Hui-Ju Hung (洪慧儒)

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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　**Efficient Detection of k-Plex Structures in Large Graphs Through Constraint Learning**
　　H,-J. Hung, , C.-H. Lu, Y.-Y. Huang, M.-Y. Chang, Y.-C. Ho, C.-Y. Shen
　　IEEE Transactions on Computational Social Systems (TCSS)

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, <u>H.-J Hung</u>, H.-H Shuai

TAAI, Taipei, Taiwan

Best Paper Award

2016   **When Social Influence Meets Item Inference**

<u>H,-J. Hung</u>, 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**

<u>H.-J. Hung</u>, D.-N. Yang, and W.-C. Lee

ICDCS 2016, Nara, Japan

2016   **Social Influence-Aware Reverse Nearest Neighbor Search**

<u>H.-J. Hung</u>, 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, <u>H.-J. Hung</u>, 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**

<u>H.-J. Hung</u>, 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, <u>H.-J. Hung</u>, 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, <u>H.-J. Hung</u>, 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 <u>H.-J. Hung</u>

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