

# Omid Mohamad Nezami

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## Research Interests

My main research interest centres on Deep Learning, Natural Language Processing, Computer Vision and Robotics. My current focus is on deep learning models (e.g., Seq2Seq, Faster R-CNN) of controlled image captioning to incorporate particular additional information. I am working under the supervision of Prof. Mark Dras and Dr. Len Hamey at Macquarie University. I also work under the supervision of Dr. Stephen Wan and Dr. Cecile Paris at Data61.

## Education

- 2016–2019 **PhD Candidate in Computer Science**, *Macquarie University*, Sydney, Australia.  
Scholarships: International Macquarie University Research Excellence Scholarship (iMQRES) and Data61 Top-up Scholarship.
- 2008–2011 **M.Sc. in Computer Engineering**, *Azad University*, Qazvin, Iran.  
Scholarship: Mechatronics Research Laboratory (MRL) Scholarship.
- 2004–2008 **B.Sc. in Computer Engineering**, *Azad University*, Qazvin, Iran.  
Scholarship: Mechatronics Research Laboratory (MRL) Scholarship.

## Publications

Omid Mohamad Nezami, Mark Dras, Stephen Wan, Cécile Paris, and Len Hamey. Towards Generating Stylized Image Captions via Adversarial Training. In *Pacific Rim International Conference on Artificial Intelligence*, pages 270–284. Springer, 2019.

Omid Mohamad Nezami, Mark Dras, Len Hamey, Deborah Richards, Stephen Wan, and Cécile Paris. Automatic Recognition of Student Engagement using Deep Learning and Facial Expression. In *Joint European Conference on Machine Learning and Knowledge Discovery in Databases*. Springer, 2019.

Omid Mohamad Nezami, Paria Jamshid Lou, and Mansoureh Karami. ShEMO: A Large-Scale Validated Database for Persian Speech Emotion Detection. *Language Resources and Evaluation*, 53(1):1–16, 2019.

Omid Mohamad Nezami, Mark Dras, Peter Anderson, and Len Hamey. Face-Cap: Image Captioning using Facial Expression Analysis. In *Joint European Conference on Machine Learning and Knowledge Discovery in Databases*, pages 226–240. Springer, 2018.

Omid Mohamad Nezami, Deborah Richards, and Len Hamey. Semi-Supervised Detection of Student Engagement. In *Pacific-Asia Conference on Information Systems*, 2017.

Anvar Bahrampour and Omid Mohamad Nezami. Diversity Guided Particle Swarm Optimization Algorithm Based on Search Space Awareness Particle Dispersion

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(DGPSO). In *Proceedings of the World Congress in Computer Science, Computer Engineering and Applied Computing (WorldComp)*, 2013.

Omid Mohamad Nezami, Anvar Bahrapour, and Paria Jamshid Lou. Dynamic Diversity Enhancement in Particle Swarm Optimization (DDEPSO) Algorithm for Preventing from Premature Convergence. *Procedia Computer Science*, 24:54–65, 2013.

Omid Mohamad Nezami and Anvar Bahrapour. Particle Swarm Optimization algorithm Based on Diversified Artificial Particles (PSO-DAP). In *Proceedings of the Iranian Conference on Intelligent Systems*, 2013.

Omid Mohamad Nezami and Mohammad Reza Meybodi. Biped Robot Walking using a Combination of Truncated Fourier Series and GALA. In *Proceedings of International Conference on Machine Learning and Computing*, pages 442–447, 2011.

Nima Shafii, Siavash Aslani, Omid Mohamad Nezami, and Saeed Shiry. Evolution of Biped Walking using Truncated Fourier Series and Particle Swarm Optimization. In *Proceedings of Robot Soccer World Cup*, pages 344–354. Springer, 2009.

Nima Shafii, Siavash Aslani, Sayed Javadi, Vahid Azizi, and Omid Mohamad Nezami. Robust Humanoid Walking using Truncated Fourier Series Gait Generator. In *Proceedings of Robot Soccer Iran Open*, 2009.

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## Awards

- 2018 Awarded Macquarie University Postgraduate Research Fund (PGRF). Sydney, Australia.
- 2018 Awarded Data61 CSIRO Top-up Scholarship. Sydney, Australia.
- 2017 Awarded for the Best Industry Poster. Macquarie University, Sydney, Australia.
- 2016 Awarded International Macquarie University Research Excellence Scholarship (iMQRES). Sydney, Australia.
- 2010 3<sup>rd</sup> place in RoboCup in the Mixed Reality League, Singapore.
- 2010 1<sup>st</sup> place in RoboCup Iran Open in the Mixed Reality League, Tehran, Iran.
- 2010 1<sup>st</sup> place in RoboCup Iran Open-Technical Challenge, Tehran, Iran.
- 2009 4<sup>th</sup> place in RoboCup in the Mixed Reality League, Graz, Austria.
- 2009 1<sup>st</sup> place in RoboCup Iran Open in the Mixed Reality League, Qazvin, Iran.
- 2008 Awarded Mechatronics Research Laboratory (MRL) Scholarship, Qazvin, Iran.
- 2008 1<sup>st</sup> place in RoboCup in the 3D Soccer Simulation League, Suzhou, China.
- 2004 Awarded Undergraduate Mechatronics Research Laboratory (MRL) Scholarship, Qazvin, Iran.

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## Experience

- 2020 **Reviewer**, *The AAAI Conference on Artificial Intelligence*, New York, USA.
- 2019 **Reviewer**, *The Conference on Empirical Methods in Natural Language Processing (EMNLP)*, Hong Kong, China.
- 2019 **Research Scientist**, *Telstra*, Australia.
- 2018–2019 **Tutor**, *Macquarie University*, Australia.
- 2018–2019 **Research Assistant**, *Macquarie University*, Australia.
- 2011–2016 **Lecturer**, *Azad University*, Iran.
- 2011–2016 **Research Scientist**, *Azad University*, Iran.
- 2011–2014 **Technical Committee**, *RoboCup*, Iran.
- 2008–2011 **Research Scientist**, *Mechatronics Research Laboratory (MRL)*, Iran.
- 2004–2008 **Software Developer**, *Mechatronics Research Laboratory (MRL)*, Iran.

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## Languages

English    Fluent  
Kurdish    Fluent  
Persian    Native

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## References

Principle  
Supervisor

Prof. Mark Dras  
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Associate  
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Dr. Len Hamey  
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