

CURRICULUM VITAE

Name: **Ivan Koychev**

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EDUCATION

- 1998 Ph.D. Degree in Computer Science - Institute of Mathematics and Informatics at the Bulgarian Academy of Sciences
- 1991 Diploma courses in Economics and Int. Business Management, University of Delaware - Bulgarian Coalition, Sofia.
- 1988 M.Sc. Degree in Computer Science - Faculty of Mathematics and Computer Science at the University of Sofia.
- 1981 Graduated with Cum Laude Mathematical High School, Veliko Tarnovo, Bulgaria. Qualification: computer programmer.

RSERARCH INTERESTS: Machine Learning, Information Retrieval, Data/Text Mining, User Modelling, Artificial Intelligence

POSITIONS HELD

- 09.06 – present Associated Professor in Department of Software Engendering, Faculty of Mathematics and Informatics, University of Sofia “St. Kliment Ohridski”. Teaching courses: Artificial Intelligence; Information Retrieval; Data Mining
- 03.05 – present Senior Research Associate, vise-chair of IS department, Institute of Mathematics and Informatics - BAS, Sofia. (since 10.06 - part-time).
- 04.02 – 02.05 Research Fellow - Smart Web Technologies Centre, School of Computing at The Robert Gordon University, St. Andrew Street., Aberdeen, AB25 1HG, UK.
- 03.99 – 02.02 PostDoc Fellowship – Institute for Applied Information Technology at GMD – German National Centre for Information Technologies, Sankt Augustin, Germany. In 2001 merged with Fraunhofer Institutes.
- 09.89 – 02.99 Researcher Student/Fellow - Department of Computer Science, Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, Sofia, Bulgaria.

PART-TIME AND CONTRACT JOBS

- 2005 - 2006 Data mining consultant for Retail Analytics Ltd, Manchester.
- 2000, 2001 External independent IT expert for two projects of the Bulgaria National Program BG9910 funded by the European Commission within the framework of the PHARE programme.
- 1998 Part of the team of experts created Bulgarian National Strategy for development of the Information Society.
- 1994 - 1999 Adjunct Lecturer at the New Bulgarian University, Sofia. I have taught courses in areas of Microcomputer Office Applications, Data Analysis and Software Engineering.
- 1992 - 1993 Adjunct teacher in Informatics at the College for Classical Language and Cultures.

PROFESIONAL MEMBERSHIP

- 2006 – 2007 BCS Artificial Intelligence Specialist Group
- 2003 – 2006 BCS Information Retrieval Specialist Group – Committee member (2003-2005)
- 1997 – current Association for Development of the Information Society - Committee member (97-03)
- 1996 - 1998 Borland Society - Bulgaria
- 1991 - 1996 Bulgarian Society for Cognitive Science

PROGRAMME COMMITTEE MEMBERSHIP AND JOURNAL REVIEWS

- 2010 Track Chair: Intelligent Content and Semantics on 2nd International Conference on Software, Services & Semantic Technologies, September 11-12, 2010 Varna, Bulgaria.
- 2009 Track Chair: Intelligent Content and Semantics on International Conference on Software, Services & Semantic Technologies, October 28-29, 2009 Sofia, Bulgaria.
- 2009 Organiser of S3T'2009 Workshop: The Future of E-Books, October 30, 2009, Sofia, Bulgaria
- 2006, 2007, 2008, 2009, 2010 Program committee member of International Conference on Innovative Techniques and Applications of Artificial Intelligence, Cambridge, UK, Organised by BCS SGAI.
- 2006, 2009, 2010 Program committee member: National conference “Education in Information Society”, Plovdiv.
- 2007 Program Committee member of e-Society 2008 Conference, April 9-12, 2008, Algarve, Portugal;
- 2004 Non PC member reviewer for IEEE International Conference of Data Mining 2004;
- 2005 Reviewer for journal of Computers & Industrial Engineering;
- 2002 Reviewer for Applied Artificial Intelligence, Volume 17, Numbers 8-9, September-October 2003, specia issue on Artificial Intelligence for Cultural Heritage and Digital Libraries;

SELECTED PROJECTS

- 2009 - present. SmartBook – is a project Funded by the Bulgarian NSF, which aims to develop an intelligent, community-centred framework for authoring and experiencing of a new generation of e-books that are evolving, highly interactive, adaptable, intelligent, and furnished with a rich set of collaborative authoring and reading support services.
- 2009 - present Share.TEC - "Sharing Digital Resources in the Teaching Education Community", a project (2008 to 2011) co-funded by the European Community's eContentPlus programme.
- 2008 - present SISTER: Strengthening the IST Research Capacity of University of Sofia The main goal is to develop a Leading Centre in research, innovation and training in the area of ICT and more specifically in Software and Services, Networked Enterprises, Intelligent Content and Semantics and Technology-Enhanced Learning.
- 2007 TENCompetence – EU FP6-IST funded project - Knowledge resources sharing and management component, development of services and ontologies.
- 2005 – 2006 PRIME – an EU FP6-IST funded project that aiming development of a simulation game for training in strategic manufacturing management. For this purpose in the framework of the project, a virtual business environment that uses multi-agent based simulation models is developed.
- 2003 – 2005 Personalised e-mail Manager - the aim of the project is to develop an intelligent agent that will act as a personalized email manager. The agent will learn an evolving model of user's e-mail management preferences from unobtrusive observation of their behaviour. Novelty approaches for feature selection and generalisation have been developed in the framework of the project. External funding obtained for the project from Carnegie Trust and RGU Research and Development Initiative. Co-investigator: Dr N. Wiratunga.
- 2002 – 2005 ProfileSkim is a novel tool for content-based browsing and skimming of documents. External funding obtained for the project from Scottish Enterprises, Aberdeen City Council. The project has been lead by Prof D. J. Harper. Further, in collaboration with Lemur Consulting Ltd we developed a commercial product ProfileSkim - an Adobe Acrobat add-in tool assisting in reading long documents (<http://smartweb-products.co.uk/>) British Computer Society Technology Award Medallists in the "Applications" category for 2005.
- 2002 – 2005 Smart Web Technologies Centre: As a research fellow with the Smart Web Technologies centre, I have been actively involved in the establishment and management activities of the centre. I am a member of the Management Group and the Technical Advisory Group of the Centre. As editor of the SmartNet Newsletter, I have been actively involved in founding the SmartWeb Networking Forum (SmartNet).
- 2002 - 2002 AmbieSense - an EU FP5-IST funded project, which is aim to provide mobile users with context aware and personalised services. In spring 2002 I contributed to the overall design of the user modelling components.
- 2001 LISTEN - Augmenting everyday environments through interactive sounds capes. In this EU FP5-IST funded project. I was responsible for the designing and implementation of a user-modelling component for a virtual-reality museum application. Collaborative and content-based approaches were used for personalising the presentation content.
- 1999 - 2000 LaboUr - Learning about Users. The project investigated the application of Machine Learning methods in User Modelling. An approach to learning user interests was developed within the framework of the project that borrows from findings in the area of Human-Computer Interaction, Machine Learning, Information Retrieval and User Modelling. The project was led by Prof A. Kobsa.
- 1997 - 1998 Modelling of Cooperative Activities in the Process: Time-Development Document Creation. Funded by the Bulgarian National Scientific Fund. Led by Prof P. Barnev.
- 1996 - 1997 Computer Corpus of Epigraphic Inscriptions in Bulgaria from the Late Antiquity Period. Funded by the Bulgarian National Scientific Fund. Co-investigator with M. Dobreva.
- 1995 - 1996 Head of the team, who designed and developed the FolkExpert: a large database system for collection and archiving of multimedia folk materials from the Balkan region. Funded by UNESCO. Awarded with Certificate of Excellence from Borland Society, Bulgaria.
- 1994 - 1995 Computer Modelling of Paleographic Data and Activities. Funded by the Bulgarian National Scientific Fund. Co-investigator with Dr M. Dobreva.
- 1992 - 1993 Using Machine Learning Methods for Credit Risk Evaluation. Funded by the Bulgarian National Scientific Fund. Co-investigator with Dr K. Kirova.
- 1991 – 1998 Qualitative Prediction of Sequences of Events using inductive learning algorithms. The basic hypothesis was that the prediction problem that requires part-to-whole induction could be transformed into an instance-to-class induction problem. A data-mining tool was designed and developed that can discover and utilise Decision Trees and Qualitative Prediction Rules. The tool is an add-ins for MS-Excel. Experiments for applying the fool in financial time series analysis and forecasting ware conducted. PhD project.
- 1987 - 1988 Agriculture Expert System. My contribution in this project was design and implementation of a prototype knowledge management system for an expert system. MSc Project.
- 1980 - 1981 A software package for linear optimisation. - presented in the pupil section at the National Conference of the Union of Bulgarian Mathematicians in 1981 (Second Award for pupil project)