

# Mohammad D. Alahmadi

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## Professional Summary

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I'm interested in the ways that Artificial Intelligence (AI) can be used to extract useful information from large real-world data sets including texts and images. I'm always looking for opportunities and challenges that could sharpen my technical skills in both academia and industries. For the academia, I have published papers in the top journals in my field with high impact factors, both with other collaborators and as a solo author. For the technical practices, I have been contributing to several IT projects in a wide range of topics over the last decade, working as a freelancer, a student, and a competitor.

## Education

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### Florida State University, Tallahassee, USA

Ph.D. in Computer Science (Focus: Deep Learning), Advisor: [Sonia Haiduc](#)

Tallahassee, USA

January 2018–December 2020

- Thesis: [Identifying and Extracting Information from Video Programming Tutorials to Support Developer Knowledge Discovery](#)
- GPA: 3.96/4.00

### Florida State University, Tallahassee, USA

M.S. in Computer Science (Focus: Computer Vision), Advisor: [Jie Yang](#)

Tallahassee, USA

January 2016–December 2017

- Thesis: [Mobile Augmented Reality in Indoor Environment](#)
- GPA: 3.96/4.00

### King Abdulaziz University B.Sc. Degree in Information Technology

B.Sc. Degree in Information Technology (Focus: Mobile Computing)

Jeddah, KSA

August 2008–June 2012

- Capstone Project: “Electronic Emergency System”
- GPA: 4.87/5.00

## Experience

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### University of Jeddah

Assistant Professor

Jeddah, Saudi Arabia

January 2020–current

### Florida State University

Lead Teacher Assistant

Research Assistant

Tallahassee, USA

January 2018–December 2020

### King Abdulaziz University

Teacher Assistant

Jeddah, Saudi Arabia

January 2014–August 2014

### General Authority of Civil Aviation

Programmer

Jeddah, Saudi Arabia

October 2012–January 2014

### Saudi Arabian Airlines

Trainee: Programmer

Jeddah, Saudi Arabia

2011–2012

## Publications

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- [1] **M. Alahmadi**, “Medical image segmentation with learning semantic and global contextual representation”, *Diagnostics*, vol. 12, no. 7, 2022, ISSN: 2075-4418.
- [2] **M. Alahmadi**, “Multi-scale attention u-net for skin lesion segmentation”, *IEEE Access*, 2022.
- [3] **M. Alahmadi**, “Texture attention network for diabetic retinopathy classification”, *IEEE Access*, 2022.
- [4] **M. Alahmadi**, “Vid2xml: Automatic extraction of a complete xml data from mobile programming screencasts”, *IEEE Transactions on Software Engineering*, 2022.
- [5] K. Mursi, **M. Alahmadi**, F. Alsubaei, and A. Alghamdi, “Detecting islamic radicalism arabic tweets using natural language processing”, *IEEE Access*, 2022.
- [6] E. Parra, **M. Alahmadi**, A. Ellis, and S. Haiduc, “A comparative study and analysis of developer communications on slack and gitter”, *Empirical Software Engineering*, vol. 27, no. 2, pp. 1–33, 2022.
- [7] J. Alsubhi, A. Gharawi, and **M. Alahmadi**, “A performance study of membership inference attacks on different machine learning algorithms”, *Journal of Information Hiding and Privacy Protection*, vol. 3, no. 4, pp. 193–200, 2021, ISSN: 2637-4226.
- [8] **M. Alahmadi**, A. Khormi, and S. Haiduc, “GUI-focused overviews of mobile development videos”, in *Proceedings of the ACM/IEEE 42nd International Conference on Software Engineering: Companion Proceedings*, 2020, pp. 314–315.
- [9] **M. Alahmadi**, A. Khormi, and S. Haiduc, “Ui screens identification and extraction from mobile programming screencasts”, in *Proceedings of the 28th International Conference on Program Comprehension*, 2020, pp. 319–330.
- [10] **M. Alahmadi**, A. Khormi, B. Parajuli, J. Hassel, S. Haiduc, and P. Kumar, “Code localization in programming screencasts”, *Empirical Software Engineering*, vol. 25, no. 1, pp. 1536–1572, 2020.
- [11] **M. Alahmadi**, A. Tayeb, A. Khormi, E. Parra, and S. Haiduc, “UIScreens: Extracting user interface screens from mobile programming video tutorials”, in *Proceedings of the 28th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, 2020, pp. 1660–1664.
- [12] A. Khormi, **M. Alahmadi**, and S. Haiduc, “A study on the accuracy of ocr engines for source code transcription from programming screencasts”, in *Proceedings of the 17th IEEE/ACM Working Conference on Mining Software Repositories*, 2020, pp. 376–386.
- [13] **M. Alahmadi**, J. Hassel, B. Parajuli, S. Haiduc, and P. Kumar, “Accurately predicting the location of code fragments in programming video tutorials using deep learning”, in *Proceedings of the 14th International Conference on Predictive Models and Data Analytics in Software Engineering*, 2018.
- [14] **M. Alahmadi** and J. Yang, “Towards efficient mobile augmented reality in indoor environments”, in *International Conference on AI and Mobile Services*, Springer, 2018, pp. 106–122.

## Professional Services

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- **Reviewer:** 2018–current
  - IEEE Transactions on Software Engineering ([TSE](#))
  - Empirical Software Engineering ([EMSE](#))
  - International Conference on Software Engineering ([ICSE](#))
  - Foundations of Software Engineering ([FSE](#))

## Skills

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- **Machine Learning:** Data analysis
- **Computer Vision:** Image analysis
- **Programming:** Python, Java, C, C#
- **Mobile Programming:** Android, Flutter
- **Database:** MySQL, Microsoft SQL Server, SQLite

## Selected Projects

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- **Vid2XML:** Extract XML data from videos
- **Glassfit:** Try on glasses
- **Parking Finder:** Mobile apps for parking management
- **Future Shopping:** Shop using a robot

## Awards

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- **GlassFit:** Hackathon on Computer Vision by Thakaa center 2021
  - One of the best three projects out of 230 projects
- **EES:** Annual Conference on Undergraduate Research on Applied Computing - Zayed University 2012
  - One of the best six projects out of 90 international projects
  - [urc.ac](http://urc.ac)
- **EES Project:** Best Undergraduate Project - FCIT, King Abdulaziz University 2012
- **EES:** National Technology Entrepreneurship Challenge 2012
  - Top ten out of 100 projects