciNet, ZMath).
- [31] VESCAN, A., AND POP, H. F. Constraint optimization-based component selection problem. *Studia Universitatis Babeş-Bolyai, Informatica* 53, 2 (2008), 3–14. (MathSciNet, ZMath).
- [32] VESCAN, A., AND POP, H. F. Automatic criteria-based configuration for the component selection problem. *International Journal of Computer Information Systems and Industrial Management Applications* 4 (2012), 641–647.

II.2 Papers in proceedings of international conferences

- [1] BOIAN, F., BOIAN, R., VANCEA, A., AND POP, H. F. Distance learning and supporting tools at babes-bolyai university. In *The IEEE – Informatics Education in Europe Conference* (Thessaloniki, Greece, November 29–30 2007), pp. 332–340. ISBN: 978-960-89629-3-4.
- [2] BOIAN, F. M., POP, H. F., IURIAN, S., IURIAN, M., AND VANCEA, A. The Unix environment at the “Babeş-Bolyai” University. In *The Second International Conference on Open Systems ROSE’94, Technical Sessions* (Bucharest, Romania, November, 3–5 1994), pp. 145–149.
- [3] BOIAN, F. M., VANCEA, A., AND POP, H. F. Teaching parallel and distributed computing. In *The Third International Conference on Open Systems ROSE’95, Technical Sessions* (Bucharest, Romania, November, 1–4 1995), pp. 66–74.
- [4] CHINDRIŞ, M., COLOŞI, T., AND POP, H. F. On the numerical modeling and simulation of the control system for a medium frequency static converter. In *First International Symposium on Mathematical Models in Automation and Robotics, MMAR’94* (Międzyzdroje, Poland, September 1–3 1994), pp. 181–186.
- [5] DUMITRESCU, D., LOWY, D. A., ONICIU, L., KISS-SZETSI, S., AND POP, H. F. Propionitrile electrosynthesis. pattern recognition in the evaluation of gas-chromatographic data. In *The 41st Meeting of International Society of Electrochemistry* (Prague, August 20–25 1990), pp. 58–59.
- [6] DUMITRESCU, D., SAS, L., ŞERBAN, G., CÂMPAN, A., DĂRĂBANT, A. S., POP, H. F., AND TÂMBULEA, L. Cooperative learning for distributed data mining. In “*Collaborative Support Systems in Business and Education*”, *International workshop* (Cluj-Napoca, Romania, October 28–29 2005), pp. 432–440.

- [7] 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 (COLING2000)* (Saarbrücken, Germany, July, 31 – August, 4 2000), pp. 1026–1030. ISBN 1-55860-717-X.
- [8] FRENȚIU, M., AND POP, H. F. Effort estimation by analogy using a fuzzy clustering approach. *Studia Universitatis Babeş-Bolyai, Informatica Special Issue* (2009), 202–205. KEPT 2009 International Conference Knowledge Engineering Principles and Techniques, July 2–4 2009, Babeş-Bolyai University, Cluj-Napoca, Romania. (MathSciNet, ZMath).
- [9] GĂCEANU, R. D., AND POP, H. F. An adaptive fuzzy agent clustering algorithm for search engines. In *8th Joint Conference on Mathematics and Computer Science MaCS 2010, Selected papers* (Komarno, Slovakia, July 14–17 2010), H. F. Pop and A. Bege, Eds., Novadat LTD Publishers, pp. 185–196. (MathSciNet, ZMath).
- [10] GĂCEANU, R. D., AND POP, H. F. A fuzzy clustering algorithm for dynamic environments. In *KEPT 2011 International Conference Knowledge Engineering Principles and Techniques. Selected Papers* (2011), Cluj University Press, Cluj-Napoca, Romania, pp. 119–130. ISSN: 2067-1180. (MathSciNet, ZMath).
- [11] GĂCEANU, R. D., AND POP, H. F. An incremental asm-based fuzzy clustering algorithm. In *Proceedings of the Eleventh International Conference on Informatics, Informatics 2011* (Rožňava, Slovakia, November 16-18 2011), V. Novitzká and S. Hudák, Eds., Slovak Society for Applied Cybernetics and Informatics, pp. 198–204. (indexed MathematicalReviews).
- [12] MIRON, A., AINOUS, S., ROGOZAN, A., BENSRAIR, A., AND POP, H. F. Stereomatching using radiometric invariant measures. In *KEPT 2011 International Conference Knowledge Engineering Principles and Techniques. Selected Papers* (2011), Cluj University Press, Cluj-Napoca, Romania, pp. 369–378. ISSN: 2067-1180. (MathSciNet, ZMath).
- [13] ORBAN, S., POP, H. F., AND POP, F. Chromaticity in architectural lighting – A luminous environment feature. In *ILUMINAT 2003 International Conference (Commission Internationale de l’Eclairage – Comitetul Național Român de Iluminat)* (Cluj-Napoca, Romania, May 8–9 2003), pp. 38.1–38.4. ISBN 973-9357-44-X.
- [14] POP, F., BEU, D., POP, H. F., AND MOCA, M. Practical aspects of lighting quality / Refurbishment and modernization of lighting installations using energy efficient systems. In *C.I.E. Expert Symposium '94 on Advances in Photometry — Lighting Quality and Energy Conservation* (Vienna, Austria, December 1–3 1994), pp. 165–170. ISBN 3-900-734-61-5.
- [15] POP, F., ORBAN, S., AND POP, H. F. Integration of the architectural lighting on the environment. In *International Conference CONSTRUCTIONS 2003* (Cluj-Napoca, Romania, May 16–17 2003), pp. 407–410. ISBN 973-9350-87-9, 973-9350-90-9.
- [16] POP, F., AND POP, H. F. L.I.D. — computer programs for lighting installations design. In *C.I.E. Seminar of Computer Programs for Light and Lighting* (Vienna, Austria, October 5–9 1992), p. 80. Publ. No. CIE x005. ISBN 3-900-734-41-0.
- [17] POP, F., AND POP, H. F. I.E.L.D. — Interior and Exterior Lighting Design, computer programs for didactic activities. In *The Second European Conference on Energy-Efficient Lighting RIGHT LIGHT* (Arnhem, The Netherlands, September 26–29 1993), pp. 666–672.
- [18] POP, H. F. Development of robust fuzzy regression techniques using a fuzzy clustering approach. In *The 4-th Joint Conference on Mathematics and Computer Science* (Felix-Oradea, Romania, June 5–10 2001), pp. 5–7. Jointly organized by Babeş-Bolyai University, Cluj and “Eötvös Loránd” University, Budapest.
- [19] POP, H. F., AND FRENȚIU, M. Applications of principal components methods. In *Complexity and Intelligence of the Artificial and Natural Complex Systems. Medical Applications of the Complex Systems, Biomedical Computing. CANS 2008* (2008), IEEE Computer Society, Los Alamos, USA, pp. 103–109. ISBN 978-0-7695-3621-7.
- [20] POP, H. F., MUNTEANU, A., AND POP, F. A fuzzy clustering approach of optimal evaluation criteria for electric network distribution systems. In *Interdisciplinarity in Engineering, Inter-Ing 2003 Scientific Conference with International Participation, Volume II* (Petru Maior University, Târgu-Mureş, Romania, November 6–7 2003), pp. 293–298.

- [21] POP, H. F., AND POP, L. G. Education for engineering students: The case of logic. In *SIELMEN 2007, The 6-th International Conference on Electromechanical and Power Systems, Annals of the University of Craiova, Series Electric Engineering, No. 31, 2007, Vol. I* (Technical University of Moldova, Chişinău, Republic of Moldova, October 4–6 2007), pp. 259–264.
- [22] POP, M., POP, H. F., AND POP, F. LQ – A toolkit for lighting quality evaluation. In *ILUMINAT 2003 International Conference (Commission Internationale de l’Eclairage – Comitetul Naţional Român de Iluminat)* (Cluj-Napoca, Romania, May 8–9 2003), pp. 40.1–40.5. ISBN 973-9357-44-X.
- [23] POP, M., POP, H. F., AND POP, F. Appraisal of indoor lighting systems quality. In *The 4th Conference BalkanLight 2008* (October 7–10 2008), Lighting Engineering Society of Slovenia, pp. 165–172. ISBN 978-961-248-127-8.
- [24] SCHRÖDER, I., POP, H. F., MENZEL, W., AND FOTH, K. A. Learning grammar weights using genetic algorithms. In *RANLP-2001 “Recent Advances in NLP”* (Tzigov Chark, Bulgaria, September 5–7 2001), pp. 235–239. ISBN 954-90906-1-2.
- [25] SCHRÖDER, I., POP, H. F., MENZEL, W., AND FOTH, K. A. Learning the constraints weights of a dependency grammar using genetic algorithms. In *EUROGEN 2001, “Evolutionary Methods for Design, Optimisation and Control with Applications to Industrial Problems”* (Athens, Greece, September 19–21 2001), pp. 49.1–49.2.
- [26] TÂMBULEA, L., AND POP, H. F. Cooperative model for web sites authoring. In *Annals of the “Tiberiu Popoviciu” Seminar. Supplement: International Workshop in Collaborative Systems* (Babeş-Bolyai University, Cluj-Napoca, Romania, 2006), pp. 329–336. ISSN 1584-4536.
- [27] VESCAN, A., AND POP, H. F. The component selection problem as a constraint optimization problem. In *Software Engineering Techniques in Progress. The 3rd IFIP TC2 Central and East European Conference on Software Engineering Techniques CEE-SET 2008* (Wroclaw, Poland, 2008), Wroclaw University of Technology, pp. 208–211.

III National Papers

III.1 Papers in national journals

- [1] DUMITRESCU, D., AND POP, H. F. Algorithms for convex decomposition of finite fuzzy partitions. *Fuzzy Systems & A.I. Magazine* 4, 2–3 (1995), 5–12.
- [2] FRENȚIU, M., DUMITRESCU, D., PÂRV, B., TÂMBULEA, L., AND POP, H. F. Algoritmi utili existenți în rețeaua universității (useful algorithms existing in the university computer network). *Babeş-Bolyai University, Faculty of Mathematics and Computer Science Research Seminars, Seminar on Computer Science, Preprint*, 2 (1999), 111–122.
- [3] FRENȚIU, M., AND POP, H. F. A study of licence examination results using fuzzy clustering techniques. *Babeş-Bolyai University, Faculty of Mathematics and Computer Science Research Seminars, Seminar on Computer Science, Preprint* (2001), 99–106.
- [4] POP, F., AND POP, H. F. Programe de calcul pentru instalațiile electrice ale clădirilor (software for electrical installations in buildings). *Instalații în Construcții*, 3–4–5 (1990), 64–67.
- [5] POP, F., AND POP, H. F. Aspecte actuale privind proiectarea asistată de calculator a sistemelor de iluminat electrice (actual aspects concerning the computer assisted design of electrical lighting systems). *Energetica* 41, 2-B (March–April 1993), 60–66.
- [6] POP, F., POP, H. F., AND BEU, D. Interior Lighting Design — computer programs for calculus and graphic representation. *Acta Technica Napocensis, Series Construcții - Arhitectură* 35 (1992), 99–109.
- [7] POP, F., POP, H. F., BEU, D., AND CIUGUDEAN, C. Iluminat eficient energetic în locuințe. *Revista Română de Informatică și Automatică* 18, 3 (2008), 101–112. ISSN 1220-1758.

- [8] POP, F., POP, H. F., AND ORBAN, S. Architectural lighting, chromaticity and environment. *Ingineria Iluminatului* 12 (2003), 13–18. Technical University of Cluj-Napoca, Tempus-Phare CME-03551-97 Program. ISSN 1454-5837.
- [9] POP, H. F. The future of Computer Science in the current context of the Romanian society. *Babeş-Bolyai University, Faculty of Mathematics and Computer Science Research Seminars, Seminar on Computer Science, Preprint*, 2 (1997), 7–10.
- [10] POP, H. F. Using ActiveX technologies for providing Internet accessibility to existing computational applications. *Babeş-Bolyai University, Faculty of Mathematics and Computer Science Research Seminars, Seminar on Computer Science, Preprint*, 2 (1998), 1–14.
- [11] POP, H. F. Reţeaua Internet, mijloc de comunicare si sursă de informare (internet, communication medium and information source). *Ingineria Iluminatului* 1 (1999), 29–34. Technical University of Cluj-Napoca, Tempus-Phare CME-03551-97 Program. ISSN 1454-5837.
- [12] POP, H. F., AND DUMITRESCU, D. Fuzzy hierarchical classification with adaptive prototypes. *Fuzzy Systems & A.I. Magazine* 1, 1 (1991), 17–20.
- [13] POP, H. F., AND POP, F. LSD — Lighting Systems Design — un program pentru proiectarea sistemelor de iluminat (LSD — Lighting Systems Design — software for designing of lighting systems). *Ingineria Iluminatului* 4 (2000), 74–79. Tehnical University of Cluj-Napoca, Tempus-Phare CME-03551-97 Program. ISSN 1454-5837.
- [14] POP, H. F., AND POP, L. G. Scientific education: the logic denominator. *Didactica Mathematica (Formerly Proceedings of the National Seminar “Didactica Matematicii”)* 25, 2 (2007), 75–84.
- [15] POP, M., POP, H. F., AND POP, F. Appraisal of indoor lighting systems quality. *Ingineria Iluminatului* 22 (2008), 37–48. Technical University of Cluj-Napoca, ISSN 1454-5837.

III.2 Papers in proceedings of national conferences

- [1] COROIU, A. M., GĂCEANU, R. D., AND POP, H. F. Ordinal data analysis using agglomerative clustering algorithms. In *Knowledge Engineering Principles and Techniques 2015, Book of Abstracts* (Cluj-Napoca, Romania, July 2 2015), M. Frenţiu, H. F. Pop, and S. Motogna, Eds., Babeş-Bolyai University, pp. 240–246.
- [2] GEANTĂ, M., POP, H. F., AND GLADWIN, R. Echilibre în soluţii apoase. Programe vizuale sub Delphi (Equilibria in water solutions. Visual programs in Delphi). In *Sesiunea jubiliară “50 de ani de la înfiinţarea Facultăţii de Chimie Industrială şi Ingineria Mediului din Timişoara” (Aniversary conference “50 years from the appearance of the Faculty of Industrial Chemistry and Environmental Engineering from Timişoara”)* (Politehnic University of Timişoara, October 29 – 30 1998).
- [3] POP, F., AND POP, H. F. Aplicaţii privind proiectarea asistată de calculator a bilanţurilor energetice (applications concerning the computer aided design of the energetical balance sheets). In *Simpozionul “Instalaţii pentru construcţii şi confort ambiental (“Installations for Buildings and Ambiental Comfort” Symposium)* (Timisoara, April 2–3 1992), pp. 299–302.
- [4] POP, H. F., AND FRENȚIU, M. Detecting mistakes in students measurement projects. In *Symposium “Colocviul Academic Clujean de Informatică”* (Babeş-Bolyai University, Cluj-Napoca, Romania, June 1-2 2005), pp. 105–110.
- [5] POP, H. F., AND SÂRBU, C. Theoretical approach of Fuzzy Clustering for Chemistry. In *Sesiunea jubiliară “50 de ani de la înfiinţarea Facultăţii de Chimie Industrială şi Ingineria Mediului din Timişoara” (Aniversary conference “50 years from the appearance of the Faculty of Industrial Chemistry and Environmental Engineering from Timişoara”)* (Politehnic University of Timişoara, October 29 – 30 1998).
- [6] SÂRBU, C., AND POP, H. F. Applications of Fuzzy Clustering in Chemistry. In *Sesiunea jubiliară “50 de ani de la înfiinţarea Facultăţii de Chimie Industrială şi Ingineria Mediului din Timişoara” (Aniversary conference “50 years from the appearance of the Faculty of Industrial Chemistry and Environmental Engineering from Timişoara”)* (Politehnic University of Timişoara, October 29 – 30 1998).
- [7] TÂMBULEA, L., AND POP, H. F. A formal approach of web sites management. In *Symposium “Zilele Academice Clujene”* (Babeş-Bolyai University, Cluj-Napoca, Romania, July 5 2006), pp. 66–72.

IV Books with accredited publishers

- [1] BLAGA, P. A., AND POP, H. F. *L^AT_EX 2 ϵ* . Editura Tehnică, București, 1999. 364 pages. ISBN 973-31-1290-5.
- [2] CZIBULA, G., AND POP, H. F. *Elemente Avansate de Programare în Lisp și Prolog. Aplicații în Inteligența Artificială (Advanced Elements of Programming in Lisp and Prolog. Applications in Artificial Intelligence)*, 2 ed. Editura Albastră, Cluj-Napoca, 2012. 270 pages.
- [3] FRENȚIU, M., . . . , POP, H. F., ET AL. *Programare Pascal. Programe ilustrative. Probleme propuse (Pascal Programming. Illustrative Programs. Proposed Problems)*. Editura “Promedia Plus”, Cluj-Napoca, 1995. 16 chapters, 228 pages. Personal contribution: chapter 11, 19 pages. ISBN 973-96862-1-4.
- [4] FRENȚIU, M., AND POP, H. F. *Fundamentals of Programming*. Cluj University Press, 2006. 220 pag. ISBN 973-610-453-2.
- [5] FRENȚIU, M., POP, H. F., AND SERBAN, G. *Programming Fundamentals*. Cluj University Press, 2006. 232 pag.
- [6] HOROWITZ, O., SÂRBU, C., AND POP, H. F. *Clasificarea Rațională a Elementelor Chimice*. Editura Dacia, Cluj-Napoca, 2000. 258 pagini. ISBN 973-35-1006-8.
- [7] KÁSA, Z., AND POP, H. F. *Comunicare în Internet (Communication in Internet)*. Editura Albastră, Cluj-Napoca, 1997. 130 pages. ISBN 973-9215-63-7.
- [8] POP, H. F. *Sisteme Inteligente în Probleme de Clasificare (Intelligent Systems in Classification Problems)*. Editura Mediamira, Cluj-Napoca, 2004. 183 pages. ISBN 973-0-03718-3.
- [9] POP, H. F., AND ȘERBAN, G. *Programare în Inteligența Artificială – Limbajele Lisp și Prolog (Programming in Artificial Intelligence – Lisp and Prolog Languages)*. Editura Albastră, Cluj-Napoca, 2003. 178 pages. 1st Ed. (2003), 2nd Ed. (2004). ISBN 973-650-104-3.
- [10] 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.
- [11] SERBAN, G., AND POP, H. F. *Tehnici de Inteligență Artificială. Abordări Bazate pe Agenți Inteligenți (Artificial Intelligence Techniques. Intelligent Agents Approaches)*. Editura Mediamira, Cluj-Napoca, 2004. 144 pagini. ISBN 973-0-03717-5.
- [12] SERBAN, G., AND POP, H. F. *Elemente Avansate de Programare în Lisp și Prolog. Aplicații în Inteligența Artificială (Advanced Elements of Programming in Lisp and Prolog. Applications in Artificial Intelligence)*. Editura Albastră, Cluj-Napoca, 2006. 270 pages. ISBN 973-650-172-8.
- [13] POP, F., . . . , POP, H. F., ET AL. *Managementul Instalațiilor de Iluminat — Curs postuniversitar (The Management of Lighting Installations — Postgraduate Course)*. Editura Mediamira, Cluj-Napoca, 1998. 12 chapters, 210 pages. Personal contribution: Chapter 11, “Internet și accesul la informație (Internet and the access to information)”, pp. 140–148. ISBN 973-9358-27-6.

V Other various items

V.1 Papers in other publications

- [1] DUMITRESCU, D., LOWY, D. A., ONICIU, L., AND POP, H. F. Classification procedure for selectivity control in acrylonitrile electroreduction. In *The 42nd Meeting of International Society of Electrochemistry* (Montreux, 1991).
- [2] DUMITRESCU, D., AND POP, H. F. Algorithms for convex decomposition of finite fuzzy partitions. In *BUFSA’94, Third BUFSA Conference on Fuzzy Logic and Artificial Intelligence* (Bucharest, October 27–29 1994).

- [3] LOWY, D. A., DUMITRESCU, D., ONICIU, L., POP, H. F., AND KISS-SZETSI, S. Classification procedure for selectivity control in acrylonitrile electroreduction. In *The 7th International Forum Process Analytical Chemistry (Process Analysis & Control) - IFPAC-SM* (Houston (Galveston), Texas, January 26–27 1993). Abstract no. 35.
- [4] LOWY, D. A., DUMITRESCU, D., POP, H. F., AND ONICIU, L. Mathematical methods for quality control in propionitrile electrosynthesis. In *The 8th International Forum Process Analytical Chemistry (Process Analysis & Control) - IFPAC-SM* (Houston (Montgomery), Texas, January 24–26 1994).
- [5] POP, H. F. Implementarea unor metode de clasificare ierarhică cu mulțimi nuanțate (implementation of some methods of hierarchical clustering with fuzzy sets). In *Buletin de Informare Tehnică* (Sinaia, August 1989).
- [6] POP, H. F., AND DUMITRESCU, D. Fuzzy hierarchical clustering with adaptive prototypes. In *BUFSA'90, Second International Symposium on Fuzzy Partitions* (Iași, October 24–27 1990).
- [7] POP, H. F., AND MUȘATESCU, S. Program de identificare a obiectelor pe baza unei mulțimi de attribute asociate (program of objects identification based on the set of associated attributes). In *Buletin de Informare Tehnică* (Bușteni, August 1988), pp. 127–129.

V.2 Presentations at national conferences without proceedings volume

- [1] DUMITRESCU, D., LAZAROVICI, G., AND POP, H. F. Fuzzy clustering în arheologie (fuzzy clustering in archaeology). In *Simpozionul de Informatică Aplicată în științele Socio-Umane (Symposium of Computer Science Applied in Socio-Human Sciences)* (Cluj-Napoca, September 1989).
- [2] DUMITRESCU, D., LAZAROVICI, G., AND POP, H. F. Aplicații ale clasificării multidimensionale în arheologie (applications of the multidimensional clustering in archaeology). In *Al Treilea Simpozion Național de Arheometrie (Third National Symposium of Archaeometry)* (Cluj-Napoca, June 14–15 1990).
- [3] DUMITRESCU, D., AND POP, H. F. Algoritmi de clasificare adaptivă (adaptive clustering algorithms). In *Simpozionul "Informatica și Aplicațiile Sale", Zilele Academice Clujene ("Computer Science and its Applications" Symposium, Cluj Academic Days)* (Cluj-Napoca, October 12–17 1992).
- [4] DUMITRESCU, D., AND POP, H. F. Clasificare nuanțată calitativă în arheologie (qualitative fuzzy clustering in archaeology). In *Al Cincilea Simpozion Național de Arheometrie (Fifth National Symposium of Archaeometry)* (Cluj-Napoca, March 27–28 1992).
- [5] DUMITRESCU, D., AND POP, H. F. O nouă clasă de algoritmi de instruire folosind rețele neuronale (a new class of training algorithms using neural networks). In *Simpozionul "Informatica și Aplicațiile Sale", Zilele Academice Clujene ("Computer Science and its Applications" Symposium, Cluj Academic Days)* (Cluj-Napoca, October 25–30 1993).
- [6] MEDELEȚ, F., AND POP, H. F. Clasificarea nuanțată a descoperirilor monetare din epoca Latene în Banat (fuzzy clustering of monetary discoveries of latene epoche in Banat). In *Al Patrulea Simpozion Național de Arheometrie (Fourth National Symposium of Archaeometry)* (Cluj-Napoca, September 19–20 1991).
- [7] PAKI, A., AND POP, H. F. Baze de date pentru clasificarea și datarea inscripțiilor (databases for clustering and dating of inscriptions). In *Al Patrulea Simpozion Național de Arheometrie (Fourth National Symposium of Archaeometry)* (Cluj-Napoca, September 19–20 1991).
- [8] POP, F., BEU, D., AND POP, H. F. Reprezentarea computerizată a planurilor de instalații electrice. In *Simpozionul "Progresele în științele Tehnice", Zilele Academice Clujene* (Cluj-Napoca, 12–17 Octombrie 1992).
- [9] POP, H. F. Clasificatori nuanțați supervizați (supervised fuzzy classifiers). In *Simpozionul "Informatica și Aplicațiile Sale", Zilele Academice Clujene ("Computer Science and its Applications" Symposium, Cluj Academic Days)* (Cluj-Napoca, October 17–29 1994).
- [10] POP, H. F. Algoritmul de regresie nuanțată (the fuzzy regression algorithm). In *Simpozionul "Informatica și Aplicațiile Sale", Zilele Academice Clujene ("Computer Science and its Applications" Symposium, Cluj Academic Days)* (Cluj-Napoca, October 26–37 1995).

- [11] POP, H. F., AND DUMITRESCU, D. Clasificare în bazele de cunoștințe și formarea conceptelor (classification in knowledge basis and in formation of concepts). In *13th CONDINF Symposium* (Cluj-Napoca, June 1989).
- [12] POP, H. F., AND DUMITRESCU, D. Problema validității claselor (cluster validity problem). In *Simpozionul "Informatica și Aplicațiile Sale", Zilele Academice Clujene ("Computer Science and its Applications" Symposium, Cluj Academic Days)* (Cluj-Napoca, October 14–19 1991).
- [13] POP, H. F., AND DUMITRESCU, D. Algoritmi pentru descompunerea convexă a partițiilor nuanțate finite (algorithms for convex decomposition of finite fuzzy partitions). In *Simpozionul "Informatica și Aplicațiile Sale", Zilele Academice Clujene ("Computer Science and its Applications" Symposium, Cluj Academic Days)* (Cluj-Napoca, October 17–29 1994).
- [14] POP, H. F., AND SOSA, D. Program de calcul pentru stabilirea necesarului de căldură (computer program for establishing the necessary of heat). In *Simpozionul științific de Construcții Climaterice și Balneare (Scientific Symposium of Balnear and Climateric Buildings)* (Oradea, October 27–28 1989).

V.3 Didactical notes for courses

- [1] FRENȚIU, M., . . . , POP, H. F., ET AL. *Bazele Informaticii, Culegere de Probleme (The Basis of Computer Science, Problem Book)*. Babeș-Bolyai University, Cluj-Napoca, 1992. 16 chapters, 187 pages. Personal contribution: chapter 11, 20 pages.
- [2] KÁSA, Z., AND POP, H. F. *Rețele de Calculatoare II (Computer Networks II)*. Centrul de Formare Continuă și Învățământ la Distanță, Universitatea Babeș-Bolyai, Cluj-Napoca, 1999. 130 pages.
- [3] POP, F., GÂRBU, A., MOCA, M., COSTEA, V., CATANĂ, D., AND POP, H. F. *Proiectarea Instalațiilor Electrice de Joasă Tensiune (Designing of the Low-Voltage Electrical Installations)*. Institutul Politehnic, Cluj-Napoca, 1990. 16 chapters, 4 appendices, 334 pages. Personal contribution: Chapter 15, "Programe de calcul pentru instalații electrice (Software for Electrical Installations)", 24 pages.
- [4] POP, H. F. *Programare Funcțională și Logică (Functional and Logic Programming)*. Babeș-Bolyai University, Cluj-Napoca, 1998. 149 pages.
- [5] POP, H. F. *Inteligență Artificială – Note de curs (Artificial Intelligence – Lecture notes)*. Centrul de Formare Continuă și Învățământ la Distanță, Universitatea Babeș-Bolyai, Cluj-Napoca, 1999. 1st Ed. (180 pages).
- [6] POP, H. F., AND ȘERBAN, G. *Inteligență Artificială – Note de curs (Artificial Intelligence – Lecture notes)*. Centrul de Formare Continuă și Învățământ la Distanță, Universitatea Babeș-Bolyai, Cluj-Napoca, 2000–2003. 2nd Ed. (2000, 210 pages), 3rd Ed. (2001, 223 pages), 4th Ed. (2002, 190 pages), 5th. Ed. (2003, 190 pages).

V.4 Technical reports

- [1] POP, H. F. Developing software: programming for what? Tech. Rep. TR-HH-6-99, Natural Language Research Group, Department of Computer Science, University of Hamburg, June 1999.
- [2] POP, H. F. Fuzzy Clustering — selected papers. Tech. Rep. , Natural Language Division, Department of Computer Science, University of Hamburg, November 1999.
- [3] POP, H. F. A short introduction to SunOS. Tech. Rep. TR-HH-7-99, Natural Language Division, Department of Computer Science, University of Hamburg, June 1999.
- [4] POP, H. F. Self-Organizing Map in text mining. Tech. Rep. , Natural Language Division, Department of Computer Science, University of Hamburg, June 2000.
- [5] POP, H. F. A short introduction to MacOS. Tech. Rep. , Natural Language Division, Department of Computer Science, University of Hamburg, July 2000.
- [6] POP, H. F. A Soft-Computing approach to NLP. Tech. Rep. , Natural Language Division, Department of Computer Science, University of Hamburg, May 2000.
- [7] POP, H. F. *Indrumar de utilizare L^AT_EX (L^AT_EX users' memo)*. Department of Computer Science, Babeș-Bolyai University, Cluj-Napoca, June 1993. Small series.

VI Software Products

- [1] POP, H. F. Software Package for Design and Analysis of Low Voltage Electrical Installations, 1990–1994.
- [2] POP, H. F. SAADI — System for Automatic Analysis of Data and for their Interpretation, 1991–1995. Software for characteristics reduction, fuzzy clustering, fuzzy regression, fuzzy training and fuzzy cross-classification. Available under MS-DOS.
- [3] POP, H. F. HPTEX — MS-DOS Turbo-Vision like text editor with a user-friendly \LaTeX interface, 1994–1995.
- [4] POP, H. F. LIGHT — Software package for interior and exterior lighting design, 1994–1995.
- [5] POP, H. F. HPTEXW — Windows text editor with a user-friendly \LaTeX interface, 1995.
- [6] POP, H. F. SAADIW — System for Automatic Analysis of Data and for their Interpretation, 1996–1998. Software for characteristics reduction, fuzzy clustering, fuzzy regression, fuzzy training and fuzzy cross-classification. Available under Windows.
- [7] POP, H. F. SADIC for wxWindows — System for Automatic Data Investigation and Classification, 1999–2011. Software for characteristics reduction, fuzzy clustering, fuzzy regression, fuzzy training, fuzzy cross-classification and multivariate fuzzy analysis, available under Windows, Unix/Linux, MacOS.
- [8] POP, H. F. SADIC for wxWidgets — System for Automatic Data Investigation and Classification, 2012–2016. Software for characteristics reduction, fuzzy clustering, fuzzy regression, fuzzy training, fuzzy cross-classification and multivariate fuzzy analysis, available under Windows, Unix/Linux, MacOS.
- [9] POP, H. F., AND GEANTĂ, M. CHAN — Didactical demonstrative software package for applications of Analytical Chemistry, 1998.

VII Discursive reviews

For Acta Applicandae Mathematicae Survey, an International Journal on Applying Mathematics and Mathematical Applications

- [1] BRANHAM, JR., R. L. *Scientific Data Analysis, An Introduction to Overdetermined Systems*. Springer Verlag, 1990.
- [2] CHAUVIN, B., FLAJOLET, P., GARDY, D., AND MOKKADEM, A., Eds. *Mathematics and Computer Science II: Algorithms, Trees, Combinatorics and Probabilities*. Birkhäuser Verlag, Basel-Boston-Berlin, 2002.
- [3] DVORAK, I., AND HOLDEN, A. V. *Mathematical Approaches to Brain Functioning Diagnostics*. Manchester University Press, 1991.
- [4] ERNEST, P., Ed. *Constructing Mathematical Knowledge: Epistemology and Mathematical Education*. The Falmer Press, 1994.
- [5] GOLES, E., AND MARTINEZ, S., Eds. *Cellular Automata, Dynamical Systems and Neural Networks*. Kluwer Academic Publishers, 1994.
- [6] GRABISCH, M., NGUYEN, H. T., AND WALKER, E. A. *Fundamentals of Uncertainty Calculi with Applications to Fuzzy Inference*. Kluwer Academic Publishers, 1995.
- [7] RODABAUGH, S. E., KLEMENT, E. P., AND HOHLE, U. *Applications of Category Theory to Fuzzy Subsets*. Kluwer Academic Publishers, 1991.
- [8] VAN DALEN, D. *Logic and Structure*, Third ed. Springer Verlag, 1994.
- [9] YUHAS, B., AND ANSARI, N., Eds. *Neural Networks in Telecommunications*. Kluwer Academic Publishers, 1994.

VIII Activity during studies

VIII.1 Theses

- [1] POP, H. F. Adaptive prototypes in fuzzy clustering. Master's thesis, Department of Computer Science, Babeş-Bolyai University, Cluj-Napoca, 1991.
- [2] POP, H. F. *Intelligent Systems in Classification Problems*. PhD thesis, Department of Computer Science, Babeş-Bolyai University, Cluj-Napoca, 1995.

VIII.2 Prizes at programming contests

- [1] "Grigore Moisil" Programming Contest. Iaşi, April 1988. Fourth Prize.
- [2] National Computers Contest. Craiova, April 1988. Special Prize.
- [3] "Grigore Moisil" Programming Contest. Iaşi, April 1989. Second Prize.
- [4] "Grigore Moisil" Programming Contest. Iaşi, April 1991. Third Prize.

VIII.3 Prizes at scientific conferences or national computer camps

- [1] National Computer Camp. Buşteni, August 1988. Fourth Prize.
- [2] National Computer Camp. Sinaia, August 1989. Fourth Prize.
- [3] Students Scientific Conference, University Level. Cluj-Napoca, May 1989. Second Prize.
- [4] National Students Computer Science Conference. Iasi, April 1990. Second Prize.
- [5] National Students Computer Science Conference. Iaşi, April 1991. Second Prize.

VIII.4 Conferenced papers

- [1] POP, H. F. Fuzzy hierarchical clustering methods (Romanian). In *Students Scientific Conference* (Cluj-Napoca, May 1989).
- [2] POP, H. F. Hierarchical simultaneous clustering with fuzzy sets (Romanian). In *The 14th National Students Computer Science Conference* (Iaşi, April 1989).
- [3] POP, H. F. Prototypes in fuzzy clustering (Romanian). In *The 15th National Students Computer Science Conference* (Iaşi, April 1990).
- [4] POP, H. F. Fuzzy hierarchical clustering with adaptive prototypes (Romanian). In *The 16th National Students Computer Science Conference* (Iaşi, April 1991).
- [5] POP, H. F., AND INDOLEANU, R. Computer programs for electrical installations (Romanian). In *The 19th National Students Conference* (Timişoara, November 1988).