



COCOA 2017

The 11th Annual International Conference on
Combinatorial Optimization and Applications
Shanghai, China, December 16–18, 2017



SPONSORS



GPS
Research
Group



Springer

ORGANIZATIONS



Contents

1. Preface	1
2. COCOA 2017 Committee	2
3. Conference Chairs	3
4. Program Committee	7
5. External Reviewer List	9
6. Sponsors	10
7. Program at a Glance	11
8. Keynote Speeches	13
9. Program Details	16
10. Activities	22
11. About Shanghai	23
12. Transportation	27
13. Contact Information	28
14. Notes	29

1. Preface

THE 11th Annual International Conference on Combinatorial Optimization and Applications (COCOA 2017) was held during December 16-18, 2017, in Shanghai, P. R. China. COCOA 2017 provides a forum for researchers working in the area of theoretical computer science, combinatorics, and various related areas.

The technical program of the conference included 59 regular papers selected by the Program Committee from 145 full submissions received in response to the call for papers. Each submission was peer-reviewed by at least 3, and on the average 3.8, Program Committee members or external reviewers. The topics cover most aspects of theoretical computer science and combinatorics related to computing, including classic combinatorial optimization, geometric optimization, complexity and data structures, graph theory, etc. We also selected 19 short papers to demonstrate various applications in the related areas. Some of the papers will be selected for the publication in special issues of *Algorithmica*, *Theoretical Computer Science*, *Journal of Combinatorial Optimization*, and *Algorithms*, etc. It is expected that the journal version of the papers will appear in a more complete form.

We thank everyone who made this meeting possible: the authors for submitting papers, the Program Committee members, and external reviewers for volunteering their time to review conference papers. Our sponsors include the Advanced Network Laboratory (ANL) from Shanghai Jiao Tong University, the GPS Laboratory from Nanjing University, the Research Institute for Interdisciplinary Sciences (RIIS) from Shanghai University of Finance and Economics, and the Cardinal Operations (shanshu.ai) company, China. We would also like to extend special thanks to the chairs and conference organization committee for their work in making COCOA 2017 a successful event.

COCOA ORGANIZATION COMMITTEE

Shanghai, China

December 15th, 2017

2. COCOA 2017 Committee

Organization Committee

General Chairs:

Guanghai Chen (Nanjing University, China)
Minyi Guo (Shanghai Jiao Tong University, China)

Vice General Chair:

Zhipeng Cai (Georgia State University, USA)

TPC Co-Chairs:

Xiaofeng Gao (Shanghai Jiao Tong University, China)
Hongwei Du (Harbin Institute of Technology, Shenzhen, China)

Publicity Co-Chairs:

Dongdong Ge (Shanghai University of Finance and Economics, China)
Chenchen Wu (Tianjin University of Technology, China)

Publication Chair:

Meng Han (Kennesaw State University, USA)

Financial Chair:

Fay Zhong (California State University, Easy Bay, USA)

Local Organization Chair:

Sherman Hung (Shanghai Jiao Tong University, China)

Web Chair:

Shilei Tian (Shanghai Jiao Tong University, China)

Staff :

Chao Wang, Chenlin Liu, Gehua Qin, Guanhao Wu, Hao Zhou,
Jiahao Fan, Jiahui Wang, Junwei Lu, Lei Jiang, Mingding Liao,
Shuang Wu, Tianxiang Gao, Xinjian Luo, Xinyu Wu, Yin Lin,
Yuanning Gao, Yuchen Xia, etc. (Shanghai Jiao Tong University, China)

3. Conference Chairs

Guihai Chen (Nanjing University, China), General Chair

Guihai Chen is a distinguished professor of Nanjing University, China. He earned B.S. degree in computer software from Nanjing University, China, in 1984, M.E. degree in computer applications from Southeast University, China, in 1987, and Ph.D. degree in computer science from the University of Hong Kong in 1997. He had been invited as a visiting professor by Kyushu Institute of Technology in Japan, University of Queensland in Australia and Wayne State University in USA. He has a wide range of research interests with focus on parallel computing, wireless networks, data centers, peer-to-peer computing, high-performance computer architecture and data engineering. He has published more than 400 peer-reviewed papers, and more than 200 of them are in well-archived international journals such as IEEE TPDS, IEEE TC, IEEE TKDE, ACM/IEEE TON, and ACM TOSN, and also in well-known conference proceedings such as HPCA, MOBIHOC, INFOCOM, ICNP, ICDCS, CoNext, and AAAI. He has won several best paper awards including ICNP 2015 best paper award and DASFAA 2017 best paper award. His papers have been cited for more than 10000 times according to Google Scholar. He has achieved many honors and awards, including Young Teacher Award by Ministry of Education in 2002, Zhongchuang Software Talent Award in 2004, National Science Fund for Outstanding Young Scholars in 2008, Special Stipend by China Government in 2010, and First Prize for Natural Science Award by Ministry of Education in 2015.



Minyi Guo (Shanghai Jiao Tong University, China), General Chair

Minyi Guo received the BSc and ME degrees in computer science from Nanjing University, China, and the PhD degree in computer science from the University of Tsukuba, Japan. He is currently chair professor and head of the Department of Computer Science and Engineering, Shanghai Jiao Tong University (SJTU), China. Before joined SJTU, Dr. Guo had been a professor and department chair of school of computer science and engineering, University of Aizu, Japan. Dr. Guo received the national science fund for distinguished young scholars from NSFC in 2007, was selected in the Recruitment Program of Global Experts in China in 2010, was appointed as the Chief Scientist of the 973 Program in 2014, and was elevated to fellow of IEEE in 2017. His present research interests include big data, parallel/distributed computing, compiler optimizations, embedded systems, pervasive computing, and bioinformatics. He has more than 300 publications in major journals and international conferences in these areas, and has published 4 books written in English. He is on the editorial board of IEEE Transactions on Parallel and Distributed Systems and IEEE Transactions on Cloud Computing. He received 6 best paper awards from international conferences.





Zhipeng Cai (Georgia State University, USA), Vice General Chair

Zhipeng Cai received his PhD and M.S. degrees in the Department of Computing Science at University of Alberta, and B.S. degree from Beijing Institute of Technology, China. Dr. Cai is currently an Assistant Professor in the Department of Computer Science at Georgia State University. Dr. Cai's research areas focus on Networking, Privacy and Big data. He has published more than 50 journals papers, including around 30 IEEE/ACM Transactions papers, such as IEEE Transactions on Knowledge and Data Engineering, IEEE Transactions on Dependable and Secure Computing, IEEE/ACM Transactions on Networking, IEEE Transactions on Mobile Computing, etc. Dr. Cai is the recipient of an NSF CAREER Award. He is an editor for IEEE Transactions on Knowledge and Data Engineering (TKDE), IEEE Transactions on Vehicular Technology (TVT), IEEE Access, and the guest editor for Algorithmica, Theoretical Computer Science, Journal of Combinatorial Optimization, and IEEE/ACM Transactions on Computational Biology and Bioinformatics. He is a senior member of the IEEE.



Xiaofeng Gao (Shanghai Jiao Tong University, China), TPC Co-Chair

Xiaofeng Gao is currently an Associate Professor in the Department of Computer Science and Engineering at Shanghai Jiao Tong University, China. She received the B.S. degree in information and computational science from Nankai University, China, in 2004; the M.S. degree in operations research and control theory from Tsinghua University, China, in 2006; and the Ph.D. degree in computer science from The University of Texas at Dallas, USA, in 2010. Her research interests include wireless communications, data engineering, and combinatorial optimizations. She has published more than 120 peer-reviewed papers in the related area, including well-archived journals such as Theoretical Computer Science, Journal of Combinatorial Optimization, Journal of Global Optimization, IEEE/ACM Transactions on Networking, IEEE Transactions on Computers, IEEE Transactions on Parallel and Distributed Systems, IEEE Transactions on Mobile Computing, and IEEE Transactions on Knowledge and Data Engineering, and also in well-known conference proceedings such as SIGKDD, INFOCOM, ICDCS. She has served on the editorial board of Discrete Mathematics, Algorithms and Applications, and as the Technical Program Chairs, Program Committees and peer reviewers for a number of international conferences and journals. Her homepage is <http://cs.sjtu.edu.cn/~gao-xf/>



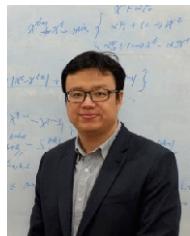
Hongwei Du (Harbin Institute of Technology, Shenzhen, China), TPC Co-Chair

Hongwei Du received the PhD degree (2008) from the City University of Hong Kong. During 2008 to 2009, he was a research fellow in City University of Hong Kong. After that, he went to the department of computer science of Illinois Institute of Technology(IIT), USA during the years of 2009 and 2010 as a senior research associate. In 2010, he left IIT and went to University of Prince Edward Island, Canada as a visiting scholar. Currently, he is the associate professor in the department of computer science and technology of Harbin Institute of Technology Shenzhen Graduate School. Dr. Du had been published nearly 100 papers on the top conferences and journals. He is a senior member of IEEE and CCF.



Dongdong Ge (Shanghai University of Finance and Economics, China), Publicity Co-Chair

Dongdong Ge is a professor and the dean of Research Institute for Interdisciplinary Sciences in Shanghai University of Finance and Economics. He received his PhD from Stanford MS&E in 2009 under the guidance of Professor Yinyu Ye. His main research interests lie in large scale optimization theory and algorithms, and operations management. He published papers in OR and CS journals and conferences such as Mathematics of Operation Research, Mathematical Programming, FOCS, SODA, EC, and ICML, etc. He has been widely consulting for companies such as Boeing, Google, IBM, JD, SFExpress, Didi, and Netease, etc.



Chenchen Wu (Tianjin University of Technology, China), Publicity Co-Chair

Chenchen Wu is currently working in the College of Science, Tianjin University of Technology, China. She received the M.S. degree in Operations Research and Cybernetics from Beijing University of Technology, China and the Ph. D. degree in Computational Mathematics from Nankai University, China. Her current research interests include Algorithm Design, Combinatorial Optimization, and Robust Optimization, etc. She was also a visiting scholar in the Department of Computing, the Hongkong Polytechnic University and the Faculty of Business, and University of New Brunswick, Canada. She has published more than 20 papers in these areas, in journals including Theroetical Computer Science, Journal of Global Optimization, Journal of Combinatorial Optimization, etc. She is also a reviewer of Theroetical Computer Science, Asia Pacific Journal of Operations Research, etc. She was Publicity Chair of the 21st International Computing and Combinatorics Conference (COCOON 2015), and organized the 2017 Workshop on Nonlinear Combinatorial Optimization.



Fay Zhong (California State University, Easy Bay, USA), Financial Co-Chair

Dr. Jiaofei Zhong received her Ph.D. in 2012 and M.S. degree in 2010, both in Computer Science from the University of Texas at Dallas, USA. She was an Assistant Professor of Computer Science at University of Central Missouri, USA during 2012-2014. After that she went to the California State University East Bay, USA in 2014 as an Assistant Professor of Computer Science until today, Dr. Zhong has published over 30 research articles in peer-reviewed journals and conference proceedings on wireless data broadcasting, data clustering analysis, social networks, bioinformatics, etc. Her research interests are in the areas of data engineering and information management, especially in wireless communication environment, including data broadcasting, vehicle ad hoc networks, and sensor database. She has served as Technical Program Committee (TPC) chair and TPC member, publicity chair, and financial chair of more than twelve international conferences, and as a peer reviewer for 35 journals and conferences. She is actively engaged in STEM interdisciplinary projects and curriculum development.



Meng Han (Kennesaw State University, USA), Publicity Co-Chair

Dr. Meng Han currently is an assistant professor of the Department of Information Technology in the College of Computing and Software Engineering at Kennesaw State University, USA. He got his Ph.D. in Computer Science from Georgia State University, USA. He is currently an ACM member, an IEEE member, and an IEEE COMSOC member. His research interests include big social data mining, cyber data security & privacy, and data-driven intelligence. He has unique experiences of the analysis towards big social data, cyber data and business data with academic achievements of 1 book chapter, 18 first-authored and 14 co-authored publications in referenced international journals and conferences, among which one is awarded the best paper and another two are awarded best paper runner-up.





4. Program Committee

Bin Fu (University of Texas-Rio Grande Valley, United States)

Bin Ma (University of Waterloo, Canada)

Boting Yang (University of Regina, Canada)

Chihaio Zhang (The Chinese University of Hong Kong, Hong Kong)

Donghyun Kim (Kennesaw State University, United States)

Erfang Shan (Shanghai University, China)

Gerhard Woeginger (Eindhoven University of Technology, Netherland)

Gruia Calinescu (Illinois Institute of Technology, United States)

Guohui Lin (University of Alberta, Canada)

Haipeng Dai (Nanjing University, China)

Hejiao Huang (Harbin Institute of Technology, Shenzhen, China)

Hsu-Chun Yen (National Taiwan University, Taiwan)

Huacheng Yu (Stanford University, USA)

Hubert Chan (The University of Hong Kong, Hong Kong)

Jie Hu (Wuhan University, China)

Jing Chen (Stony Brook University, United States)
Juraj Hromkovic (ETH Zurich, Switzerland)
Kazuo Iwama (Kyoto University, Japan)
Kun-Mao Chao (National Taiwan University, Taiwan)
Minming Li (City University of Hong Kong, Hong Kong)
Mitsunori Ogiara (University of Miami, United States)
Naoki Katoh (Kwansei Gakuin University, Japan)
Neng Fan (University of Arizona, United States)
Ovidiu Daescu (University of Texas at Dallas, United States)
Pinar Heggernes (University of Bergen, Norway)
Qianping Gu (Simon Fraser University, Canada)
Rajesh Chitnis (Weizmann Institute of Science, Israel)
Sheung-Hung Poon (Brunei Technological University, Brunei Darussalam)
Stanley Fung (University of Leicester, United Kingdom)
Sun-Yuan Hsieh (National Cheng Kung University, Taiwan)
Thang Dinh (Virginia Commonwealth University, United States)
Thomas Erlebach (University of Leicester, United Kingdom)
Vincent Chau (Hong Kong Baptist University, Hong Kong)
Wolfgang Bein (University of Nevada, United States)
Xianmin Liu (Harbin Institute of Technology, China)
Xianyue Li (Lan Zhou University, China)
Xiaohui Bei (Nanyang Technological University, Singapore)
Xiaowei Wu (The University of Hong Kong, Hong Kong)
Xiaowen Liu (Indiana University-Purdue University-Indianapolis, United States)
Xujin Chen (Academy of Mathematics and Systems Science, China)
Yuqing Zhu (California State University, Los Angeles, United States)
Zhao Zhang (Zhejiang Normal University, China)
Zhenhua Duan (Xidian University, China)

5. External Reviewer List

Akira Suzuki	Hui Wang	Yeojin Kim
An Zhang	Hung-Lung Wang	Yi-Jun Chang
Andreas Jakoby	Ido Polak	Yihan Zhang
Atsushi Takizawa	Ignaz Rutter	Yingkai Li
Benjamin Raichel	James Andro-Vasko	Yinling Wang
Bin Yu	Jesper Jansson	Yong Zhang
Bingkai Lin	Junichi Teruyama	Yongtang Shi
Bo Jiang	Junjie Ye	Yoshiaki Oda
Bo Li	Kai Yang	Yu-Fang Chen
Bogdan Armaselu	Kim Thang Nguyen	Yue Lu
Carola Doerr	Lawrence Larmore	Yuki Kobayashi
Chao Liao	Li-Hsuan Chen	Yuya Higashikawa
Chenglin Fan	Ling-Ju Hung	Zhilang Cao
Chenxia Zhao	Longkun Guo	Zhihao Gavin Tang
Chi-Yeh Chen	Man Kwun Chiu	Zhiyi Tan
Chia-Chen Wei	Marian Sorin Nistor	
Chia-Wei Lee	Meng Wang	
Chun-Cheng Lin	Mingyu Xiao	
Chunming Xu	Minh-Son Dao	
Daiji Fukagawa	Nai-Wen Chang	
Dara Nyknahad	Naomi Nishimura	
David Mount	Noriyoshi Sukegawa	
David Wehner	Peng Zhang	
Dennis Komm	Prudence W.H. Wong	
Derek Williams	Rolf H. Möhring	
Deshi Ye	Sheng-Lung Peng	
Dimitrios Letsios	Shin-Ichi Nakano	
Doina Bein	Simai He	
Elisabet Burjons Pujol	Stefan Dobrev	
Euisseong Ko	Tao Xiao	
Fabian Frei	Tian-Li Yu	
Greg Aloupis	Toshiki Saitoh	
Hans-Joachim Boeckenhauer	Uday Bhaskar Boyanapalli	
Hemant Malik	Vladimir Deineko	
Ho-Lin Chen	Wensheng Wang	
Hongjin He	Xin Han	

6. Sponsors

Organization:



Advanced Network Laboratory (ANL) at Shanghai Jiao Tong University, China was established in the spring of 2011 with 5 active faculty advisors, currently having 24 graduated doctorates or masters and more than 40 postgraduates. The mission of the lab is to conduct original research in various communication networks with an emphasis on research contributions and impact. Along this goal, we have identified a few exciting research topics from theoretical hardcore problems to real-word applications including distributed network and data processing, wireless network structure and optimization, wireless networks and mobile computing, the Internet of Things, sensor networks, game theory, algorithms and applications. Current research projects have been funded by many sponsors including the National Science Foundation (NSF) of China, the Ministry of Education in China, the Ministry of Science Technology in China, Shanghai Municipal Government, etc. During the six years since the establishment, we have published hundreds of papers in well-known international conferences and journals and have won the best paper awards from many influential conferences such as ICNP, DASFAA and ICPADS. Because of our excellent contributions, we have won the first prize of natural science of Ministry of Education.



The **Grid P2P Sensor (GPS)** is a research group belonging to State Key Laboratory for Novel Software Technology and the Department of Computer Science and Technology at Nanjing University, China led by distinguished Prof. Guihai Chen. Our research interests are centered around distributed computing, Internet of things, mobile computing, data mining and data centers, with the larger goal of making current and future networks easier to design, understand and operate. We are currently active in multiple areas including wireless charging, smartphone, routing and network update. Most of our projects are inherently tend to involve recent advances in approximation algorithm, combinatorial optimization, convex optimization and probability analysis. We published more than 300 papers in peer-reviewed journals such as TON, TPDS, JSAC, TOSC, TMC, TKDE, TOSN, etc., and well-known conference proceedings such as SIGMETRICS, VLDB, MOBIHOC, INFOCOM, ICPP, ICDCS, ICNP, IPSN, AAAI, HPCA, etc. We received the best paper award from MOBICOM 2009, ICCS2014, AAMAS 2014, ICNP 2015, ICPADS 2016, CloudComp 2016, DASFAA 2017, and INFOCOM 2017.

Cruise:



Aiming to facilitate interdisciplinary communication and development as well as foster top interdisciplinary talents, the **Research Institute for Interdisciplinary Sciences (RIIS)** is born. RIIS has an outstanding faculty team, with more than ten Ph.D.'s from renowned Chinese and international universities, such as Stanford University. RIIS is an umbrella institute hosting five research organizations, namely Research Center for Management Science and Information Analytics, The LEAVES International Parallel Computing Optimization Lab (LEAVES), Research Center for FinTech, Research Center for Artificial Intelligence, and Research Center for Sharing Economy. In addition, RIIS plans to launch a MD-PhD joint program with University of Minnesota. Together with School of Information Management and Engineering, at Shanghai University of Finance and Economics, China. RIIS will start a pilot project, and will be devoted to top-talent cultivation.



Cardinal Operations is a unique big-data decision company in China. Founded by five Stanford professor and PhDs, and with a team of world-class decision making experts and data scientists, Cardinal Operations aims at using big data to provide solutions for firms under complex decision scenarios. Different from many other "big data" companies, we try to close the loop in the decision chain in the area of big data — from data collection, pattern analysis, all the way to the final decision. Particularly, with the decision making experts and the state-of-the-art models and algorithms, we fill the gap of translating the results from data analysis to executable decision, making the most use of data to create value for companies.

Proceeding & Best Paper Award:



Springer is a leading global scientific, technical and medical portfolio, providing researchers in academia, scientific institutions and corporate R&D departments with quality content through innovative information, products and services. Springer has one of the strongest STM and HSS eBook collections and archives, as well as a comprehensive range of hybrid and open access journals. Springer is part of Springer Nature, a global publisher that serves and supports the research community. As part of Springer Nature, Springer sits alongside other trusted brands like Nature Research, BioMed Central and Palgrave Macmillan.

7. Program at a Glance

COCOA 2017 Registration Day (December 15th, 2017)

14:00 - 18:00 Registration (Lobby, 1F)

COCOA 2017 Conference Day 1 (December 16th, 2017)

8:30 - 18:00	Registration (Lobby, 1F)	
8:45 - 09:00	Opening Ceremony Prof. Minyi Guo, Prof. Guihai Chen (GRAND BALLROOM B, 九州厅 B, 4F)	
9:00 - 09:30	Photo	
9:30 - 10:30	Keynote Speech: Narrowing (Already) Small Complexity Gaps Speaker: Dr. Kazuo Iwama (Kyoto University, Japan) Chair: Xiwen Lu (GRAND BALLROOM B, 九州厅 B, 4F)	
10:30 - 10:50	Coffee Break	
10:50 - 12:30	Session 1: Game Theory Chair: Thomas Erlebach (GRAND BALLROOM B, 九州厅 B, 4F)	
12:30 - 13:40	Lunch	
13:40 - 15:20	Session 2: Graph Theory Chair: Xiao Zhou (PLUM BLOSSOM, 梅花厅, 4F)	Session 3: Combinatorial Optimization Chair: Guochuan Zhang (PEONY, 牡丹厅, 4F)
15:20 - 15:50	Coffee Break	
15:50 - 17:50	Session 4: Approximation Algorithm Chair: Michael Khachay (PLUM BLOSSOM, 梅花厅, 4F)	Session 5: Combinatorial Optimization Chair: Viet Hung Nguyen (PEONY, 牡丹厅, 4F)
18:20	Banquet (CTC RESTAURANT, 3F)	

COCOA 2017 Conference Day 2 (December 17th, 2017)

9:00 - 10:00	Keynote Speech: Maximization of Multi-Factor Influence Speaker: Dr. Ding-Zhu Du (University of Texas at Dallas, USA) Chair: Dachuan Xu (GRAND BALLROOM B, 九州厅 B, 4F)	
10:00 - 10:20	Coffee Break	
10:20 - 11:20	Keynote Speech: A Non-Asymptotic Approach to Analyze Kidney Exchange Graphs Speaker: Dr. Simai He (Shanghai University of Finance and Economics, China) Chair: Xianmin Liu (GRAND BALLROOM B, 九州厅 B, 4F)	
11:20 - 12:30	Lunch	
12:30 - 14:10	Session 6: Combinatorial Optimization Chair: Alireza Zarei (PLUM BLOSSOM, 梅花厅, 4F)	Session 7: Application Chair: Ugo Vaccaro (PEONY, 牡丹厅, 4F)
14:10 - 14:30	Coffee Break	
14:30 - 16:30	Session 8: Network Chair: Neeraj Mittal (PLUM BLOSSOM, 梅花厅, 4F)	Session 9: Graph Theory Chair: Qianping Gu (PEONY, 牡丹厅, 4F)
17:00 -	Cruise Buffet (Huangpu River) Sponsor: Cardinal Operations	

COCOA 2017 Conference Day 3 (December 18th, 2017)

09:00 - 10:40	Session 10: Combinatorial Optimization Chair: Yannis Manoussakis (PLUM BLOSSOM, 梅花厅, 4F)	Session 11: Application Chair: Francis Y.L. Chin (PEONY, 牡丹厅, 4F)
10:40 - 11:00	Coffee Break	
11:00 - 12:20	Session 12: Demo and Application (Fast Track) Chair: Xiaofei Liu (PLUM BLOSSOM, 梅花厅, 4F)	Session 13: Demo and Application (Fast Track) Chair: Boting Yang (PEONY, 牡丹厅, 4F)
12:20 - 14:00	Lunch	
14:00 - 18:00	Workshop: Network Computing and its Application Chair: Yuan Luo (PEONY, 牡丹厅, 4F)	

8. Keynote Speeches

Keynote 1: Narrowing (Already) Small Complexity Gaps

Speaker: Dr. Kazuo Iwama (Kyoto University, Japan)

Chair: Xiwen Lu

Space: GRAND BALLROOM B, 九州厅 B, 4F

Abstract: Suppose that some problem has an algorithm which runs in time $O(n)$. This algorithm is optimal in the usual sense and there is little room for further improvements. One may be interested in the constant factor that is hidden by the big-O notation, but that would cause nasty issues about machine models. On the other hand, there are several other complexity measures that are more accurate and cleaner than the number of computation steps. One of them is the number of comparisons for evaluating sorting algorithms. In many textbooks, it is just written that fast algorithms need $O(n \log n)$ comparisons (\log means the logarithm of base 2 here) which is optimal. It turns out, however, that its information theoretic lower bound is $\log(n!)$, which is approximately equal to $n \log n - 1.4426n + O(\log n)$. For instance, it is easy to prove that the simple binary insertion sort needs at most $n \log n$ comparisons, but it is much harder to specifically bound the linear term or to bound its constant factor. The current best upper bound for that constant factor is -1.32 due to Ford and Johnson that is published in 1959. Another example of such measure is the number of oracle calls for reconstruction of strings which is a model of sequence by hybridization. Again the current upper bound is $n + 2 \log n$ and it was a long-standing open question whether the $\log n$ term can be removed. This talk is about our two recent results on improved upper bounds for those complexity measures. Such a small improvement may be useless in practice, but it needs a lot of new algorithmic techniques that may be useful in other occasions. Even more importantly, those are nice examples to demonstrate the power of randomization and/or the advantage of the average-case complexity over the worst-case complexity.



Biography: Professor Kazuo Iwama received B.E., M.E. and Ph.D. degrees from Department of Electrical Engineering, Kyoto University, Japan, in 1973, 1975 and 1980, respectively. He is the project professor of Kyoto University, and his research interests are mainly algorithms and complexity theory. He is the member of Academia Europae, the editor-in-chief of European Association for Theoretical Computer Science (EATCS), and the founder and president of Asian Association for Algorithms and Computation (AAAC). He was also the organizing committee chair of ICALP/LICS 2015 and the 23rd ACM-SIAM Symposium on Discrete Algorithms (SODA 2012). Prof. Iwama had published more than 200 papers in distinguished conferences and journals. He was also the Honorary Doctorate of University of Latvia.



Keynote 2: Maximization of Multi-Factor Influence

Speaker: Dr. Ding-Zhu Du (University of Texas at Dallas, USA)

Chair: Dachuan Xu

Space: GRAND BALLROOM B, 九州厅 B, 4F

Abstract: In viral marketing, a customer gets influenced usually by not only a single factor, but also more than one factors, or multiple factors. For example, both quality and price of a product are very

important for a customer to make his/her decision on buying or not. In this talk, we consider a model with the following properties: (a) A product is described by k ($k \geq 2$) factors and a customer buys the product if and only if he gets influenced on every factor. (b) All factors are independent so that influence diffusion of each factor follows an independent cascade model in the networks and different factors may follow different independent cascade models, that is, accepting probabilities for different factors on each edge maybe different. Of course, the maximization of influence spread is NP-hard. We show that the influence spread in this model is still a submodular function and hence its maximization has an $(1 - 1/e)$ -approximation.

Biography: Professor Ding-Zhu Du received the Ph.D. degree from the University of California, Santa Barbara, in 1985. He was a post doctor of the institute of mathematical science of University of California, Berkeley, USA, during 1985 to 1986. After that he went to the department of mathematics of Massachusetts Institute of Technology (MIT), USA, at 1986 as a visiting scholar. In 1987 he left MIT and took the position as a professor at institute of mathematics of Chinese Academy of Sciences, China. He became an associate professor and then the professor at the department of computer science of the University of Minnesota, Twin Cities, USA, from 1991 to 1995. Currently he is the professor of the department of computer science of University of Texas at Dallas, USA, and the project supervisor of the computer theoretics of the NSF committee. Dr. Du had published more than 200 papers on the top conferences and journals of computer science, and more than 10 authored books. He is the Editor-in-Chief of the Journal of Combinatorial Optimization, and editorial board member of more than 15 journals. He received CSTS award from INFORMS in 1998, the 2nd class prize of the Chinese NSF in 1993 and the 1st class prize of natural science of Chinese Academy of Sciences.

Keynote 3: A Non-Asymptotic Approach to Analyze Kidney Exchange Graphs

Speaker: Dr. Simai He

(Shanghai University of Finance and Economics, China)

Chair: Xianmin Liu

Space: GRAND BALLROOM B, 九州厅 B, 4F



Abstract: We propose a novel methodology to study kidney exchange. Taking the random graph model of kidney exchange introduced in Ashlagi, Garmarnik, Rees and Roth's "The need for (long) chains in kidney exchange" (2012), we propose a non-asymptotic approach to quantify the effectiveness of transplant chains in reducing the number of unmatched highly sensitized patients. Our approach is based on a two phase random walk procedure where random walks are used to allocate chains, followed by allocation via matching in cycles. The benefit of random walks is that they preserve the probabilistic structure of residual graphs, greatly facilitating analysis. The approach allows us to analytically show the benefit of chains, as compared to transplantation in two-way cycles only, in non-asymptotic (medium-sized) graphs. We also derive useful analytical bounds that illustrate the performance of our proposed allocation procedure and more general kidney allocation procedures. Our results complement previous findings on the benefits of chains that includes analytical results in large (limit) graphs and empirical results based on data from fielded kidney exchanges.

Biography: Simai He is a professor in Department of Management Science, Shanghai University of Finance and Economics, China. His research focuses on optimization, game theory and supply chain management. He published papers in OR and CS journals and conferences such as Operations Research, Mathematics of Operations Research, Mathematical Programming, SIAM Journal on Optimization, FOCS, SODA and EC. He won the Gold Medal in the 33rd International Mathematical Olympiad. He also received the Award for Young Scientists from the Operations Research Society of China in 2014. He has been widely consulting for companies such as JD, Didi and NetEase, etc, and is the Chief Scientist of Cardinal Operations.

9. Program Details

International Conference on Combinatorial Optimization and Applications (Day 1)

Opening Ceremony:

Prof. Minyi Guo, Prof. Guihai Chen

Keynote Speech: 9:30 - 10:30

Narrowing (Already) Small Complexity Gaps

Dr. Kazuo Iwama

Session 1 Game Theory

(GRAND BALLROOM B, 九州厅 B, 4F)

Chair: Thomas Erlebach (100 Minutes 5 Papers)

1. An Improved Mechanism for Selfish Bin Packing

Xin Chen, Qingqin Nong and Qizhi Fang

2. Cost-Sharing Mechanisms for Selfish Bin Packing

Chenhuo Zhang and Guochuan Zhang

3. The Eigen-Distribution of Weighted Game Trees

Shohei Okisaka, Weiguang Peng, Wenjuan Li and Kazuyuki Tanaka

4. The Price of Anarchy in Two-Stage Scheduling Games

Deshi Ye, Lin Chen and Guochuan Zhang

5. Selfish Jobs with Favorite Machines: Price of Anarchy vs Strong Price of Anarchy

Cong Chen, Paolo Penna and Yinfeng Xu

Session 2 Graph Theory

(PLUM BLOSSOM, 梅花厅, 4F)

Chair: Xiao Zhou (100 Minutes 5 Papers)

1. Complexity and Online Algorithms for Minimum Skyline Coloring of Intervals

Thomas Erlebach, Fu-Hong Liu, Hsiang-Hsuan Liu, Mordechai Shalom, Prudence W.H. Wong and Shmuel Zaks

2. Listing Acyclic Subgraphs and Subgraphs of Bounded Girth in Directed Graphs

Alessio Conte, Kurita Kazuhiro, Kunihiro Wasa and Takeaki Uno

3. The Cop Number of the One-Cop-Moves Game on Planar Graphs

Ziyuan Gao and Boting Yang

4. The Spectral Radius and Domination Number of Uniform Hypergraphs

Liying Kang, Wei Zhang and Erfang Shan

5. The 2-Median Problem on Cactus Graphs with Positive and Negative Weights

Bai Chunsong and Kang Liying



Session 3 Combinatorial Optimization (PEONY, 牡丹厅, 4F)

Chair: Guochuan Zhang (100 Minutes 5 Papers)

1. Generalized pyramidal tours for the Generalized Traveling Salesman Problem
Michael Khachay and Katherine Neznakhina
2. Improved Branching Algorithm for $(n,3)$ -MaxSAT Based on Refined Observations
Wenjun Li, Jianxin Wang, Chao Xu and Yongjie Yang
3. New Insights for Power Edge Set Problem
Benoit Darties, Annie Chateau, Rodolphe Giroudeau and Mathias Weller
4. On the Complexity of Detecting k-Length Negative Cost Cycles
Longkun Guo and Peng Li
5. An Efficient Primal-Dual Algorithm for Fair Combinatorial Optimization Problems
Viet Hung Nguyen and Paul Weng

Session 4 Approximation Algorithm (PLUM BLOSSOM, 梅花厅, 4F)

Chair: Michael Khachay (120 Minutes 6 Papers)

1. Approximation Algorithms for Maximum Coverage with Group Budget Constraints
Longkun Guo, Min Li and Dachuan Xu
2. A Spectral Partitioning Algorithm for Maximum Directed Cut Problem
Zhenning Zhang, Donglei Du, Chenchen Wu, Dachuan Xu and Dongmei Zhang
3. Approximating k-Forest with Resource Augmentation: A Primal-Dual Approach
Eric Angel, Kim Thang Nguyen and Shikha Singh
4. Better Approximation Ratios for the Single-Vehicle Scheduling Problems on Tree/Cycle Networks
Yuanxiao Wu and Xiwen Lu
5. Parameterized Approximation Algorithms for Some Location Problems in Graphs
Arne Leitert and Feodor Dragan
6. Efficient Algorithms for Ridesharing of Personal Vehicles
Qianping Gu, Leo Jiajian Liang and Guochuan Zhang

Session 5 Combinatorial Optimization (PEONY, 牡丹厅, 4F)

Chair: Viet Hung Nguyen (120 Minutes 6 Papers)

1. A New Graph Parameter to Measure Linearity
Pierre Charbit, Michel Habib, Lalla Mouatadid and Reza Naserasr
2. Faster and Enhanced Inclusion-Minimal Cograph Completion
Christophe Crespelle, Daniel Lokshinov, Thi Ha Duong Phan and Eric Thierry
3. Graph Editing to a Given Neighbourhood Degree List is Fixed-Parameter Tractable
Naomi Nishimura and Vijay Subramanya

COCOA 2017



4. Lexico-Minimum Replica Placement in Multitrees
K. Alex Mills, R. Chandrasekaran and Neeraj Mittal
5. Structure of Towers and a New Proof of the Tight Cut Lemma
Nanao Kita
6. Price Fluctuation in Online Leasing
Christine Markarian, Bjorn Feldkord and Friedhelm Meyer Auf der Heide

International Conference on Combinatorial Optimization and Applications (Day 2)

Keynote Speech: 9:00 - 10:00

Maximization of Multi-Factor Influence
Dr. Ding-Zhu Du

Keynote Speech: 10:20 - 11:20

A Non-Asymptotic Approach to Analyze Kidney Exchange Graphs
Dr. Simai He

Session 6 Combinatorial Optimization (PLUM BLOSSOM, 梅花厅, 4F)

Chair: Alireza Zarei (100 Minutes 5 Papers)

1. Algorithms for the Ring Star Problem
Xujin Chen, Xiaodong Hu, Zhongzheng Tang, Chenhao Wang and Ying Zhang
2. Floorplans with Columns
Katsuhisa Yamanaka, Md. Saidur Rahman and Shin-Ichi Nakano
3. On the Profit-Maximizing for Transaction Platforms in Crowd Sensing
Xi Luo, Jiali Lu, Guangshuo Chen, Linghe Kong and Minyou Wu
4. An Efficient Algorithm for Judicious Partition of Hypergraphs
Tunzi Tan, Jihong Gui, Sainan Wang, Suixiang Gao and Wenguo Yang
5. A Refined Characteristic of Minimum Contingency Set for Conjunctive Query
Dongjing Miao and Zhipeng Cai

Session 7 Application (PEONY, 牡丹厅, 4F)

Chair: Ugo Vaccaro (100 Minutes 5 Papers)

1. Cloning Automata: Simulation and Analysis of Computer Bacteria
Chu Chen, Zhenhua Duan and Cong Tian
2. Modelling and Solving Anti-aircraft Mission Planning for Defensive Missile Battalions
Trang Nguyen, Trung Bui, Bang Nguyen and Su Le
3. Perspectives of Big Data Analysis in Urban Railway Planning: Shenzhen Metro Case Study
Keke Peng, Caiwei Yuan and Wen Xu
4. Repair Position Selection for Inconsistent Data
Xianmin Liu, Yingshu Li and Jianzhong Li
5. Unbounded One-Way Trading on Distributions with Monotone Hazard Rate
Francis Chin, Francis Lau, Hing-Fung Ting, Haisheng Tan and Yong Zhang



Session 8 Network (PLUM BLOSSOM, 梅花厅, 4F)

Chair: Neeraj Mittal (120 Minutes 6 Papers)

1. A Framework for Overall Storage Overflow Problem to Maximize the Lifetime in WSNs
Guoliang Song, Chen Zhang, Chuang Liu and Yuna Chai
2. A Parallel Construction of Vertex-disjoint Spanning Trees with Optimal Heights in Star Networks
Shih-Shun Kao, Jou-Ming Chang, Kung-Jui Pai, Jinn-Shyong Yang, Shyue-Ming Tang and Ro-Yu Wu
3. Filtering Undesirable Flows in Networks
Gleb Polevoy, Stojan Trajanovski, Paola Grossi and Cees de Laat
4. Protein Mover's Distance: A Geometric Approach for Solving Global Alignment of PPI Networks
Manni Liu and Hu Ding
5. On Interdependent Failure Resilient Multi-path Routing in Smart Grid Communication Network
Zishen Yang, Donghyun Kim and Wei Wang
6. Toward Energy-Efficient and Robust Clustering Algorithm on Mobile Ad Hoc Sensor Networks
Huamei Qi, Tailong Xiao, Anfeng Liu and Su Jiang

Session 9 Graph Theory (PEONY, 牡丹厅, 4F)

Chair: Qianping Gu (120 Minutes 6 Papers)

1. Conflict-Free Connection Numbers of Line Graphs
Bo Deng, Wenjing Li, Xueliang Li, Yaping Mao and Haixing Zhao
2. Hamiltonian Cycles in Covering Graphs of Trees
Hiroshi Nishiyama, László Stacho and Pavol Hell
3. Mixed Connectivity of Random Graphs
Ran Gu, Yongtang Shi and Neng Fan
4. On k-Strong Conflict-Free Multicoloring
Luisa Gargano, Adele Rescigno and Ugo Vaccaro
5. The Coloring Reconfiguration Problem on Specific Graph Classes
Tatsuhiko Hatanaka, Takehiro Ito and Xiao Zhou
6. Tropical Paths in Vertex-Colored Graphs
Johanne Cohen, Giuseppe F. Italiano, Yannis Manoussakis, Kim Thang Nguyen and Hong Phong Pham

International Conference on Combinatorial Optimization and Applications (Day 3)

Session 10 Combinatorial Optimization (PLUM BLOSSOM, 梅花厅, 4F)

Chair: Yannis Manoussakis (100 Minutes 5 Papers)

1. Faster Algorithms for 1-Mappability of a Sequence

Mai Alzamel, Panagiotis Charalampopoulos, Costas S Iliopoulos, Solon P Pissis, Jakub Radoszewski and Wing-Kin Sung

2. Improved Methods for Computing Distances between Unordered Trees Using Integer Programming

Eunpyeong Hong, Yasuaki Kobayashi and Akihiro Yamamoto

3. Minimizing Total Completion Time of Batch Scheduling with Nonidentical Job Sizes

Rongqi Li, Zhiyi Tan and Qianyu Zhu

4. Novel Scheduling for Energy Management in Microgrid

Zaixin Lu, Jd Youngs, Zhi Chen and Miao Pan

5. Touring Convex Polygons In Polygonal Domain Fences

Amirhossein Mozafari, Alireza Zarei and Arash Ahadi

Session 11 Application (PEONY, 牡丹厅, 4F)

Chair: Francis Y.L. Chin (100 Minutes 5 Papers)

1. A Simple Greedy Algorithm for the Profit-Aware Social Team Formation Problem

Shengxin Liu and Chung Keung Poon

2. Bounds for Static Black-Peg AB Mastermind

Christian Glazik, Gerold Jager, Jan Schiemann and Anand Srivastav

3. Classification Statistics in RFID Systems

Zhenzao Wen, Jiapeng Huang, Linghe Kong, Min-You Wu and Guihai Chen

4. Doctor Rostering in Compliance with the New UK Junior Doctor Contract

Anna Lavygina, Kristopher Welsh and Alan Crispin

5. Generalized Bidirectional Limited Magnitude Error Correcting Code for MLC Flash Memories

Akram Hussain, Xinchun Yu and Yuan Luo



Session 12 Demo and Application (PLUM BLOSSOM, 梅花厅, 4F)

Chair: Xiaofei Liu (Fast Track, 80 Minutes 8 Papers)

1. A Local Search Approximation Algorithm for A Squared Metric k-Facility Location Problem
Dongmei Zhang, Dachuan Xu, Yishui Wang, Peng Zhang and Zhenning Zhang
2. A New Approximation Algorithm for the Maximum Stacking Base Pairs Problem from RNA Secondary Structures Prediction
Aizhong Zhou, Haitao Jiang, Jiong Guo and Daming Zhu
3. Approximation Algorithms for the Generalized Stacker Crane Problem
Jianping Li, Xiaofei Liu, Weidong Li and Li Guan
4. Combinatorial Approximation algorithms for Spectrum Assignment Problem in Chain and Ring Networks
Guangting Chen, Lei Zhang, An Zhang and Yong Chen
5. Fast Approximation Algorithms for Computing Constrained Minimum Spanning Tree
Pei Yao and Longkun Guo
6. Longest Previous non-overlapping Factors Table Computation
Supaporn Chairungsee and Maxime Crochemore
7. Online Algorithms for Non-Preemptive Speed Scaling on Power-Heterogeneous Processors
Aeshah Alsughayyir and Thomas Erlebach
8. The Euclidean Vehicle Routing Problem with Multiple Depots and Time Windows
Liang Song and Hejiao Huang

Session 13 Demo and Application (PEONY, 牡丹厅, 4F)

Chair: Boting Yang (Fast Track, 80 Minutes 8 Papers)

1. A Memetic Algorithm for the Linear Ordering Problem with Cumulative Costs
Taoqing Zhou, Zhipeng Lu, Tao Ye and Kan Zhou
2. Modeling and Verifying Multi-Core Programs
Nan Zhang and Zhenhua Duan
3. On Adaptive Bitprobe Schemes for Storing Two Elements
Deepanjan Kesh
4. On the Linearization of Scaffolds sharing Repeated Contigs
Mathias Weller, Annie Chateau and Rodolphe Giroudeau
5. On Structural Parameterizations of the Matching Cut Problem
N R Aravind, Subrahmanyam Kalyanasundaram and Anjeneya Swami Kare
6. Optimal Topology Design of High Altitude Platform based Maritime Broadband Communication Networks
Jianli Duan, Tiange Zhao and Bin Lin
7. Planar Vertex-Disjoint Cycle Packing: New Structures and Improved Kernel
Qilong Feng, Xiaolu Liao and Jianxin Wang
8. Research on Arrival Integration method for Point Merge System in Tactical Operation
Yannan Qi, Xinglong Wang and Chen Chen

10. Activities

Banquet

- Time: December 16th, 18:20-21:00.
Site: CTC RESTAURANT, 3F, Jianguo Hotel.
1. Best Paper Award
2. COCOA 2018 Chair Warm-up
3. Special Event: SJTU SHOW



Cruise Buffet (Huangpu River)

- Time: December 17th, 17:00-
Sponsor: Cardinal Operations
Site: No.32 of Qinhuangdao Road,
near Guihua Road.

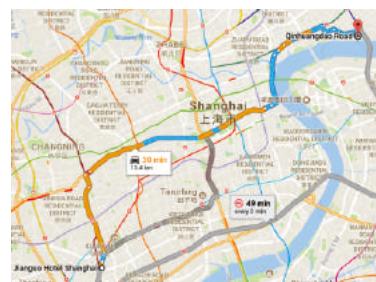
Boat: Floor 1, Lan Sen.

Traffic:

1. We provide bus from Jianguo Hotel to the cruise site for free.
2. You can go there by your self.

Taxi: Around 35 mins, ~¥50.

Subway: Line 4, from Shanghai Indoor Stadium Station to Yangshupu Station, around 45mins, ~¥5.



11. About Shanghai

Shanghai is one of the four direct-controlled municipalities of China and the most populous city proper in the world with a population of more than 24 million as of 2014. It is a global financial centre and transport hub, with the world's busiest container port. Located in the Yangtze River Delta, it sits on the south edge of the estuary of the Yangtze in the middle portion of the East China coast. The municipality borders the provinces of Jiangsu and Zhejiang to the north, south and west, and is bounded to the east by the East China Sea.

Shanghai has been described as the "showpiece" of the booming economy of mainland China; renowned for its Lujiazui skyline, and museums and historic buildings, such as those along The Bund, as well as the City God Temple and the Yu Garden.

Guide to Shanghai

Located in central Shanghai, the Bund is a must-see for all visitors. Also known as 'Wai Tan' (literally, 'outer bank'), the Bund is a waterfront area from which you can enjoy the best views of China's tallest and most colorful buildings.

The Shanghai Museum is a museum of ancient Chinese art, situated on the People's Square in the Huangpu District of Shanghai, China. Rebuilt at its current location in 1996, it is considered one of China's first world-class modern museums. As a large museum of ancient Chinese art, the Shanghai Museum boasts a collection of 140,000 precious relics, featuring bronzes, ceramics, paintings and calligraphy. The abundance and quality of the collection have enjoyed a high reputation both at home and abroad.



Shanghai Museum (上海博物馆)



The Bund (外滩)

The City God Temple is located in the most prosperous area in Shanghai. It is an important Taoist temple in the Shanghai area. The City God Temple has a history of more than 600 years. It has been repeatedly rebuilited and repaired in history due to natural erosion and artificial destruction. Today, the City God Temple receives many foreign visitors, the twisting lanes are now filled with

vendors selling China's Small import goods. Tourists can buy everything from balloons to mahjong pieces. The City God Temple is also famous for its snack store which sell various steamed dumplings and wontons, and so on.



The City God Temple (城隍庙)



The Yuyuan Garden (豫园)

The Yuyuan Garden area is the most traditional region in Shanghai. It is a historic area, featuring religion, shopping, catering, and leisure. As the origin of urban Shanghai, it offers an insight into traditional Chinese urban life. The Yuyuan Garden area is located a few blocks south of the Bund. This area had been the downtown of Shanghai for several hundred years before 1980s. The major portion of this area is taken up by more than 100 specialty shops and restaurants. When the local people have holidays, they would habitually come to the Yuyuan Garden for fun.

Shanghai Disneyland Park, located in Chuansha New Town of Pudong New Area, is officially confirmed to open on June 16th, 2016. As the sixth in the world and the second in China, Shanghai Disneyland creates many records among the existing Disney parks. It has the tallest theme Castle – Enchanted Storybook Castle, the first garden-designed zone, and the first pirate-themed garden. It also combines movie figures with Chinese culture, like the Chinese Zodiac Murals in the Gardens of Imagination. Visitors can also enjoy classical musicals and stage plays, like Tarzan: Call of the Jungle, Frozen: A Sing-along Celebration, and the Lion King. Mickey's Storybook Express cruises through the six parks during the day. With inspiring music, the movie figures put on interesting performances on the street and give guests an unforgettable great time.



Shanghai Disneyland Park (上海迪士尼乐园)

Qibao Ancient Town is Located in the center of Minhang District of Shanghai. As the only ancient town forming part of greater Shanghai, with a history spanning over one thousand years, Qibao is more than just a living fossil of ancient Chinese conurbation and urban planning. The town was built in Northern Song Dynasty (960-1126) and grew into a prosperous business center during Ming (1368-1644) and Qing Dynasties (1644-1911). Qibao Temple, Crickets and Shadow Play in Qibao Ancient Town are famous around China. Moreover, a great variety of snacks will attract your eye and tempt your palette when you are walking the streets of the old town.



Qibao Ancient Town (七宝古镇)



Tianzifang (田子坊)

Tianzifang is located in the Lane NO.210, Taikang Road in Shanghai City. Tianzifang is a vanguard of creative expressions. Every boutique shines with flashes of wit and creativity with one of a kind handmade novelty items. Tourists from overseas sit outside a café, while inhabitants hurry by. Most old walls are used as panels to exhibit latest elaborate doodles in bright colors. Tianzifang survives the surrounding city demolition by working in art. Its preservation is significant for the city's cultural heritage.

The Bund Sightseeing Tunnel goes under the Huangpu River connecting the Bund and Lujiazui Area of Pudong District. Its length is 646.7 meters. The Bund Sightseeing Tunnel is almost a virtual facility under the ground and provides a memorable experience of the special multimedia effects. The compartments of sightseeing maglev train are completely transparent and it allows the 360 degrees view. The six channel surround system amplifies the experience and the sound effects change as the scenery changes. The compartments are unmanned and it provides steady and fluent ride. It takes 3-5 minutes to travel through the tunnel and enjoy the sites to the fullest.



The Bund Sightseeing Tunnel (外滩观光隧道)

Food in Shanghai

Yang's Fry-Dumpling is a Chinese fast food chain, specializing in dumplings and dumpling soups. With its humble restaurant design, you probably wouldn't expect to find food this tasty inside without knowing anything about the place — on the other hand, the unavoidable queues outside indicate that it might just be worth giving it a try!



Yang' s Fry-Dumpling (小杨生煎)



Fresh Meat Moon Cake is a traditional dessert in the south part of China, belonging to the Su-style cakes. It is generally produced during the Mid-Autumn Festival. Fresh meat moon cake is the local special snack in Jiangsu, Zhejiang and Shanghai. As the name implies, its stuffing is entirely composed of fresh meat, covered in crisp and pink skin, giving a incredibly delicious taste.

Fresh Meat Moon Cake (鲜肉月饼)

Pork Chop with Rice Cakes, an affordable, unique flavor snacks, has 50 years of history. The best part of this Shanghinese dish is neither the deep-fried pork chop nor the sweet-soy sauce glaze, it's the rice cake. Made of glutinous rice flour, the rice cake has a compact texture that seals the subtle, fragrant taste of sticky rice from any heavy sauce.



Pork Chop with Rice Cakes (排骨年糕)



Crab Shell Pie (蟹壳黄)

Crab Shell Pie is a budget Shanghai snack for hairy crab fans. Although those hairy crustaceans from Yangcheng Lake aren't available year-round, crab shell pie can be found around the town in any season. Baked in a clay oven until golden brown, these little oval pies are stuffed with sweet or savory fillings. The name is inspired by its appearance — freshly baked crab shell pie looks like crispy golden crab shells.

12. Transportation

To Jianguo Hotel

From Hongqiao Railway Station:

Taxi: Around 30 mins, ~¥ 70.

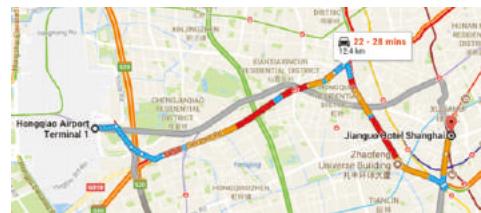
Subway: Line 10→Line 11, around 45mins, ~¥ 4.



From Shanghai Hongqiao International Airport:

Taxi: Around 30 mins, ~¥70.

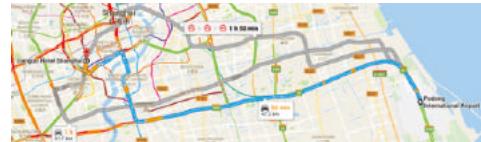
Subway: Line 10→Line 11, around 45mins, ~¥4.



From Shanghai Pudong International Airport:

Taxi: Around 50 mins, ~¥180 .

Subway: Line 2 extend→Line 2→Line1 or Line 9, around 1h 50 mins, ~¥7.



From Shanghai Railway Station:

Taxi: Around 30 mins, ~¥30.

Subway: Line 1, around 30 mins, ~¥4.



13. Contact Information

Conference Contact

Local Organization Chair (Sherman Hung) 13817002309

Jianguo Hotel Contact 021-64399299

Cruise Contact (Yuchen Xia) 15026629962

Financial Contact (Shilei Tian) 15618504802

Local Information

Airport Enquiry 021-62688918

Train Enquiry 021-63179090

Weather Information 121, 021-63228779

Tel No. Enquiry 114

Police Emergencies: 110

(Foreigner's Section: 021-63215380)

Fire: 119, 021-63213535

Ambulance: 120, 021-63240898

14. Notes



COCOA 2017

Shanghai, China, Dec. 16-18

