

# Hui-Ju Hung (洪慧儒)

E-mail: [hjhung@ncu.edu.tw](mailto:hjhung@ncu.edu.tw)

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

## EDUCATION

- |   |                    |
|---|--------------------|
| <b>Pennsylvania State University (PSU), State College, PA, USA</b>  | <b>2014 - 2024</b> |
| Ph.D, Computer Science and Engineering (GPA: 3.84/4.00)             |                    |
| <b>National Taiwan University (NTU), Taipei, Taiwan</b>             | <b>2009 - 2011</b> |
| M.S., Computer Science and Information Engineering (GPA: 4.00/4.00) |                    |
| <b>National Tsing Hua University (NTHU), Hsinchu, Taiwan</b>        | <b>2005 - 2009</b> |
| 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  
PAKDD 2024, 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, 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
- 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 **PAKDD Student Travel Award**
- 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)
- IEEE Transactions on Services Computing (TSC)
- IEEE Transactions on Parallel and Distributed Systems (TPDS)
- Data & Knowledge Engineering (DKE)

## **COMPUTER SKILLS**

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

## **POSSIBLE COURSES**

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