Hui-Ju Hung (洪慧儒)

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EDUCATION

Pennsylvania State University (PSU), State College, PA, USA
Ph.D, Computer Science and Engineering (GPA: 3.84/4.00)

National Taiwan University (NTU), Taipei, Taiwan
M.S., Computer Science and Information Engineering (GPA: 4.00/4.00)

National Tsing Hua University (NTHU), Hsinchu, Taiwan
B.S., Computer Science (GPA: 3.81/4.00)

RESEARCH INTEREST

Social network analytics, Data Mining, Big data

PUBLICATIONS

2020 **Efficient Algorithms towards Network Intervention** H,-J. Hung, Wang-Chien Lee, De-Nian Yang, Chih-Ya Shen, Zhen Lei, Sy-Miin Chow The Web Conference (WWW) 2020, Taipei, Taiwan 2016 When Social Influence Meets Item Inference H,-J. Hung, H.-H. Shuai, D.-N. Yang, L.-H. Huang, W.-C. Lee, J. Pei, and M.-S. Chen KDD 2016, San Francisco, CA, USA 2016 Routing and Scheduling of Social Influence Diffusion in Online Social Networks H.-J. Hung, D.-N. Yang, and W.-C. Lee ICDCS 2016, Nara, Japan 2016 Social Influence-Aware Reverse Nearest Neighbor Search H.-J. Hung, D.-N. Yang, and W.-C. Lee ACM Transactions on Spatial Algorithms and Systems (TSAS), 2016 2014 Scalable and Bandwidth-Efficient Multicast for Software-Defined Networks L.-H. Huang, H.-J. Hung, C.-C. Lin, and D.-N. Yang GLOBECOM 2014, Austin, TX, USA Best Paper Candidate (Best 50 Papers) 2014 Social Influence-Aware Reverse Nearest Neighbor Search H.-J. Hung, D.-N. Yang, and W.-C. Lee DSAA 2014, Shanghai, China

2013 Maximizing Acceptance Probability for Active Friending in Online Social Networks D.-N. Yang, H.-J. Hung, W.-C. Lee, and W. Chen KDD 2013, Chicago, IL, USA Featured by MIT Technical Review, ACM TechNews, Phys.org, Popsci.com, Inquisitr.com 2013 Spatial Search for K Diverse-near Neighbors G. Ference, W.-C. Lee, H.-J. Hung, and D.-N. Yang CIKM 2013, San Francisco, CA, USA Relay Selection for Heterogeneous Cellular Networks with Renewable Green Energy 2013 **Sources** S.-Y. Lee, H.-J. Hung, C.-Y. Yang, T.-Y. Ho, and D.-N. Yang Under revision for IEEE Transactions on Mobile Computing (TMC) 2012 On Bundle Configuration for Viral Marketing in Social Networks D.-N. Yang, W.-C. Lee, N.-H. Chia, M. Ye, and H.-J. Hung CIKM 2012, Maui, HI, USA

AWARDS & HONORS

TAAI Rest Paper Award

2017

| 2017 | TAAI Best Paper Award |
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| 2016 | Student Travel Award (KDD) |
| 2016 | Student Travel Award (ICDCS) |
| 2014 | GLOBECOM Best Paper Candidate (Best 50 Papers) |
| 2010 | Excellent Teaching Assistant Award, NTU |
| | Course: System Programming (Instructor: Prof. Pu-Jen Cheng) |
| 2009 | Academic Achievement Award, NTHU |
| 2008 | Ninth Place in ACM International Collegiate Programming Contest |
| | (ACM-ICPC) Asia Region Kuala Lumpur Site |
| 2008 | Seventh Place in ACM-ICPC Asia Region Taipei Site |
| 2008 | Honorable Mention in National Collegiate Programming Contest |
| 2008 | Fifth Place in Tsinghua-HKUST Programming Contest |
| 2008 | Scholarship for Excellent EECS Students (Junior), NTHU |
| 2008 | Travel Award from ITCSC Winter School, Chinese University of Hong Kong |
| 2007 | Fifth Place in ACM-ICPC Asia Region Singapore Site |
| 2007 | Runner Up in Cluster Challenges in ACM/IEEE Supercomputing (SC'07) |
| 2007 | Second Place in National Collegiate Programming Contest |
| 2007 | Third Place in Tsinghua-HKUST Programming Contest |
| 2006 | Honorable Mention in National Collegiate Programming Contest |
| 2006 | Honorable Mention in ACM-ICPC Asia Region Kaohsiung Site |
| 2005 | Scholarship for Excellent EECS Students (Freshman), NTHU |
| 2004 | Forth Place in National Problem Solving Contest |
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WORK EXPERIENCES

Sep 2017 – Now Research Assistant

Advisor: Prof. Wang-Chien Lee and Prof. Sy-Miin Chow

Dept. of Human Development and Family Studies (HDFS), PSU,

State College, USA

Jan 2016 - May 2017 Teaching Assistant

Course: Database Management Systems, Data Structures and Algorithms

Dept. of CSE, PSU, State College, USA

Aug 2014 – Dec 2015 Research Assistant

Advisor: Prof. Wang-Chien Lee and Prof. Zhen Lei

Dept. of CSE, PSU, State College, USA

Dec 2011 – Aug 2014 Research Assistant

Advisor: Dr. De-Nian Yang

Institute of Information Science (IIS) &

Research Center for Information Technology Innovation (CITI),

Academia Sinica, Taipei, Taiwan

Sep 2010 - Jan 2011 Teaching Assistant

Course: Web Retrieval and Mining Dept. of CSIE, NTU, Taipei, Taiwan

Jul 2010 - Aug 2010 Summer Intern

Trend Micro, Taipei, Taiwan

Feb 2010 - Jun 2010 Teaching Assistant

Course: System Programming

Dept. of CSIE, NTU, Taipei, Taiwan

Jul 2009 - Sep 2009 Research Assistant

Advisor: Prof. Eric Lo and Prof. Edward Hung

Working on Privacy Preservation of Publicly Released Association Rules Dept. of Computing, Hong Kong Polytechnic University, Hong Kong

Sep 2008 - Jun 2009 Teaching Assistant

Programming Contests Training Class (Advisor: Prof. Ming-Jer Tsai)

Dept. of CS, NTHU, Hsinchu, Taiwan

RESEARCH PROJECTS

Patents and Paper Matching Problem

Hui-Ju Hung, Wang-Chien Lee, and Zhen Lei

We aim to identify patents originated from published papers by considering various approaches, including text-similarity based method, sentence-copying based method, learning-based method, and heterogeneous information network based methods. Due to the scalability issues faced in data

processing in computing big data analytics, we are investigating distributed algorithms and platforms such as Spark.

Query Prediction by Currently-Browsed Web Pages and its Applications

<u>Hui-Ju Hung</u> (master thesis in Dept. of CSIE, NTU, July 2011, advisor: Prof. Pu-Jen Cheng) We examined the relation between some issued queries and the web pages browsed before issuing those queries, called the current-browsed web pages. As the relation does exist in some queries, the content of the current-browsed web pages may help to understand the query intent. We developed a predictor to examine whether the current-browsed web pages are related to the issued query.

COURSES

Web Retrieval and Mining, Social Network Analysis and Graph Mining, Data Mining, Data Systems Design, Natural Language Processing, Parallel Algorithm Design, Information Retrieval, Numerical Optimization Techniques

COMPUTER SKILLS

C/C++, Python, Java, Matlab, Shell script, R