

Ahoud Abdulrahmn Alhazmi

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About me

- Ahoud Alhazmi (Member, IEEE) earned a Doctor of Philosophy (PhD) in computer science from Macquarie University in 2022. She is an assistant professor in the College of Computers at Al-Leith, Umm Al-Qura University. She has written and co-written numerous academic publications. She has also worked in various capacities on numerous conference committees and international journals, including as a member of the Program Committee (PC) and a reviewer.

My areas of interest include, but are not limited to, Deep learning, Machine Learning, Data Mining, Natural Language Processing, Adversarial Attacks, Explaining Black-Box Models, Artificial intelligence in Education, and Human-Computer Interaction.

Education

- 2022 ■ **Ph.D. Macquarie University**, School of Computing. 📍 Sydney, Australia
Thesis title: *Defending Adversarial Attacks on Deep Learning Models in Natural Language Processing*
Supervisors: Prof. Michael Sheng and Dr. Wei Emma Zhang
- 2018 ■ **M.Sc. The University of Adelaide**, School of Computer Science. 📍 Adelaide, Australia
Thesis title: *Providing Meta-cognitive Support Using Learning by Teaching Paradigm*
Supervisors: Dr. Amali Weerasinghe
Cumulative GPA: *High Distinction (HD)*
- 2011 ■ **B.Sc. King Abdul-Aziz University**, Computer Science department. 📍 Jeddah, Saudi Arabia
Project title: *"Via": Electronic Organizer for Family*
Supervisors: Dr. Mai Fadel
Cumulative GPA: *Excellent with Honor*

Research Publications

Journal Articles

1. *Adversarial Attacks on Deep-learning Models in Natural Language Processing: A Survey*. 2020. Wei Emma Zhang, Quan Z. Sheng, **Ahoud Alhazmi**, Chenliang Li. ACM Transactions on Intelligent Systems and Technology (TIST). pp.1-41. [PDF] (EiC's Pick as Five Outstanding TIST Articles in Jan 2022, Highly Cited in Semantic Scholar).
2. *The Impact of Guided Metacognitive Feedback on Novice Programmers Using Learning by Teaching Environment*. 2019. **Ahoud Alhazmi**, Rafika Maaroufi and Abdulwahab Aljubairy. Journal of King Abdulaziz University: Computing and Information Technology Sciences (JKAU): Comp. IT. Sci., Vol. 8 No. 2. p13 – 31. [PDF].
3. *Memory Management via Ownership Concept Rust and Swift: Experimental Study*. 2021. Elaf Alhazmi, Abdulwahab Aljubairy, **Ahoud Alhazmi**. International Journal of Computer Applications (IJCA) Vol 183 - No.22. [PDF].

Conference Proceedings

1. *A Fast and Accurate Approach for Inferencing Social Relationships among IoT Objects*. 2022. Abdulwahab Aljubairy, **Ahoud Alhazmi**, Wei Emma Zhang, and Quan Z. Sheng, and Dai Hoang Tran. In Proceedings of the International Conference on Advanced Data Mining and Applications (ADMA), Sydney, Australia, Feb 2-4. Springer. [\[PDF\]](#).
2. *Towards a Deep Learning-driven Service Discovery Framework for the Social Internet of Things: A Context-aware Approach*. 2021. Abdulwahab Aljubairy, **Ahoud Alhazmi**, Wei Emma Zhang, and Quan Z. Sheng, Dai Hoang Tran. In Proceedings of the 22nd International Conference on Web Information Systems Engineering (WISE), Melbourne, Australia, October 26-29. IEEE. [\[PDF\]](#).
3. *A Unified Framework for Improving Misclassifications in Modern Deep Neural Networks for Sentiment Analysis*. 2021. **Ahoud Alhazmi**, Abdulwahab Aljubairy, Wei Emma Zhang, and Quan Z. Sheng. In Proceedings of the International Joint Conference on Neural Networks (IJCNN), Virtual Conference, July 18-22. pp. 1-7. IEEE. [\[PDF\]](#).
4. *SloTPredict: A Framework for Predicting Relationships in the Social Internet of Things*. 2020. Abdulwahab Aljubairy, Wei Emma Zhang, and Quan Z. Sheng, and **Ahoud Alhazmi**. In Proceedings of the International Conference on Advanced Information Systems Engineering (CAiSE), Grenoble, France, June 8-12. pp. 101-116. Springer. [\[PDF\]](#).
5. *Are Modern Deep Learning Models for Sentiment Analysis Brittle? An Examination on Part-of-Speech*. 2020. **Ahoud Alhazmi**, Wei Emma Zhang, and Quan Z. Sheng, and Abdulwahab Aljubairy. In Proceedings of the International Joint Conference on Neural Networks (IJCNN), Glasgow, United Kingdom, July 19-24. pp. 1-7. IEEE. [\[PDF\]](#).
6. *Analyzing the Sensitivity of Deep Neural Networks for Sentiment Analysis: A Scoring Approach*. 2020. **Ahoud Alhazmi**, Wei Emma Zhang, and Quan Z. Sheng, and Abdulwahab Aljubairy. In Proceedings of the International Joint Conference on Neural Networks (IJCNN), Glasgow, United Kingdom, July 19-24. pp. 1-7. IEEE. [\[PDF\]](#).
7. *The 10 Research Topics in the Internet of Things*. 2020. Wei Emma Zhang, and Quan Z. Sheng, Mahmood, A., Dai Hoang Tran, Munazza Zaib, Salma Abdalla Hamad, Abdulwahab Aljubairy, **Ahoud Alhazmi**, Subhash Sagar. and Congbo Ma. In Proceedings of the 6th International Conference on Collaboration and Internet Computing (CIC), Atlanta, GA, USA, December 1-3. (pp. 34-43). IEEE. [\[PDF\]](#).

Professional Activities

Journal Articles

- Reviewer, Journal of Computing, 2022.
- Reviewer, Journal of IEEE Transactions on Computational Social Systems, 2022.

Conference Proceedings

- *Program Committee (PC) Member*, the 33rd Australian Conference on Information Systems (ACIS 2022), Melbourne, Australia, December 4 -7, 2022.
- *Program Committee (PC) Member*, the 18th International Conference on Advanced Data Mining and Applications (ADMA 2022), Melbourne, Australia, November 28-30, 2022.
- *Program Committee (PC) Member*, the 13th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN 2022), Leuven, Belgium, October 26-28, 2022.
- *Program Committee (PC) Member*, the 32nd Australian Conference on Information Systems (ACIS 2021), Sydney, Australia, December 08-10, 2021.

- *Reviewer*, the 33rd International Conference on Database and Expert Systems Applications (DEXA 2022), Vienna Austria, August 22-24, 2022.
- *Reviewer*, the 28th International Conference on Neural Information Processing (ICONIP 2021) , Sanur, Bali, Indonesia, December 8- 12, 2021.
- *Reviewer*, the 31st International Conference on Database and Expert Systems Applications (DEXA 2020), Bratislava, Slovakia, September 14-17, 2020.

Employment History

Educational

Dec 2011 – Present	■ Teaching Assistant. Computer Science Department, College of Computer at Al-leith, Umm Al-Qura University.
Jul 2011 – Oct 2011	■ Teaching Assistant. Computer Science Department, College of Computer Science and Engineering, Taibah University.
Mar 2011 – Jun 2011	■ Teaching Assistant. Computer Science Department, College of Computing and Information Technology, King Abdul-Aziz University.
Jul 2009 – Oct 2009	■ Trainee. Hydrocarbon Department, Administration Information Technology, Saudi Aramco Company.

Administrative

Aug 2012 – Feb 2014	■ Deputy Head. Computer Science Department, College of Computer at Al-leith, Umm Al-Qura University.
Apr 2012 – Aug 2012	■ Head. Computer Science Department, Al-Leith University College for Female Students, Umm Al-Qura University.

Skills

Languages	■ Strong reading, writing and speaking competencies for English language.
Advance Techniques	■ Deep Neural Networks, Natural language processing, Bayesian Non parametric, Clustering, Traditional machine learning, Evolutionary
Coding	■ Python, Keras, TensorFlow, JAVA, C++, SQL, C, HTML, DHTML, PHP, CSS, JavaScript, Servlet, JSP, Assemble
Misc.	■ Academic research, teaching, training, consultation, presetting and publishing.
Soft Skills	■ Problem Solving, Flexibility, Ability to Plan and Organize, Leadership, Adaptability



Awards and Achievements

2019– 2021	■ Academic Excellence Award , Saudi Arabian Cultural Mission in Australia, Ministry of Education.
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Awards and Achievements (continued)

- 2017  **Golden Key International Honour Society.**
- 2016  **Academic Excellence Award**, Saudi Arabian Cultural Mission in Australia, Ministry of Education.
- 2006– 2008  **Certificate of Academic Excellence**, King Abdul-Aziz University.

Teaching

- 2022  Introduction to Artificial Intelligence
- 2011 – 2014  Introduction to Information Science
Structured Programming
Analysis and logical design
Analysis and design of algorithms
Discrete Mathematics
Numerical calculation
Introduction to Computer Science
Advanced operating systems
Simulation and Modeling
Advance programming

Academic Activities

- Poster Presentations  Ingenuity 2017, The University of Adelaide, Adelaide, Australia.
Demo Day 6, 2011, King Abdul-Aziz University, Jeddah, Saudi Arabia.
- Conducting training courses  Preparing presentations inside classrooms, 2013, Al-Leith University College for Female Students, Umm Al-Qura University.
Research Methods and Evaluation of Websites, 2012, Al-Leith University College for Female Students, Umm Al-Qura University.
- Attending courses  Developing skills of smart application makers
Creative thinking skills
Introduction to Programming in Java
Computer Maintenance
Preparing for the technical vocational future
Getting rid of concerns and develop your productivity