SHIH-MING "Mingo" WANG

PERSONAL DATA

EMAIL: swang150@ucsc.edu
HOMEPAGE: http://ipod825.github.io/

EDUCATION

University of California, Santa Cruz

2016-PRESENT | Pursuing a PhD in Computer Science National Taiwan University (Best Ranked in Taiwan)

JUNE 2014 M.S. in Electrical Engineering, majoring Computer Science (Gpa: 4.21/4.3)

♦ Thesis title: Investigation on Optimal Mixing with Linkage Sets and Its Application

♦ Thesis advisor: Prof. Tian-Li Yu

JUNE 2012 B.S. in Electrical Engineering (Gpa:81.74/100)

PREVIOUS PROJECTS

• Keraflow(Python): Open source project implementing a deep Learning library for Theano and Tensorflow, following Keras API.

- Chinese OCR(Matlab): Course project for the OCR contest in machine learning class (NTU).
- ChenLianYen(Javascript): Course project implementing a web-based RPG game.

RESEARCH EXPERIENCE

Academia Sinica (National academy of Taiwan)

- Augmented NTUSD: Built a Chinese sentiment dictionary containing polarity infomation of words for use of research on sentiment analysis. Designed experiments to test the applicability of the dictionary.
- Chinese Sentiment Analysis: Applied word embedding as feature to determine sentiment polarity of each Chinese word using a neural network model.

National Taiwan University

- LTGA Improvement: Analyzed on a theoretical basis how the linkage-tee genetic algorithm (LTGA) utilizes its linkage model and improved LTGA by applying a dynamic model throughout the optimizing process.
- GA Benchmark Design: Analyzed on a theoretical basis what problems are difficult for genetic algorithms (GA-hard) and designed a benchmark with controllable problem complexity for testing modern GAs.
- Animated Photo: Implemented a system that takes single face photo as input and generates animated photos. Technique involves: face recognition, face modeling, image morphing.

WORK EXPERIENCE

SEP. 2016	Teaching Assistant, CS Department, UCSC
	♦ Course: Introduction to Programming in Python
	♦ Gave extra lectures regarding assignments. Graded homework exams
Aug. 2015	Research Assistant, NLPLab, Academia Sinica
AUG. 2014	Mandatory National Substitute Service, Environmental Protection Bureau of Taichung City Gov-
	ernment
	♦ Wrote web applications
FEB. 2014	Teaching Assistant, CS Division, EE Department, NTU
	♦ Courses: Probability and Statistics, Algorithm, Genetic Algorithm
	♦ Prepared reviewing material and gave reviewing lectures. Gave extra lectures for challenged
	students. Graded homework & exams
FEB. 2012	System Manager, TEILAB, CS Division, EE Department, NTU
	♦ Maintained web, nfe, nis server and laboratory cluster

PUBLICATION & PRESENTATION

Wang, Shih-Ming, Lun-Wei, Ku ANTUSD: A Large Chinese Sentiment Dictionary. LREC. 2016

Shih-Ming Wang, Yu-Fan Tung, and Tian-Li Yu, *Investigation on Efficiency of Optimal Mixing on Various Linkage Sets*. In Proceedings of the IEEE Congress on Evolutionary Computation (CEC), 2014. \$\infty\$ Gave oral presentation at International Convention Center, Beijing, China

Shih-Ming Wang, Jie-Wei Wu, Wei-Ming Chen, and Tian-Li Yu, *Design of Test Problems for Discrete Estimation of Distribution Algorithms*. In Proceedings of Conference on Genetic and Evolutionary Computation (GECCO), 2013.

ACHIEVEMENT & AWARDS

2014	Travel Grant of Domestic Graduate Attending International Symposiums, Ministry of Sci-
	ence and Technology, Taiwan
2013	Graduate Teaching Assistantship, CS Division, EE Department, NTU

SELECTED EXTRACURRICULAR

2012-2014	Member, Swimming Team of Medicine School, NTU
2010-2011	Deputy Director of Activities, Taichung Alumni Club
2010	Convener, Taichung Alumni Club Summer Camp, NTU
2006	Treasurer, Harmonica Club, TCFSH

SKILLS

Programming: C/C++, Java, Javascript, Python, MATLAB®

Languages: Chinese (native), English (fluent), Taiwanese (intermediate)