

Zetao Chen

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Contact Details

Zetao Chen | Research Fellow | School of Electronic Engineering and Computer Science
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Research Interest:

Robot Localization; Biologically-inspired Robotics; Machine Learning

Working Experience:

11/2016 - present Research fellow in ETH Zurich working in robot localization and SLAM.

05/2016 - 09/2016 Postdoc Fellow in QUT

Teaching:

Guest lecturer in the course "**Autonomous Mobile Robots**" at ETH, Zurich

Education:

11/2012 – 05/2016 PhD Candidate in Robotics PhD thesis: [Biologically-inspired Place Recognition with Neural Networks](#);

Queensland University of Technology

09/2010 - 09/2012: Master with distinction In Artificial Intelligence (**HSP Huygens Scholarship** receipt 173 out of 2300)

University of Groningen (Netherlands)

Thesis Topic: Supervised Feature Selection Based on Generalized Matrix Learning Vector Quantization (http://www.ai.rug.nl/~mwiering/MasterThesis_ZetaoChen.pdf)

09/2005 - 07/2009: Bachelor with honours in Information Engineering

South China University of Technology

Supervisor:

Principal Supervisor: [Dr. Michael Milford](#).

Associate Supervisor: [Prof. Gordon Wyeth](#).

Associate Supervisor: [Prof. Peter Corke](#) .

Complete Publication Lists

Journal Paper

Adam Jacobson, **Zetao Chen** and Michael Milford, "Autonomous Multi-Sensor Calibration and Closed Loop Fusion for SLAM", (accepted) *Journal of Field Robotics (JFR)*.

Zetao Chen, Stephanie Lowry, Adam Jacobson, Michael E. Hasselmo and Michael Milford, "Bio-inspired Homogenous Multi-scale Place Recognition", *International Journal of Neural Network*, 2015

Chen Fan, **Zetao Chen**, Adam Jacobson, Xiaoping Hu, Michael Milford, "[Biologically-inspired visual place recognition with adaptive multiple scales](#)", *Robotics and Autonomous Systems (RAS)*, 2017

Conference Paper

Xutao Li, **Zetao Chen**, Shouyong Wang, "An Approximate Representation of Heavy-tailed Noise: Bi-parameter Cauchy-Gaussian Mixture Model", in *9th International Conference on Signal Processing*, 2008.

Yi-li Chen, Lian-wen Jin+, **Zetao Chen**, Xu-tao Li, Chu-jia Huang, Zhen-hua Feng, "A New Method for Facial Beauty Assessment", in *Chinese Conference on Pattern Recognition 2008*.

Zetao Chen, Lian-wen Jin, Xu-tao Li, Yi-li Chen, Chu-jia Huang, Zhen-hua Feng, "Facial Feature Contour Extraction Using Improved Snake Mode", in *the 2009 International Forum on Information Technology and Application*.

Adam Jacobson, **Zetao Chen** and Michael Milford, "Autonomous Movement-Driven Place Recognition Calibration for Generic Multi-Sensor Robot Platforms", (Accepted) in 2013 Intelligent Robots and Systems conference (IROS 2013).

Zetao Chen, Adam Jacobson, Ugur M. Erdem, Michael E. Hasselmo and Michael Milford, "Bio-inspired Place Recognition over Multiple Spatial Scales", *Australia Conference on Robotics and Automation*, 2013 (**Best Paper Award**).

Zetao Chen, Adam Jacobson, Ugur M. Erdem, Michael E. Hasselmo, and Michael Milford, "Multi-scale Bio-inspired Place Recognition", (Accepted) *International Conference on Robotics and Automation (ICRA)*, 2014.

Zetao Chen, Obadiah Lam, Adam Jacobson, Michael Milford. "Convolutional Neural Network-based Place Recognition", *Australia Conference on Robotics and Automation*, 2014 (**Best Paper Finalist**).

Zetao Chen, Stephanie Lowry, Adam Jacobson, Zongyuan Ge and Michael Milford. "Distance Metric Learning for Feature-Agnostic Place Recognition", 2015 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2015), hamburg.

Adam Jacobson, **Zetao Chen**, Michael Milford, "Online Place Recognition Calibration for Out-of-The-Box SLAM", 2015 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2015), hamburg.

Zetao Chen, Adam Jacobson, Niko Sünderhauf, Ben Upcroft, Lingqiao Liu, Chunhua Shen, Ian Reid, Michael Milford, "Deep Learning Features at Scale for Visual Place Recognition", *International Conference on Robotics and Automation (ICRA)*, [data and code](#), 2017.

Zetao Chen, Fabiola Maffra, Inkyu Sa, Margarita Chli, "Only Look Once, Mining Distinctive Landmarks from ConvNet for Visual Place Recognition", 2017 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2017)

ZongYuan Ge, Sergey Demyanov, **Zetao Chen**, Rahil Garnavi, "Generative OpenMax for Multi-Class Open Set Classification", British Machine Vision Conference (BMVC), 2017

Patent:

A video based method for facial beauty assess