

Noureldien Hussein

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Summary

Fourth-year PhD candidate in computer vision, with focus on video analytics. As a prospective research intern, I would like to help in advancing methods for understanding human activities in videos at industrial scale.

Education

- 2016 - 2020 **University of Amsterdam** - PhD Candidate - Computer Vision - Netherlands
 - Research: action recognition, temporal modeling, video description, visual storytelling
 - Advisors: Arnold Smeulders, Efstratios Gavves
- 2014 - 2016 **University of Southampton** - MSc Artificial Intelligence - 3.5/4.0 (Merit) - UK
 - Computer Vision · Machine Learning · Intelligent Agents · Computational Finance
 - Thesis: End-to-end Hierarchical CNN for Large-Scale Traffic Sign Detection and Recognition
- 2005 - 2012 **Ain Shams University** - BSc Computer and System Engineering - 2.8/4.0 (Good) - Egypt
 - Software Engineering · Neural Networks · Operating Systems · Computer Networks
 - Data Structures and Algorithms · Computer Security · Computer Architecture
 - Thesis: Arabic Sign Language Recognition in Real Time (Distinction, Award-winning)

Publications

- 2019 **VideoGraph: Recognizing Minutes-Long Human Activities in Videos**, [N. Hussein](#), E. Gavves and A.W.M. Smeulders, Under Review.
- 2019 **Timeception for Complex Action Recognition**, [N. Hussein](#), E. Gavves and A.W.M. Smeulders, in CVPR - **Oral Presentation**.
- 2017 **Unified Embedding and Metric Learning for Zero-Exemplar Event Detection**, [N. Hussein](#), E. Gavves and A.W.M. Smeulders, in CVPR.
- 2016 **University of Amsterdam and Renmin University at TRECVID 2016: Searching Videos, Detecting Events and Describing Videos**, C.G.M. Snoek, J. Dong, X. Li, X. Wang, Q. Wei, W. Lan E. Gavves, [N. Hussein](#), D.C. Koelma and A.W.M. Smeulders, in TRECVID Workshop.

Professional Experience

- 01.16 - 05.20 **Research and Teaching Assistant** - University of Amsterdam - Netherlands
 - Conduct world-class research published in top conferences: CVPR
 - Co-supervising MSc/BSc thesis projects, and assisting in teaching BSc subjects
 - Reviewer for conferences and journals: IEEE-ToM, ACM-MM16, ICCV17, CVPR17, CVPR18
 - Helped in organizing academic conferences: ECCV16, ACM-MM16
- 05.13 - 05.14 **Breeze IT** - Software Developer - UK
 - Designed/developed web and mobile solutions using C#, ASP.Net, MVC, Xamarin
 - Developed educational, augmented reality app for iPad using C#, Unity3D
- 11.12 - 04.13 **ITWorx** - Software Development Engineer - Egypt
 - Saved 60% of server monitoring time by developing automated-monitoring tool
 - Proof of concept and investigation for integrating different technologies

Teaching Experience

- Thesis Supervision**
 - 2019 Multi-Modal Detection for Boats using Vision and Radar, J. Buhagiar - MSc Artificial Intelligence
 - 2018 Improving Word Embeddings for Zero-Shot Event Localisation by Combining Relational Knowledge with Distributional Semantics, J.L. Pascha - MSc Artificial Intelligence
 - 2017 Real-Time Composing of Restaurant Label Classifiers Utilizing Semantic Word Similarity, T. Nguyen, N. Hussein and E. Gavves - BSc Artificial Intelligence
- Teaching Assistance**
 - 2016, 2018 Autonomous Mobile Robots - BSc Computer Science, Artificial Intelligence
 - 2017 Information Visualization - BSc Computer Science

Patents

2018 | Unified Embedding and Metric Learning for Zero-Exemplar Event Detection, US 20180137360A1

Grants

2012 | \$50k angel funding from Microsoft to start-up our health-care platform HealthBuzz - USA

Awards

2015 | 1st place in Kaggle in-class competition for recommender systems
2012 | 3rd place in Microsoft Imagine Cup Grant competition, \$50k angel funding - USA
2012 | 1st place worldwide, Windows Phone category, Microsoft Imagine Cup, \$8k prize - Australia
2010 | 1st place in Software Design, Imagine Cup Egypt, competed in the world finals - Poland

Invited Talks

2012 | "The road to start-up your idea", Social Innovation Summit - USA
2012 | "How I led my team to win the 1st place", Microsoft Middle East Annual Meeting - Turkey

Technical Skills

- Deep learning: Keras, TensorFlow, PyTorch, Caffe2, Gensim, Nltk
- Scientific: OpenCV, Scikit-Image, PyLearn, Scikit-Learn, SciPy
- Programming: Python, C#, Java, Matlab, HTML, JavaScript, C++
- Software development: web, mobile, database, algorithms, data structures

Languages

- English: Excellent command, TOEFL iBT: 108/120 (07.2015)
- Arabic: Native

Last update: May 3, 2019