

Curriculum Vitae

Name Farshad Hakimpour

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Language Skills Fluent English and some knowledge of German.

Education Ph.D. Degree

Sep. 99 to Jun. 03, University of Zurich, Switzerland.

Thesis topic: 'Using Ontologies to Resolve Semantic Heterogeneity for Integrating Spatial Database Schemata'

M.Sc. Degree (awarded with distinction)

Oct. 95 to Nov. 96, International Institute for Geo-Information Science and Earth Observation (ITC), The Netherlands

Thesis topic: 'Metrics for Logical consistency in spatial relations'

Diploma (awarded with distinction)

Jan. 93 to Dec. 93, International Institute for Geo-Information Science and Earth Observation (ITC), The Netherlands.

Subject: Integrated Map and Geoinformation Production.

B.Sc. Degree

Nov. 84 to Apr. 90, Teheran University, Iran.

Subject: Computer Engineering with Software Engineering Specialization.

Publications

- "*Event Visualization in a 3D Environment*", L. Deligiannidis, F. Hakimpour and A. Sheth, Int'l Conf. on Human System Interactions, 2008, pages 158-164
- "*Supporting Complex Thematic, Spatial and Temporal Queries over Semantic Web Data*", M. Perry, A. Sheth, F. Hakimpour, P. Jain, in Proc. of 2nd Int'l Conf. on Geospatial Semantics (GEOS '07), Springer LNCS 4853, pages 228-246.
- "*Spatiotemporal-Thematic Data Processing in Semantic Web*", F. Hakimpour, B. Aleman-Meza, M. Perry, A. Sheth. in *The Geospatial Web*, Springer-Verlag, 2007, pages. 79-89.
- "*Analyzing Theme, Space, and Time: An Ontology-based Approach*", M. Perry, A. P. Sheth, I. B. Arpinar, F. Hakimpour. in *Encyclopedia of Geoinformatics*, Hassan A. Karimi (Ed), Idea-Group Inc., 2007

- “*Analyzing Theme, Space, and Time: An Ontology-based Approach*”, M. Perry, F. Hakimpour, A. Sheth. in Proc. of the 14th ACM Int’l Symp. on Advances in Geographic Information Systems ACM-GIS’06, ACM Press, pp. 147-154, 2006.
- “*Data Processing in Space, Time and Semantics Dimensions*”, F. Hakimpour, B. Aleman-Meza, M. Perry, A. Sheth. in Terra Cognita Workshop - Directions to the Geospatial Semantic Web, USA, Nov., 2006.
- “*Semantic Descriptions of Web Services: A Technical Perspective*”, F. Hakimpour, S. Cong and D. E. Damm. Chapter 2, in Advances in Electronic Business Series, Volume II., Sep. 2006, pp. 31-73.
- “*Semantic WS-Agreement Partner Selection*”, N. Oldham, K. Verma, A. Sheth and F. Hakimpour, Proc. of 15th International World Wide Web Conference (www2006), pp. 697-706.
- “*Semantic Web Service Composition in IRS-III: The Structured Approach*”, F. Hakimpour, D. Sell, L. Cabral, J. Domingue and E. Motta. In the Proc. of the 7th Int’l IEEE Conf. on E-Commerce Technology (CEC’05), Germany, 2005, pp. 484-487.
- “*A Semantic Web based Architecture for Analytical Tools*”, D. Sell, L. Cabral, E. Motta, J. Domingue, F. Hakimpour and R. Pacheco. In the Proc. of the 7th Int’l IEEE Conference on E-Commerce Technology (CEC’05); Germany, 2005, pp. 347-354.
- “*Resolution of Semantic Heterogeneity in Database Schema Integration Using Formal Ontologies*”, F. Hakimpour and A. Geppert. In the Journal of Information Technology and Management, 6(1), Special Issue on Universal Enterprise Integration, Kluwer, 2005, pp. 97-122.
- “*Integration of OWL-S into IRS-III*”, F. Hakimpour, J. Domingue, E. Motta, L. Cabral and Y. Lei, AKT Workshop on Semantic Web Services, AKT-SWS04, 2004, pp. 38-41.
- “*Interactive Composition of WSMO-based Semantic Web Services in IRS-III*”, D. Sell, F. Hakimpour, J. Domingue, E. Motta and R. Pacheco, AKT Workshop on Semantic Web Services, 2004, pp. 13-16.
- “*IRS-III: A Platform and Infrastructure for Creating WSMO-based Semantic Web Services*”, J. Domingue, L. Cabral, F. Hakimpour, D. Sell and E. Motta, in: WSMO Implementation Workshop, 2004.
- “*Approaches to Semantic Web Services: An Overview and Comparisons*”, L. Cabral, J. Domingue, E. Motta, T. Payne and F. Hakimpour, in: 1st European Semantic Web Symposium, 2004, Springer-Verlag , pp. 225-239
- “*Operators and Classification for Data Mapping in Semantic Integration*”, A. Dobre, F. Hakimpour and K. R. Dittrich, in: the Proc. of The 22nd Int’l. Conf. on Conceptual Modelling (ER2003), Springer-Verlag, pp. 534-547

- “*Translating and Searching Service Descriptions Using Ontologies*”, D. Damm, F. Hakimpour and A. Geppert, to appear in: Proc. of the 15th Conf. on Advanced Information Systems Engineering (CAISE'03), Springer-Verlag, pp. 308-323.
- “*Global Schema Generation using Formal Ontologies*”, by F. Hakimpour and A. Geppert, in: the proc. of the 21st Int'l Conf. on Conceptual Modelling (ER2002), Springer-Verlag, pp.307-321.
- “*Resolving Semantic Heterogeneity in Schema Integration: an Ontology Based Approach*”, by F. Hakimpour and A. Geppert. In the proc. of the Int'l Conf. on Formal Ontology in Information Systems (FOIS-2001), ACM Press, pp. 297-308.
- “*Using Ontologies for Resolution of Semantic Heterogeneity in GISs*” by F. Hakimpour and S. Timpf. In proc. of the 4th AGILE Conf., April 2001, pp.385-395.
- “*Evaluation of Logical Consistency in Spatial Relations*”, by F. Hakimpour, In: Proc. of Int'l Cartographic Conf., June (Winner of a travel award from International Cartographic Association).

Employment

Department of Surveying and Geomatics Engineering, Tehran University, Assistant Professor, (Since Sep. 08)

Pars Industrial Control Machines Co., Chief Technical Officer (Mar. 07 to Sep. 08)

Large Scale Distributed Information Systems (LSDIS) lab., University of Georgia, Research associate (Oct. 05 – Dec. 06). Research in domain of Semantic Web on SemDis project. Analysis of temporal and spatial information along semantic knowledge in an integrated environment with a focus on event analysis.

Knowledge Media Institute (KMi), The Open University, Research Fellow (Oct. 03 - Dec. 04). Research in domain of Semantic Web Services. Further extension of IRS system (<http://kmi.open.ac.uk/projects/irs/>) to import and support OWL-S service description, and developing its Web service composition model.

National Cartographic Centre of Iran (Jul. 03 – Sep. 03). Consulting the GIS department on change of National Topographic Database to comply with the Open GIS Consortium (OGC) specifications and a three weeks course on Oracle Spatial module.

University of Zurich, Research Assistant (Jun. 99 - June 03). Working on MIGI project that resulted in my PhD(www.ifi.unizh.ch/dbtg/Projects/MIGI/), publishing papers, project reports; conference and journal paper review; administration of Oracle database for research and student projects; testing solutions for integration of MS-Windows into a UNIX environment and supporting a VMWare solution by Linux.

National Cartographic Centre of Iran (Jul. 92 - May 99)

Working on National DGPS Network Project. Head of Computer Centre (Oct. 96 to Aug. 98). Joint GIS project for Tehran Regional Power Company for setting up a local GIS. Giving lectures at the NCC's college of mapping and cartography (courses on programming - Java) and at Azad University – south branch (courses on databases and Geographic Information Systems).

Defence Ministry, Data processing officer (Oct. 90 - Jul. 92,). Design, implementation and maintenance of information systems in several projects. Design and implementation of financial systems for a legal cases. Design and implementation of a library information system. Teaching introductory computer courses.