

SHIH-MING “Mingo” WANG

PERSONAL DATA

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

EDUCATION

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)

RESEARCH EXPERIENCE

Academia Sinica (National academy of Taiwan)

- **Augmented NTUSD:** Built a Chinese sentiment dictionary containing polarity information 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-tree 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

AUG. 2015 | **Research Assistant**, NLP Lab, Academia Sinica
AUG. 2014 | **Mandatory National Substitute Service**, Environmental Protection Bureau of Taichung City Government
 ◇ Wrote web applications; Carried out paper work
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.

 ◇ 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

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

SELECTED EXTRACURRICULAR

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| 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, Python, MATLAB®

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