Eu Wern Teh

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Summary

I am a first year Ph.D. student in the School of Engineering at the University of Guelph where I am advised by Prof. Graham Taylor. I received both of my M.Sc. and B.Sc degree in Computer Science from the University of Manitoba. My research is focused on Deep Learning and its applications in Computer Vision.

Experience

Machine Learning Group, School of Enginnering   University of Guelph, Guelph, Canada
Graduate Research Assistant   *Sep '17 – present*
Researching deep learning techniques to solve various computer vision task (e.g. fully supervised and weakly supervised temporal action detection, semantic segmentation, human pose estimation)

Computer Vision Lab   University of Manitoba, Winnipeg, Canada
Graduate Research Assistant   *Sep '15 – Sep '17*
Researched on deep learning techniques to solve computer vision task. My thesis is about solving weakly supervised object localization via attention-based network. In addition, I also worked on domain adaptation and transfer Learning from image to video dataset for weakly supervised object localization and detection.

University of Manitoba   Winnipeg, Manitoba, Canada
Graduate Teaching Assistant and Course Grader   *Sep '15 – Sep '17*
Teaching and guiding students on lab assignments for COMP2160 (Programming Practices) course. Grading students' assignment for COMP2080 (Analysis of Algorithm) course.

Johnston Group   Winnipeg, Manitoba, Canada
Application Developer   *Jul '11 – Sep '15*
Developed and maintained a) Biling inquiry System b) Insurance administrative system c) Advisor sales and projection system and d) Insurance quoting system

Education

University of Manitoba   Winnipeg, Manitoba, Canada
Ph.D. in Engineering   *2017 – present*
Courses: Introduction to Machine Learning, Deep Learning

University of Manitoba   Winnipeg, Manitoba, Canada
M.Sc. in Computer Science, CGPA: 4.2 / 4.5   *2015 – 2017*
Thesis: *Weakly Supervised Object Localization Using Attention-based Neural Networks.*

Courses: Probabilistic Graphical Models, Computational Perception & Cognition, Parallel Computing, Graph Drawing, Research Methodologies.

University of Manitoba   Winnipeg, Manitoba, Canada
B.Sc. in Computer Science & Engineering, CGPA: 3.71 / 4.5   *2006 – 2011*

Skills

Research expertise: Deep Learning, Computer Vision, Convolutional Neural Network (CNN), Recurrent Neural Network, Attention based Networks, Machine Learning

Deep Learning/Machine Learning Framework: Torch, PyTorch, TensorFlow, Caffe, MatconvNet, Scikit-learn, libsvm

Technical expertise: C++, Python, Matlab, Lua, C, R, PHP, C#, Java, JavaScript, SQL, RPGLE, CLLE

Others: Linux, Eclipse, tmux, Visual Studio, Microsoft SQL Server, Oracle, Latex, ASP.net, Team Foundation Server, RStudio, Git, Gitlab, Github

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Publications

Eu Wern, Teh., Zhenyu, Guo., and Yang, Wang. (2017) Object Localization in Weakly Labeled Data Using Regularized Attention Networks. In Proceedings of the IEEE Visual Communications and Image Processing (poster presentation, master thesis)

Omit, Chanda., **Eu Wern, Teh.**, Mrigank, Rochan., Zhenyu, Guo., and Yang, Wang. (2017) Adapting Object Detectors from Images to Weakly Labeled Videos. In Proceedings of the British Machine Vision Conference (poster presentation)

Eu Wern, Teh., Mrigank, Rochan., and Yang, Wang. (2016) Attention networks for weakly supervised object localization. In Proceedings of the British Machine Vision Conference (poster presentation, master thesis)

Leung, Carson Kai-Sang., Christopher L. Carmichael., and **Eu Wern, Teh.** (2011) "Visual Analytics of Social Networks: Mining and Visualizing Co-authorship Networks." In Proceedings of the HCI International conference, pp. 335-345 (oral presentation, undergraduate research project)

Papers Under Review

Eu Wern, Teh., Mrigank, Rochan., Zhen Yu, Guo., and Yang, Wang. (2017) Weakly Supervised Object Localization Usng Attention-based Neural Networks. In Image and Vision Computing journal (master thesis)

Honors & Awards

Graduate Excellence Entrance Scholarship (GEES), University of Guelph, 2017.

Graduate Enhancement of Tri-Council Stipends (GETS), University of Manitoba, 2015 - 2017.

Conference Travel Grant, Department of Computer Science and Faculty of Science, University of Manitoba, 2016.

International Undergraduate Student Scholarship, University of Manitoba, 2007 - 2008.

Professional Services

External reviewer at **NIPS 2016**

External reviewer at **CVPR 2017**

References

Graham Taylor (Associate Professor at University of Guelph)
  email: gwtaylor@uoguelph.ca
  contact: 519-824-4120 (ext:53644)

Yang Wang (Assistant Professor at University of Manitoba)
  email: ywang@cs.umanitoba.ca
  contact: 204-474-9740

Neil D.B. Bruce (Assistant Professor at University of Manitoba)
  email: bruce@cs.umanitoba.ca
  contact: 204-474-7313