

Hui-Ju Hung (洪慧儒)

E-mail: hzh131@psu.edu

Website: <http://hjhung.idv.tw/>

EDUCATION

Pennsylvania State University (PSU), State College, PA, USA	2014 - 2024
Ph.D, Computer Science and Engineering (GPA: 3.84/4.00)	
National Taiwan University (NTU), Taipei, Taiwan	2009 - 2011
M.S., Computer Science and Information Engineering (GPA: 4.00/4.00)	
National Tsing Hua University (NTHU), Hsinchu, Taiwan	2005 - 2009
B.S., Computer Science (GPA: 3.81/4.00)	

RESEARCH INTEREST

Social network analytics, graph optimization problems, data mining, big data, deep learning

PUBLICATIONS

- 2024 **Leveraging Transfer Learning for Enhancing Graph Optimization Problem Solving**
H.-J. Hung, W.-C. Lee, C.-Y. Shen, F. He, Z. Lei
To appear in Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD), Taipei, Taiwan
- 2024 **Learning to Solve Combinatorial Optimization Problems on Graphs with State-Aware Multi-Relation Aggregation**
H.-J. Hung, W.-C. Lee, T.-Y. Fu, C.-Y. Shen, Z. Lei
To appear in ACM/SIGAPP Symposium On Applied Computing (SAC), Avila, Spain
- 2020 **Efficient Algorithms towards Network Intervention**
H.-J. Hung, W.-C. Lee, D.-N. Yang, C.-Y. Shen, Z. Lei, S.-M. Chow
The Web Conference (WWW) 2020, Taipei, Taiwan
- 2018 **Relay Selection for Heterogeneous Cellular Networks with Renewable Green Energy Sources**
H.-J. Hung, T.-Y. Ho, S.-Y. Lee, C.-Y. Yang, and D.-N. Yang
IEEE Transactions on Mobile Computing (TMC)
- 2017 **Multi-source Learning for Sales Prediction**
K.-H Tsai, Y.-S Wang, H.-Y Kuo, J.-Y Tsai, C.-C Chang, H.-J Hung, H.-H Shuai
TAAI, Taipei, Taiwan
Best Paper Award

- 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, Popsoci.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
- 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

- 2024 **SIGAPP Student Travel Award**
- 2020 **Student Travel Award (WWW)**
- 2017 **Student Scholarship for ACM's Celebration of 50 Years of the Turing Award**
Sponsored by SIGKDD
- 2017 **TAAI Best Paper Award**
- 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

ACADEMIC SERVICES

PC Member:

Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD)

IEEE Global Communications Conference (Globecom)

Reviewer:

ACM Transactions on Intelligent Systems and Technology (TIST)

IEEE/ACM Transactions on Networking (TON)

COMPUTER SKILLS

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

POSSIBLE COURSES

Algorithms, data structure, database, data mining, information retrieval, web mining, programming