Soheyla Amirian

CONTACT INFORMATION

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EDUCATION

Sep 2021   **Ph.D. in Computer Science**, University of Georgia, USA
Advisor: Prof. Hamid R. Arabnia
Research area: Image Processing, Deep Learning

Mar 2013   **M.Sc. in Information Technology Engineering, Computer Networks**, Amir Kabir University of Technology (Tehran Polytechnic), Iran

Oct 2006   **B.Sc. in Computer Software Engineering**, Lahijan Azad University, Iran

Sep 2000   **High Diploma in Computer Software**, Technical and Vocational College (Community College), Iran

RESEARCH INTEREST

Interested in **Image Processing**, **Deep Learning**, **Image Captioning**, **Video Captioning,** Machine Learning, Computer Graphics, Computer Networks, and Instructional Technology. Highly motivated and eager to learn new things. Strong motivational and leadership skills. Ability to work as an individual as well as in group.

MAJOR AWARDS

Oct 01, 2019   **Anita Borg Grace Hopper** (GHC 19) Scholarship, Orlando, FL, USA

Feb 2019   **NVIDIA GPU** Grant

Apr 2018   **CRA-W Grad Cohort** Scholarship, San Francisco, CA, USA

Dec 03, 2017   **POOIA** (Professional Organization of Iranian-Americans) Student Scholarship

2014   **Best Paper** Award for "Issues of borders and security challenges in sensor networks", Regional Computing Conference on Sustainable Development of Border Security, Islamic Azad University, Shirvan Branch, North Khorasan, Iran

RECENT PUBLICATIONS

1. **Amirian, Soheyla**, Khaled Rasheed, Thiab R. Taha and Hamid R. Arabnia (2019) " A Short Review on Image Caption Generation with Deep Learning", The 23rd International Conference on Image Processing, Computer Vision and Pattern Recognition (IPCV'19), World Congress in Computer Science, Computer Engineering and Applied Computing (CSCE'19); ISBN: 1-60132-506-1, pp. 10-18, Las Vegas, Nevada, USA, (.pdf file).

2. **Amirian**, **Soheyla,** Zengyan Wang, Thiab R. Taha, and Hamid R. Arabnia, "Dissection of deep learning with applications in image recognition," in Computational Science and Computational Intelligence; "Artificial Intelligence" (CSCI-ISAI); 2018 International Conference on IEEE, 2018, ISBN-13: 978-1-7281-1360-9, pp. 1132–1138, (.pdf file).

HONORS & SERVICES

Honors
- **Poster**, "Video Caption Generation with Deep Learning", First Annual Computing@SEC, The University of Alabama, Sep 2019
- **Student Travel Grant**, International Conference on Image Processing, Computer Vision, & Pattern Recognition (IPCV'19), Aug 2019
- **Paper Presentation,** International Conference on Image Processing, Computer Vision, & Pattern

Recognition (IPCV'19), Las Vegas, NV, USA, Jul 2019
- **Student Travel Grant**, Computational Science & Computational Intelligence (CSCI'18), Dec 2018
- **Paper Presentation,** 5th Annual Conf. on Computational Science & Computational Intelligence (CSCI'18), Las Vegas, NV, USA, Dec 2018
- **Poster**, "Machine Learning for Solar Radiation Prediction", The annual research day event, Department Of Computer Science, Georgia Center, University of Georgia, Athens, GA, USA, Apr 13, 2018
- **Number Four** in the entrance test for B.Sc. Degree, Computer Software Engineering, Iran (2014)
- **Number One** in the entrance test for H.Dip., Computer Software, Iran (1998)

Services
- **Session Chair**, International Conference on Image Processing, Computer Vision, & Pattern Recognition (IPCV'19), Las Vegas, NV, USA, Jul 30, 2019
- **Reviewer**, IEEE Access (Jun 2019 - present)
- **Reviewer**, The Journal of Supercomputing, Springer (Mar 2019 - present)

EMPLOYMENT HISTORY

Spring 2020   **Instructor**
University of Georgia
Undergraduate level
Data structure for Data Science

Jan – Dec 2019   **Graduate Teaching Assistant**
University of Georgia
Graduate and undergraduate level with 75 students
Data structure, Spring, Summer and Fall 2017
Computer Networking, Spring 2018, Spring and Summer 2019
Computer Architecture, Summer 2018, Fall 2019
Responsibilities: Teaching, Grading, Supervising and advising students

Jun - Dec 2018   **Graduate Assistant**
Business Office, Graduate School, University of Georgia

2006 - 2016   **Lecturer**
(2006-2016) Technical and Vocational University, (2013-2016) University of Applied Science (Academic Center for Education, Culture and Research), Kermanshah, Iran
Computer Networking, Image Processing, Network Security, Switch and Router Configuration, Server Configuration And Group Policies, Security of E-Commerce, ISP, Databases, Computer Graphics, Supervising Students Projects

2013 - 2016   **Course Coordinator of IT Program**
Technical and Vocational University, Kermanshah, Iran

2000 - 2016   **Teacher**
Technical High School, Kermanshah, Iran
Programming, Databases, Operating Systems, MS Office, Computer Networking, Specialized English Language for Computing, Computer Architecture- Adobe Applications

INVITED TALKS AND GUEST LECTURER

Talks
- Panel discussion of challenges of living as an international in a foreign country, a different language and a different educational environment and culture in the Computer Science Students Orientation, University of Georgia (Aug 12, 2019)
- International TA Orientation: Key teaching assistant policies for international TAs and provide resources related to successful teaching and learning practices, University of Georgia (Aug 07 & 13, 2019)
- Encouraging students specially girls to study at the Computer Science, County high school, Athens, GA, USA (April 2019)
- Panel discussion of challenges of living as an international in a foreign country, a different language and a different educational environment and culture in the Computer Science Students Orientation, University of Georgia (Aug 08, 2018)
- Panel discussion of challenges of living as an international in a foreign country, a different language and a different educational environment and culture in the International Graduate Student Orientation, University of Georgia (Aug 01, 2018)

Guest Lecturer
- GRSC, Computer Science Department, Athens, GA, USA (Sep 11, 2019)

- An Introduction of Robotics, Computer Science Department, Middle School Students, Athens, GA, USA (Jun 5, 2019)
- An Introduction of Robotics, Computer Graphics class, Undergraguate and Graduate level, Computer Science Department, University of Georgia (Aug 2017)

CERTIFICATIONS, ADDITIONAL SKILLS, AND ACTIVITIES

Certificates
- NLP with Python for Machine Learning Essential Training (2019, Lynda.com)
- Neural Networks and Convolutional Neural Networks Essential Training (2018, Lynda.com)
- Python (2015, Michigan University)
- Cloud Computing (2014)
- Microsoft Service Providers Manager (2008)
- Network Security General Technician, Windows–NT manager (2007)
- Business Skills, Setting up the network structure for a department (2006)
- Management, Microsoft Excel (2004)
- Producing applications for two organizations (2001)

Skills **Image Processing**, **Deep Learning**, **Image/ Video Captioning**, Machine Learning, Computer Graphics, Instructional Technology, Networks, Cyber Security, Computer Networks Administration. Productive in both team-based and self-managed projects; dedicated to maintaining up-to-date knowledge and IT skills. Currently, investigating new ways of utilizing Deep Learning methodologies.

Programming Languages, Databases, Microsoft Softwares, Adobe Softwares, 3D Studio Max, Network Application Softwares

Language Skills Persian (native), English, French, German, Arabic

Courses Computer Networks, Biomedical Image Analysis, Software Engineering, Algorithms, Computer Graphics, Image Processing, Machine Learning, Advanced Biomedical Image Analysis, Advanced Data Intensive Computing, Advanced Representation Learning, Effective Mentoring, Course Design

Hobbies Playing Tennis, Playing Guitar, Sewing (Designing), Watching Movie, Reading and Learning New Things