Ming-Chang Chiu

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RESEARCH INTERESTS	My research interests are in computer cognition, robotics, machine learning, data analysis and high-performance computing. I am particularly interested in the programming and design of accelerator to deal with massive data in quasi-real time.

EDUCATION

National Tsing Hua University (NTHU), Hsinchu, Taiwan

Bachelor of Science (B.S.) in Electrical Engineering
and Computer Science   Sep 2011 – Jun 2015
- Areas of Interest: Computer Vision, Large-Scale Computing.
- Cumulative GPA: 3.82 / 4.30 (Excluding credits earned at University of Minnesota)
- Last 60 GPA: 4.05 / 4.30 (Excluding credits earned at University of Minnesota)

University of Minnesota, Twin-Cities, Minnesota, USA
Exchange Student in Computer Science and Engineering   Sep 2014 – Dec 2014
- Introduction to Intelligent Robotics (A)
- Advanced Programming Principles (A)
- Cumulative GPA: 4.0 / 4.0, 15 credits

Tsinghua University, Beijing, China
Summer Exchange Student in Computer Science   Aug 2012 – Sep 2012
- GUI design with Qt
- Construct a search engine with Python

RESEARCH EXPERIENCE

Visual Science Laboratory, Department of Electrical Engineering, NTHU
Undergraduate Research Student   Feb 2015 – Sep 2015
- Construct image change detection system
- Build Google Street View and dash camera video matching system

Large-Scale System Architecture Laboratory, Department of Computer Science, NTHU
Undergraduate Research Student   Jul 2013 – Aug 2014
- Use Hadoop benchmark (HiBench) to test performance of processing different types of data on distributed system.
- Apply machine learning algorithms to discern types of incoming data and do operating disk rescheduling.

PUBLICATIONS

K.-T. Chen, Ming-Chang Chiu, F.-H. Chan, F.-E. Wang, Min Sun, "Dashcam Videos for Street View Change Detection," submitted to *IEEE International Conference on Multimedia and Expo (ICME) 2016*

ACADEMIC HONORS & AWARDS

Honorary Member of Phi Tau Phi Scholastic Society	2015
Excellent Study Group Award, NTHU	2015
2014 National Tsing Hua University International Exchange Scholarship, College of EECS	2014

PROFESSIONAL AFFILIATIONS & ACTIVITIES

Broadsound Corporation, Jupei City, Hsinchu, Taiwan.   Jul 2013 – Sep 2013
Intern
- Product: Wind Gauge, Ultrasound Replacement Transducers, Marketing Research

CAMPUS ACTIVITIES

NTHU Orchestra, National Tsing Hua University
Vice President   Jul 2012 – Jun 2013
Student Council, National Tsing Hua University
Counselor   Jul 2012 – Jun 2013

TECHNICAL SKILLS

- Programming Languages: C/C++ (Qt), Ocaml, Java, Python, PHP, Javascript, Scala, R, Verilog, LaTeX
- Engineering Software: MATLAB, HSPICE, Cadence

REFERENCES

Professor Min Sun
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Professor Jerry Chou
National Tsing Hua University
Department of Computer Science
Email: jchou@cs.nthu.edu.tw

Professor Stergios Roumeliotis
University of Minnesota, Twin Cities
Department of Computer Science and Engineering
Email: stergios@cs.umn.edu