

Mehdi Allahyari

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RESEARCH INTERESTS

- Semantic Web, Linked Open Data
- Topic Models
- Text Mining, Machine Learning
- Graph-structured Data Analysis including Social and Information Networks
- Recommendation Systems
- Large-scale Data Analysis
- Knowledge Discovery particularly in Healthcare and Biomedical Sciences

EDUCATION

University of Georgia, Athens, GA

Aug 2010 - June 2016

PhD. in Computer Science

Dissertation: *Semantic Web Topic Models: Integrating Ontological Knowledge and Probabilistic Topic Models*

Overall GPA: 3.97

University of Kashan, Kashan, Iran

Aug 2001 - Aug 2005

B.Sc., Applied Mathematics

WORK EXPERIENCE

Computer Science Department, Georgia Southern University

Aug 2017 -

Faculty

Statesboro, GA

- Assistant Professor (tenure-track)

Computer Science Department, The University of Georgia

Aug 2016 - Aug 2017

Faculty

Athens, GA

- Full-time Lecturer

The University of Georgia

Aug 2010 - Jun 2016

Graduate Research Assistant - Complex Carbohydrate Research Center (CCRC)

Athens, GA

- Designed and implemented the IBDaM (Integrated Biomass Data Management) System (over 40,000 lines of codes): a Web-based system for collecting, archiving and calculating, annotating and data mining Biochemistry processes (colorimetric, chromatography, glycome profiling, etc.)
- Redesigned and developed the WallBioNet Web-based system: a web-based system to serve as an information center and a resource for researchers studying plant cell wall biosynthesis

International Systems Engineering Company (IRISA)

Jan 2009 - Jul 2010

Oracle ERP Senior Consultant

Esfahan, Iran

- HRMS Team Lead

- Upgraded Oracle E-Business Suite HRMS Modules (HR, Payroll, Time & Labor and Training Management)
- Post Implementation of Oracle HRMS Modules
- Oracle Application System Administrator

International Informatics System Avaran Company (BASA)

Jul 2005 - Dec 2008

Oracle ERP Consultant

Esfahan, Iran

- Implemented and Supported Oracle HRMS Modules (HR, Payroll, Time & Labor and Training Management)
- Analyzed and Designed Future Business Processes
- Designed strategies and interfaces using API's, and PL/SQL
- Training Users

TEACHING

Computer Science Department, Georgia Southern University

Fall 2017

CSCI 1301 (CRN 80227) - Programming Principles I

Computer Science Department, The University of Georgia

Summer 2017

- CSCI 2610 (CRN 51972) - Discrete Mathematics for CSCI

Computer Science Department, The University of Georgia

Spring 2017

- CSCI 1302 (CRN 36424) - Software Development
- CSCI 4300 (CRN 26666) - Web Programming
- CSCI 4300 (CRN 41126) - Web Programming

Computer Science Department, The University of Georgia

Fall 2016

- CSCI 1302 (CRN 16468) - Software Development
- CSCI 1302 (CRN 16471) - Software Development
- CSCI 4300 (CRN 31786) - Web Programming

PUBLICATIONS

- [1] William S. York, **M. Allahyari**, John D. Hogan. *NMR Databases for Plant Cell Wall Biopolymers*. In NMR in Glycoscience and Glycotechnology. **Book Chapter**. url: <http://dx.doi.org/10.1039/9781782623946>, 2017.
- [2] **M. Allahyari**, S. Pouriyeh and K. J. Kochut. *Combining Semantic Graph and Probabilistic Topic Models for Discovering Coherent Topics*. Web Intelligence Journal (2017). [Under Review]
- [3] **M. Allahyari** and K. J. Kochut. *OntoLDA: An Ontology-based Topic Model for Automatic Topic Labeling*. Data science Journal (2017). [Under Review]
- [4] Elizabeth D Trippe, Jacob B Aguilar, Yi H Yan, Mustafa V Nural, Jessica A Brady, Mehdi Assefi, Saeid Safaei, **Mehdi Allahyari**, Seyedamin Pouriyeh, Mary R Galinski, et al. A vision for health informatics: Introducing the sked framework. an extensible architecture for scientific knowledge extraction from data. *arXiv preprint arXiv:1706.07992*, 2017.

- [5] **Mehdi Allahyari**, Seyedamin Pouriyeh, Mehdi Assefi, Saeid Safaei, Elizabeth D Trippe, Juan B Gutierrez, Krys Kochut. A Brief Survey of Text Mining: Classification, Clustering and Extraction Techniques. *Big data analytics-as- a-Service: Architecture, Algorithms, and Applications in Health Informatics in KDD2017*.
- [6] **Mehdi Allahyari**, Seyedamin Pouriyeh, Mehdi Assefi, Saeid Safaei, Elizabeth D Trippe, Juan B Gutierrez, Krys Kochut. Text Summarization Techniques: A Brief Survey. *arXiv preprint arXiv:1937985*, 2017.
- [7] **M. Allahyari** and K. J. Kochut. *Combining Topic Models with Wikipedia Category Network for Semantic Tagging*. International Journal of Semantic Computing (IJSC).
- [8] **M. Allahyari** and K. J. Kochut. *Semantic Context-aware Recommendation via Topic Models Leveraging Linked Open Data*. In 17th International Conference on Web Information Systems Engineering (WISE 2016).
- [9] **M. Allahyari** and K. J. Kochut, *Discovering Coherent Topics with Entity Topic Models*, In 2016 IEEE/WIC/ACM International Conference on Web Intelligence (WI 2016).
- [10] **M. Allahyari** and K. J. Kochut. *Semantic Tagging Using Topic Models Exploiting Wikipedia Category Network*. In 10th IEEE International Conference on Semantic Computing (ICSC) 2016.
- [11] **M. Allahyari** and K. J. Kochut. *Automatic Topic Labeling using Ontology-based Topic Models*. In Machine Learning and Applications (ICMLA), 2015 14th International Conference on. IEEE, 2015. **Best Paper Award**
- [12] **M. Allahyari**, K. J. Kochut, and M. Janik. *Ontology-based text classification into dynamically defined topics*. In Semantic Computing (ICSC), 2014 IEEE International Conference on, IEEE, 2014, pp. 273–278.

PROFESSIONAL ACTIVITIES

Session Chair

- IEEE International Conference on Semantic Computing (ICSC'16)

Review for Journal

- International Journal on Semantic Web and Information Systems (IJSWIS)
- Knowledge and Information Systems (KAIS)
- IEEE Transactions on Services Computing
- IEEE Transactions on Cybernetics
- International Journal of Data Mining, Modelling and Management (IJDMMM)

Program Committee (PC)

- IEEE International Conference on Machine Learning and Applications (IEEE ICMLA'16)
- IEEE International Conference on Machine Learning and Applications (IEEE ICMLA'17)

TECHNICAL SKILLS

Programming Languages	Java EE, C, C++, JavaScript, JQuery, SQL
Web Development	HTML, CSS, FreeMarker, RESTfull & SOAP Web Services, JPA
Semantic Web Technologies	OWL, RDF, RDFS, SPARQL, Jena, Virtuoso
Databases	PostgreSQL, MySQL, Oracle
Software & Tools	Hadoop, MATLAB, R, Weka, Eclipse, NetBeans, Protégé, SVN

REFERENCES

Krys Kochut

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Hamid Arabnia

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Will York

Adjunct Professor of Computer Science,
Professor of Biochemistry and Molecular Biology
Complex Carbohydrate Research Center(CCRC),
315 Riverbend Road, Athens, Georgia 30602

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