I-Ta Lee

https://doug919.github.io/

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LIFE PHILOSOPHY

"A man's worth is no greater than his ambitions." –Marcus Aurelius

EDUCATION

PURDUE UNIVERSITY
Ph.D. in Computer Science
Expected Aug. 2015 - May 2020 | West Lafayette, IN
- Deep/Machine Learning and Natural Language Processing
- Event Embeddings, Commonsense Modeling, Narrative Scripts
GPA: 3.82 / 4.0

NATIONAL TSING HUA UNIVERSITY
M.S. in Computer Science
Sep. 2008 – Aug. 2010 | Hsinchu, Taiwan
- Wireless Mobile Ad Hoc Networks
GPA: 4.0 / 4.0

YUAN ZE UNIVERSITY
B.S. in Computer Science & Engineering
Sep. 2004 – June 2008 | Taoyuan, Taiwan
GPA: 3.96 / 4.0

SKILLS

PROGRAMMING
Proficient:
Python • C • C++ • Java
Git • Shell • PyTorch • Tensorflow
Familiar:
Visual Studio • Makefile • Batch
Past:
System Programming • Socket
Embedded Systems • TCP/IP

RESEARCH
Deep Learning • Machine Learning
Natural Language Processing
Embeddings • Commonsense Modeling
Sequence Modeling

STRENGTHS
Hard-working (18/24) • Responsibility
Leadership

LANGUAGES
English • Chinese

RESEARCH

PURDUE NLP LAB. | Research & Teaching Assistant
Aug. 2015 – Present | West Lafayette, IN
- Research: Event Embedding, Commonsense Inference, Narrative Scripts
- Teaching: Deep Learning, Object-Oriented Programming in Java, C Programming

NLP LAB @ ACADEMIA SINICA | Research Assistant
Jan. 2015 – July 2015 | Taipei, Taiwan
- Emotion Analysis on Text

WIRELESS MOBILE NETWORK LAB. @ NTHU | Research & Teaching Assistant
2009 – 2010 | Hsinchu, Taiwan
- Multi-cast Routing, Wireless Ad Hoc Networks, Vehicular Ad Hoc Networks

EXPERIENCE

HEWLETT PACKARD ENTERPRISE | Research Intern
May 2017 – Aug. 2017 | Sunnyvale, CA
- Threat/outlier detection in netflow data (Tensorflow)

TRENDMICRO INC. | Senior Software Engineer
Oct. 2013 – Sep. 2014 | Taipei, Taiwan
- Participated in developing the first-version of TrendMicro APT solutions.

MOXA INC. | Senior Software Engineer
Oct. 2010 – Sep. 2013 | New Taipei City, Taiwan
- Software development for networking devices (TCP/IP, UART, Zigbee)
- Led software development for the first Moxa Zigbee device. Presented the design to 400+ engineers.

PUBLICATIONS

CONFERENCE PROCEEDINGS
- I-Ta Lee, and Dan Goldwasser, "FEEL: Featured Event Embedding Learning," in AAAI (2018)
- Kristen Johnson, I-Ta Lee, and Dan Goldwasser, "Ideological Phrase Indicators for Classification of Political Discourse Framing on Twitter," in NLP+CSS (2017)
- I-Ta Lee, et al., "PurdueNLP at SemEval-2017 task 1: Predicting Semantic Textual Similarity with Paraphrase and Event Embeddings," in Proc. Of SemEval (2017)
- Maria L. Pacheco, I-Ta Lee, Xiao Zhang, A. K. Zehady, P. Daga, Di Jin, A. Parolia, and D. Goldwasser, "Adapting Event Embeddings for Implicit Discourse Relation Recognition," in CONLL (2016)
- I-Ta Lee, Tzu-Yi Lin, Yu-Lu Liu and Tein-Yaw Chung, "A Design and Implementation of an iSCSI-based Wireless Remote Video Storage System," in National Computer Symposium (2007)

JOURNALS
- I-Ta Lee, Guann-Long Chiou, and Shun-Ren Yang, "A Cooperative Multicast Routing Protocol for Mobile Ad Hoc Networks," in Elsevier Journal of Computer Networks, Volume 55, Issue 10, 14 July 2011, pp. 2407–2424.

PROJECTS

FEEL: FEATURED EVENT EMBEDDING LEARNING | HTTPS://GOO.GL/MQPD2G
Feb. 2018 | AAAI 18'| New Orleans, LA
* feature-enriched event embeddings for commonsense inference

FEATURE LEARNING FOR SECURITY DATA | HTTPS://GOO.GL/T5OSAQ
Aug. 2017 | HPE | Sunnyvale, CA
* threat detection in netflow data using LSTM+attention

PREDICTING SEMANTIC TEXTUAL SIMILARITY WITH PARAPHRASE AND EVENT EMBEDDINGS | HTTPS://GOO.GL/IAKDFY
Aug. 2017 | SemEval 17' | Vancouver, Canada
* learning skip-gram event embeddeings and paraphrase embeddings with DSSM-like convolutional neural networks

ADAPTING EVENT EMBEDDINGS FOR IMPLICIT DISCOURSE RELATION RECOGNITION | HTTP://GOO.GL/ATC279
Aug. 2016 | CoNLL 16' | Berlin, Germany
* improve implicit discourse relation classifications by event embeddings

DEEP DISCOVERY ENDPOINT SENSOR V1.0 | HTTP://GOO.GL/R5A9PR
2014 | TrendMicro Inc. | Taipei, Taiwan
* a large-scale C++-based software solution for threat detection
* based on YARA—an open-source memory scan and hook solution

ZIGBEE NETWORK GATEWAY AND CONVERTER | HTTP://GOO.GL/7L1KCX
2013 | Moxa Inc. | New Taipei City, Taiwan
* developed a family of Zigbee devices
* implemented with C language on two real-time operating systems.

AIR POLLUTION SENSING SYSTEM IN VEHICULAR AD HOC NETWORK | HTTP://GOO.GL/YDPEZC
2010 | NTHU | New Taipei City, Taiwan
* led a team to implement a client-server architecture to collect air quality sensor data from vehicles.

A MALICIOUS MESSAGE FILTER ON MSN LIVE MESSENGER | HTTP://GOO.GL/DNHUKK
2007 | YZU | Taoyuan, Taiwan
* a malicious message filter based on Naïve Bayes classifier in an instant messaging client

HONORS

AWARDS
* Presidential Awards from Yuan Ze University (x4) (ranked 1/126 each year)
* Honorary Member of the Phi Tau Phi Scholastic Honor Society
* Certificate of Outstanding Achievement in IEEE Yuan Ze University Student Branch

SCHOLARSHIPS
* Student Scholarship Program from AAAI 2018
* Great Academic Achievement from Yuan Ze University (x3)
* Great Academic Achievement from Inventec Appliances OKWAP
* Great Academic Achievement from LiMing Corporation (x3)
* Taipei Zhung Zhen Foundation (x2)