

Curriculum Vitae: Ana Meštrović

CONTACT INFORMATION University of Rijeka
Department of Informatics
Radmile Matejčić 2
HR-51000, Rijeka, Croatia

phone:+385 51 584-716
fax:(+385)51-584-700
mail: amestrovic [at] uniri.hr
web: inf.uniri.hr

EDUCATION

Ph.D., Information Science, University of Zagreb, Faculty of Organisation and Informatics, 2005 - 2009.

Thesis Topic: *F-logic as a mechanism for lattice modelling of semistructured data manipulation and concept analysis*. Supervisor: Mirko Čubrilo.

M.Sc., Information Science, University of Zagreb, Faculty of Organisation and Informatics, 2001 - 2005.

Thesis Topic: *Conceptual Modelling and Implementation of Semantic Web using F-logic*. Supervisor: Mirko Čubrilo.

B.E., Mathematics and Informatics, University of Rijeka, Faculty of Philosophy, 1997 - 2001.

Thesis Topic: *Group $PSp(4,3)$ as symmetric $(36,15,6)$ design*. Supervisor: Dean Crnković.

PROFESSIONAL POSITIONS

Associate Professor

Department of Informatics, University of Rijeka 2015 - present

Head of Chair for Network Systems

Department of Informatics, University of Rijeka 2011 - present

Assistant Professor

Department of Informatics, University of Rijeka 2010 - 2015

Senior Assistant

Department of Informatics, University of Rijeka 2009 - 2010.

Assistant

Faculty of Humanities and Social Sciences, University of Rijeka 2001 - 2009.

Programmer

Ris d.o.o. 2001 - 2003.

RESEARCH INTERESTS

Natural Language Processing, Complex Networks, Linguistic Networks, Knowledge representation, Semantic technologies, Logic programming

RESEARCH PROJECTS

Researcher

- Langnet, University of Rijeka 2014 - 2017.
- Speech Technologies, MZOS, (318-0361935-0852, 009-0361935-085) 2007 - 2013.
- Methodology of Information Systems Development, MZT (0009026), 2001 - 2006.

Management Committee Substitute

ICT COST Action IC1302: Semantic keyword-based search on structured data sources" KEYSTONE, 2013 - 2017.

PUBLICATIONS

Journal publications

A. Meštrović, S. Martinčić-Ipšić; M. Matešić; Syllabication based on maximal onset principle for Croatian/Postupak automatskoga slogovanja temeljem načela najvećega pristupa i statistika slogova za hrvatski jezik. Govor/Speech, Vol 32(1), 2015. (Accepted)

S. Beliga; A. Meštrović; S. Martinčić-Ipšić. An Overview of Graph-Based Keyword Extraction Methods and Approaches. *Journal of Information and Organizational Sciences* 39 (1), 1-20, 2015.

M. Pavlić; A. Jakupović; A. Meštrović. Nodes of knowledge method for knowledge representation. *Informatologia* (1330-0067) 46 (2013), 3; 206-214, 2013.

A. Meštrović; M. Čubrilo. Monolingual Dictionary Semantic Capturing Using Concept Lattice. *International Review on Computers and Software*. 6 (2011), 2; pp. 173-184, 2011.

A. Meštrović; L. Bernić; M. Pobar; S. Martinčić-Ipšić; I. Ipšić. A Croatian Weather Domain Spoken Dialog System Prototype. *CIT. Journal of computing and information technology*. 18(4), 309-316, 2010.

A. Meštrović; S. Martinčić-Ipšić; M. Čubrilo. Weather Forecast Data Semantic Analysis in F-Logic. *Journal of Information and Organizational Sciences*. 31(1), 115-129, 2007.

Book chapters

S. Šišović, S. Martinčić-Ipšić, A. Meštrović. Toward Network-based Keyword Extraction from Multitopic Web Documents. *Social sciences via network analysis and computation*, Kanduč, Tadej (ur.), Frankfurt am Main, Berlin, Bern, Bruxelles, New York, Oxford, Wien: Peter Lang, 2015.

H. Rizvić, S. Martinčić-Ipšić, A. Meštrović. Network Motifs Analysis of Croatian Literature. *Social sciences via network analysis and computation*, Kanduč, Tadej (ur.), Frankfurt am Main, Berlin, Bern, Bruxelles, New York, Oxford, Wien: Peter Lang, 2015.

D. Margan; S. Martinčić-Ipšić; A. Meštrović. Preliminary Report on the Structure of Croatian Linguistic Co-occurrence Networks. *Towards Solving the Social Science Challenges with Computing Methods*. Mileva Boshkoska, Biljana (ur.). Frankfurt am Main, Berlin, Bern, Bruxelles, New York, Oxford, Wien : Peter Lang, 93-104. 2015.

D. Margan, S. Martinčić-Ipšić and A. Meštrović. Network Differences Between Normal and Shuffled Texts: Case of Croatian. *Studies in Computational Intelligence, Complex Networks V*. Vol.549. Springer pp. 275-283, 2014.

A. Meštrović; M. Čubrilo. F-Logic, Data and Knowledge Reasoning in the semantic web Context. *Intelligent Engineering Systems and Computational Cybernetics / J.A. Tenreiro Machado, Bela Patkai, Imre J. Rudas (ur.)*. Porto : Springer, 2009. Str. 119-136, 2009.

Selected conference proceedings

T. Ban Kirigin, A. Meštrović, S. Martinčić-Ipšić. Towards a Formal Model of Language Networks. *Information and Software Technologies ICIST 2015, Lithuania*, eds). G. Dregvaite and R. Damasevicius, *Communications in Computer and Information Science*, Springer International Publishing, Volume 538, 469-479, 2015.

N. Matas; S. Martinčić-Ipšić; A. Meštrović. Extracting Domain Knowledge by Complex Networks Analysis of Wikipedia Entries. *IEEE 38th International Convention*, pp. 1955-1960, 2015.

D. Margan; A. Meštrović. LaNCoA: A Python Toolkit for Language Networks Construction and Analysis. *IEEE 38th International Convention*, pp. 1961-1966, 2015.

H. Rizvić; S. Martinčić-Ipšić; A. Meštrović. Network Motifs Analysis of Croatian Literature. 6th International Conference on Information Technologies and Information Society (ITIS2014). Novo Mesto, Slovenia, 2014.

S. Šišović; S. Martinčić-Ipšić; A. Meštrović. Toward Network-based Keyword Extraction from Multitopic Web Documents. 6th International Conference on Information Technologies and Information Society (ITIS2014). Novo Mesto, Slovenia, 2014.

S. Beliga; A. Meštrović; S. Martinčić-Ipšić. Toward Selectivity Based Keyword Extraction for Croatian News.Surfacing the Deep and the Social Web (SDSW 2014). CEUR Proc. Vol-, 1-14. 2014.

S. Šišović; S. Martinčić-Ipšić; A. Meštrović. Comparison of the language networks from literature and blogs. Proceedings of MIPRO 2014 - IEEE 37th International Convention, Mipro, Rijeka, pp. 1824-1829, 2014.

D. Margan; A. Meštrović; S. Martinčić-Ipšić. Complex Networks Measures for Differentiation between Normal and Shuffled Croatian Texts. Proceedings of MIPRO 2014 - IEEE 37th International Convention, Mipro, Rijeka, pp. 1819-1823, 2014.

D. Margan; S. Martinčić-Ipšić; A. Meštrović. Preliminary Report on the Structure of Croatian Linguistic Co-occurrence Networks. 5th International Conference on Information Technologies and Information Society, Slovenia, 89-96, 2013.

K. Ban; A. Meštrović; S. Martinčić-Ipšić. Initial Comparison of Linguistic Networks Measures for Parallel Texts. 5th International Conference on Information Technologies and Information Society-ITIS 2013, Slovenija , 97-104, 2013.

K. Ban; I. Ivakić; A. Meštrović; S. Martinčić-Ipšić. A preliminary study of Croatian Language Syllable Networks, Proceedings of MIPRO 2013 - 36th IEEE International Convention, Mipro, Rijeka, 2013.

M. Pavlić; A. Jakupović; A. Meštrović. Graph-Based Formalisms for Knowledge Representation, Knowledge Generation, Communication and Management: KGCM 2013, Conference on Systemics, Cybernetics and Informatics: WMSCI 2013, Orlando, Florida, USA,2013.

L. Načinović; B. Perak; A. Meštrović; S. Martinčić-Ipšić. Identifying Fear Related Content in Croatian Texts. 8th Language Technologies Conference, Slovenia, 153-156, 2012.

A. Meštrović; L. Bernić; M. Pobar; S. Martinčić-Ipšić; I. Ipšić. Overview of a Croatian Weather Domain Spoken Dialogue System Prototype. 32nd International Conference on Information Technology Interfaces-ITI2010, 103-108, 2010.

A. Meštrović; S. Martinčić-Ipšić; I. Ipšić. Semantic Analysis in F-logic. Semantic Representation of Spoken Language 2007, DFKI, Salamanca, 59-66, 2007.

Invited lectures

- Discovering Communities in Complex Networks, Scientific colloquium, Mathematicians and Physicists Society, Rijeka, 20.11.2014.
- Complex Networks Structure Analysis: the global and the local perspective, Science Festival, Rijeka, 11.4.2014.
- Complex Networks Structure Analysis, Department of Matematics, Scientific colloquium, Rijeka, December, 2013.
- F-logic as a mechanism for lattice modelling of semistructured data manipulation. CyberTechs Society, Rijeka, May, 2010.

TEACHING EXPERIENCE	<p>Undergraduate courses Programming, Programming 1, Programming 2, Logic Programming, Department of Informatics, University of Rijeka 2010 - present</p> <p>Graduate courses Knowledge management, Department of Informatics, University of Rijeka 2010 - present</p> <p>PhD courses Konwledge Management Technologies, Department of Informa-tics, University of Rijeka 2013 - present</p> <p>Thesis supervision</p> <p>1 PhD student supervising, PhD in Informatics, Department of Informatics, University of Rijeka 2014-present</p> <p>2 PhD students co-supervising, PhD in Informatics, Department of Informatics, University of Rijeka 2013-present</p> <p>8 Master Thesis supervised 2010 - present</p> <p>9 Bachelor Thesis supervised 2010 - present</p>
PROFESSIONAL EXPERIENCE	<ul style="list-style-type: none"> • Program Committee Member: ITIS2013, ITIS2014, ISD2014, ITIS 2015, IKC 2015 • Reviewer International Journals: Knowledge Based Systems, Computational and Mathematical Organization Theory, PLoS ONE, Informatica (An International Journal of Computing and Informatics) • Reviewer Conferences: CECIS, ITIS, ITI, ISD.
GRANTS AND AWARDS	<ul style="list-style-type: none"> • Erasmus grant, Visiting professor, Fakulteta za Informacijske Študije, Novo Mesto, Slovenia, 2013.
PROFESSIONAL MEMBERSHIPS	Association for Computing Machinery (ACM) CyberTechs Society Society of Mathematicians and Physicists Rijeka
TECHNICAL SKILLS	Operating Systems: MS Windows, Linux Programming Languages: C/C++, Java, Pascal, Python, Haskell, Prolog, HiLog, F-Logic, SQL, HTML/XML/RDF/OWL, L ^A T _E X Tools: Gephi, NodeXL, CytoScape, Pajek, Weka, Protege
LANGUAGES	<i>Fluent:</i> Croatian, English <i>Working proficiency:</i> Italian, Slovene
PRIVAT	Married and mother of one child (born in 2009).