

# Seyedamin (Amin) Pouriyeh

## Research Interests

Semantic Web, Linked Open Data.

Large-scale Data Analysis, Text Mining, Machine Learning.

Knowledge Discovery particularly in Healthcare and Biomedical Sciences.

Topic Models, Summarization.

Graph-structured Data Analysis including Social and Information Networks.

## Education

August 2018 **Ph.D. in Computer Science**, University of Georgia, Athens, GA, USA.

January 2009 **M.S. in Information Technology Engineering**, Shiraz University, Iran.

## Publications

1. **S. Pouriyeh**, M. Allahyari, G. Cheng, H. Arabnia, K. Kochut. *R-LDA: Profiling RDF datasets using Knowledge-based Topic Modeling*. 17<sup>th</sup> IEEE International Conference On Machine Learning And Applications (ICMLA) 2018 (under review).
2. **S. Pouriyeh**, M. Allahyari, Q. Liu, G. Cheng, H. Arabnia, Y. Qu, K. Kochut. *Graph-based Ontology Summarization: A Survey*. AIKE 2018 (under review).
3. R. Price, L. Ramaswamy, **S. Pouriyeh**. *Efficient Processing of Range Queries over Distributed Relational Databases*. 19<sup>th</sup> IEEE International Conference on Information Reuse and Integration for Data Science.
4. **S. Pouriyeh**, M. Allahyari, K. Kochut, H. Arabnia. *A Comprehensive Survey of Ontology Summarization: Measures and Methods*. preprint arXiv:1801.01937v1. 2018.
5. **S. Pouriyeh**, M. Allahyari, K. Kochut, G. Cheng, H. Arabnia. *Combining Word Embedding and Knowledge-Based Topic Modeling for Entity Summarization*. The 12<sup>th</sup> IEEE International Conference on Semantic Computing (ICSC 2018).
6. **S. Pouriyeh**, M. Allahyari, K. Kochut, G. Cheng, H. Arabnia. *ES-LDA: Entity Summarization using Knowledge-based Topic Modeling*. The 8<sup>th</sup> International Joint Conference on Natural Language Processing (IJCNLP 2017).
7. M. Allahyari, **S. Pouriyeh**, K. Kochut. *Combining Semantic Graph and Probabilistic Topic Models for Discovering Coherent Topics*. International Web Intelligence Journal (under review).
8. M. Allahyari, **S. Pouriyeh**, K. Kochut, H. Arabnia. *A Knowledge-based Topic Modeling Approach for Automatic Topic Labeling*. International Journal of Advanced Computer Science and Applications (2017).
9. **S. Pouriyeh**, S. Vahid, G. Sannino, G. De Pietro, H. Arabnia, J. Gutierrez. *A Comprehensive Investigation and Comparison of Machine Learning Techniques in the Domain of Heart Disease*. 22<sup>nd</sup> IEEE Symposium on Computers and Communication (ISCC 2017).
10. M. Allahyari, **S. Pouriyeh**, M. Assefi, S. Safaei, E. Trippe, J. Gutierrez, K. Kochut. *Text Summarization Techniques: A Brief Survey*. International Journal of Advanced Computer Science and Applications (2017).
11. M. Allahyari, **S. Pouriyeh**, M. Assefi, S. Safaei, E. Trippe, J. Gutierrez, K. Kochut. *A Brief Survey of Text Mining: Classification, Clustering and Extraction Techniques*. bigdas: Big Data Analytics as a Service - bigdas@KDD2017.

12. E. Trippe, J. Aguilar, Y. Yan, M. Nural, J. Brady, M. Assefi, S. Safaei, M. Allahyari, **S. Pouriyeh**, M. Galinski, J. Kissinger, J. Gutierrez. *A Vision for Health Informatics: Introducing the SKED Framework An Extensible Architecture for Scientific Knowledge Extraction from Data*. bigdas: Big Data Analytics as a Service - bigdas@KDD2017.
13. A. Sherafat, **S. Pouriyeh**, M. Doroodchi. *EV-IMP Model: A Comprehensive Model for Evaluation of an Organization's Website Success*. The 2013 World Congress in Computer Science, Computer Engineering, and Applied Computing (WORLDCOMP'13).
14. **S. Pouriyeh**, M. Doroodchi, M.R. Rezaeinejad. *Secure Mobile Approaches Using Web Services*. The 2010 World Congress in Computer Science, Computer Engineering, and Applied Computing (WORLDCOMP'10).
15. Esmaeilpour, M. Doroodchi, M. A. Khojastepour, G. Dastghaibyfar, **S. Pouriyeh**. *A Novel Method for Internet Application Development*. International Conference on Software and Data Engineering(ICSDE2010).
16. **S. Pouriyeh**, M. Doroodchi. *Using Secure Web services in e-Banking*. 3<sup>rd</sup> Annual Summit e-Banking(2009).
17. **S. Pouriyeh**, M. Doroodchi. *Secure SMS Banking Based on Web services*. The 2009 World Congress in Computer Science, Computer Engineering, and Applied Computing (WORLDCOMP'09).
18. M. Doroodchi, A. Iranmehr, **S. Pouriyeh**. *An Investigation on Integrating XML-Based Security into Web Services*. 5<sup>th</sup> IEEE-GCC Conference (IEEE-GCC 2009).
19. M. Doroodchi, **S. Pouriyeh**, Z. Bornaee, E. Farjah. *Using Secure Web services in Mobile Payment*. 3<sup>rd</sup> Next Generation Network Congress (2008) **Best Paper Award**.

## Teaching

### University of Georgia.

- Fall 2018 CSCI 2610: Discrete Mathematics for Computer Science (Lecturer).
- Fall 2018 CSCI 2720: Data Structures (Lecturer).
- Spring 2018 CSCI 2610: Discrete Mathematics for Computer Science (Instructor of record).
- Fall 2017 CSCI 4810: Computer Graphics (Teaching Assistant).
- Spring 2017 CSCI 2611: Discrete Mathematics for Engineering (Instructor of record).
- Fall 2016 CSCI 1210: Computer Modeling and Science (Instructor of record).
- Spring 2016 CSCI 2610: Discrete Mathematics for Computer Science (Instructor of record).
- Fall 2015 CSCI 1210: Computer Modeling and Science (Instructor of record).
- Spring 2015 CSCI 1210: Computer Modeling and Science (Instructor of record).
- Fall 2014 CSCI1100L: Topics In Computing Lab
- Spring 2014 CSCI 2610: Discrete Mathematics for CS (Teaching Assistant).

## Professional Activities

### Review for Journal

1. International Journal of High-Performance Computer Design, Analysis, and Use.
2. International Journal of Cyber-Security and Digital Forensics (IJCSDF).

### Program Committee

1. 17<sup>th</sup> IEEE International Conference On Machine Learning And Applications 2018 (ICMLA'18).
2. International Workshop on Artificial Intelligence for Health, HEALTHINF/BIOSTEC 2018, Madeira - Portugal 19 to 21 of January 2018.
3. The Third International Conference on Electronics and Software Science (ICESS2017), July 31 - August 2, 2017, Takamatsu, Japan.
4. ICTS4eHealth Workshop, The Second edition of the IEEE workshop on ICT solutions for e-Health in conjunction with the Twenty-second IEEE Symposium on Computers and Communications (ISCC 2017).

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## Technical Skills

**Programming Languages:** Java, C/C++, Python, Prolog, Protege.

**Web Development:** ASP.NET, HTML, CSS, XML, Javascript.

**Database Management Systems:** MS SQL Server, MS Access, MySQL, PostgreSQL.

**Web Programming Components:** Coolite, DotNetNuke, php Nuke.

**Semantic Web Technologies:** OWL, RDF, RDFS, SPARQL, Jena, Virtuoso.

**Operating Systems:** MS Windows family, Linux.

**Software and tools:** Visual Studio, Netbeans, Eclipse, Hadoop, R, Weka.

**Graphics:** Photoshop, Fireworks.

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## Work Experience

### **Computer Science Department, The University of Georgia**

Fall 2018 to

*Lecturer*

Present CSCI 2610: Discrete Mathematics for Computer Science.

CSCI 2720: Data Structures.

Spring 2015 to

*Instructor of Record*

Spring 2018 CSCI 1210: Computer Modeling and Science.

CSCI 2610: Discrete Mathematics for Computer Science.

CSCI 2611: Discrete Mathematics for Engineering.

Fall 2014

*Graduate Lab Assistant*

CSCI 1100L: Topics in Computing.

Fall 2017

*Graduate Teaching Assistant*

CSCI 4810: Computer Graphics.

Spring 2014

*Graduate Teaching Assistant*

CSCI 2610: Discrete Mathematics for Computer Science.

### **Communication Sciences and Special education Department, The University of Georgia.**

Jan 2014 to

*Graduate Research Assistant*

Dec 2015 Developing Web Application System for Georgia Sensory Assistance Project (GSAP).

### **Crop and Soil Sciences Department, The University of Georgia.**

Jan 2016 to

*Graduate Research Assistant*

May 2018 Developing and supporting University of Georgia Weather website with over 80 weather stations.

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## Certificates

MCSE 2000 (Microsoft Certified Systems Engineer).

CCNA (Cisco Certified Network Associate).

MCSO.NET (Microsoft Certified Solution Developer).

LINUX

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## Awards

- 1 Receiving a waiver of tuition after being awarded as Research and Teaching Assistant From University of Georgia, Spring 2014 to Summer 2018.
- 2 Receiving POOIA (Professional Organization of Iranian Americans) Student Scholarship , December 2017.
- 3 Outstanding Graduate Teaching Assistant Award (University of Georgia), April 2016.
- 4 Tuition Discount because of being top student, Shiraz University from 2007 to 2009.
- 5 Best paper award in 3<sup>rd</sup> Next Generation Network Congress, 2008.

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## References

- **Professor Hamid Reza Arabnia**

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- **Professor Krzysztof J. Kochut**

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- **Professor Mohsen Dorodchi**

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