

Hassan Alhuzali

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Research Interest

Natural Language Processing (NLP), Emotion Recognition and Analysis, Multi-label Emotion Classification, Affective Computing, Deep Learning, Deep Metric Learning

Education

PhD in Computer Science Jan 2019 – Jan 2022

The University of Manchester, *Manchester, UK*

Advisor: Prof. Sophia Ananiadou

Thesis: Neural Networks for Textual Emotion Recognition and Analysis

Master of Information Science Aug 2014 – May 2016

Indiana University-Bloomington, *USA*

Bachelor of Information Science July 2008 – March 2011

Umm Al-Qura University, *SA*

Professional Experience

Research Associate Sep 2021 – Present

The University of Manchester, *United Kingdom*

- ❖ Responsible for Carrying out research on Covid19 (Funded by Alan Turing Institute of AI)

Graduate Teaching Assistant Sep 2021 – Jan 2022

The University of Manchester, *United Kingdom*

- ❖ Responsible for TA Information Retrieval (IR) and Natural Language Processing (NLP)

Lecturer Aug 2018 – Dec 2018

Umm Al-Qura University, *Saudi Arabia*

- ❖ Responsible for teaching information retrieval and Python courses.

Graduate Assistant Aug 2017 – Aug 2018

University of British Columbia, *CA*

- ❖ Developed methods and models both for Arabic dialect identification and for Arabic abusive language
- ❖ Developed deep learning methods for textual emotion recognition

Visiting Student Researcher May 2016 – July 2016

Positive Psychology Center, *University of Pennsylvania, USA*

- ❖ Worked on collecting and mining a large amount of data from both Twitter and Facebook

Information Specialist Mar 2011 – Sep 2011

Prince Sultan College for Management and Tourism, *SA*

Publications

Journal Papers

- ❖ **Alhuzali, H., & Ananiadou, S. (2021).** Improving Textual Emotion Recognition Based on Intra- and Inter-Class Variation. *IEEE Transactions on Affective Computing* (In Press). [IF: 10.506]

Conference Papers

- ❖ **Alhuzali, H.**, & Ananiadou, S. (2021, April). SpanEmo: Casting Multi-label Emotion Classification as Span-prediction. In *Proceedings of the 16th Conference of the European Chapter of the Association for Computational Linguistics (EACL-2021): Main Volume* (pp. 1573-1584). [**Acceptance rate: 20%**]
- ❖ Abdul-Mageed, M. **Alhuzali, H.** & Elaraby, M. (2018). You Tweet What You Speak: A City-Level Dataset of Arabic Dialects. *The 11th International Conference on Language Resources and Evaluation (LREC2018)*, 7-12 May 2018, Miyazaki (Japan).

Workshop Papers

- ❖ **Alhuzali, H.**, Zhang, T & Ananiadou, S. (2021). Predicting Sign of Depression via Using Frozen Pre-trained Models and Random Forest Classifier. In CLEF-2021.
- ❖ **Alhuzali, H.**, & Ananiadou, S. (2019, August). Improving classification of Adverse Drug Reactions through Using Sentiment Analysis and Transfer Learning. In *Proceedings of the 18th BioNLP Workshop and Shared Task* (pp. 339-347).
- ❖ **Alhuzali, H.**, Elaraby, M., & Abdul-Mageed, M. (2018). UBC-NLP at IEST 2018: Learning Implicit Emotion with an Ensemble of Language Models. In *Proceedings of the 9th Workshop on Computational Approaches to Subjectivity, Sentiment & Social Media Analysis (WASSA)*, co-located with EMNLP-2018, Brussels, Belgium.
- ❖ **Alhuzali, H.**, Abdul-Mageed, M., & Ungar, L. (2018). Enabling Deep Learning of Emotion with First-Person Seed Expressions. *The 2nd Workshop on Computational Modeling of People's emotion in Social Media (PEOPLES)*, co-located with (NAACL-HLT2018), New Orleans, Louisiana.

Invited Talks

- Jul 2018 Learning Implicit Emotion with an Ensemble of Language Models, Computational Linguistic Summer School, *UBC*
- Jun 2018 Emotion and Dialect projects, NLP Lab, *UBC*
- Mar 2018 Emotion detection in social media, iSchool Research Day, *UBC*
- Aug 2017 Emotion detection with Hybrid Supervision, Department of Linguistic, *UBC*

Awards & Scholarship

- 2019 PHD scholarship from Al-Qura University (3-year)
- 2017 SACB Student Award (\$2100 CAD)

Skills & Misc.

Programming→ Python (Advanced) & UNIX (Basic)

Machine and deep learning tools→ Sk-learn & PyTorch

Writing tools→ Microsoft Word & LaTeX

Reviewing→ Journal of Artificial Intelligence/Information Fusion, ACL-2022, IEEE-BIBM'21, EMNLP-2021, Coling-2020, ACL-2020, & LREC-2020

Volunteering→ Translator, iSchool Symposium, & ACL-2020

Workshops→ LxMLs-2019, Text-Analytics-2018, & West-Grid-Research-Computing-2017

Languages→ Arabic & English