

GLOBAL FORUM ON THE DISCIPLINE OF
COMPUTER SCIENCE

全球计算机学科发展论坛

PROGRAM

Beijing, 2018.09.15

PREFACE

WELCOME TO THE GLOBAL FORUM ON THE DISCIPLINE OF COMPUTER SCIENCE

The theme of this global forum is “Explore the Nature of Computer Science, Promote the Development of Computer Science Discipline”, which brings together the Heads / Deans of the top computer science departments/schools in the world to discuss how to pay attention to and strengthen the fundamentals of computer science under the current environment of continuously emerging hot directions of computer science, and how to improve the quality of talent cultivation and promote the development of global computer science discipline.

ORGANIZATION

Honorary Chairs

Andrew Chi-Chin Yao, Jia-Guang Sun

Organizing Chair

Jianping Wu

Local Organizing Committee

Peng Cui, Shi-Min Hu, Dan Li, Guoliang Li, Yuchun Ma, Wenwu Zhu

GLOBAL FORUM ON THE DISCIPLINE OF COMPUTER SCIENCE

September 15, 2018, Tsinghua university

Morning	
Conference Room: FIT Lecture Hall	
Opening Session Chair: Prof. Jianping Wu	
8:30-8:35	Opening remarks and introduction to distinguished guests Prof. Jianping Wu
8:35-8:45	Welcome speech Prof. Xu Chen, Council Chairperson ,Tsinghua University
8:45-8:55	Opening address Prof. Andrew Chi-Chih Yao
8:55-9:10	Taking group photo
Keynote Session I Chair: Prof. Ravin Balakrishnan	
9:10-9:35	Keynote speech 1 Topic: What we are doing with CS curriculum @ MIT Prof. Saman Amarasinghe Massachusetts Institute of Technology
9:35-10:00	Keynote speech 2 Topic: Computer Science education in a climate of continuously emerging 'hot' topics Prof. Marta Kwiatkowska University of Oxford
10:00-10:30	Coffee break
Keynote Session II Chair: Prof. Gurindar Sohi	
10:30-10:55	Keynote speech 3 Topic: Interdisciplinary Challenges and Opportunities for Computer Science Prof. Mohan Kankanhalli National University of Singapore
10:55-11:20	Keynote speech 4 Topic: Structural Change of Computer Science and Related Application Fields Prof. Masatoshi Ishikawa The University of Tokyo
11:20-11:45	Keynote speech 5 Topic: Professional Societies in Computing: An Anachronism or an Anchor? Prof. Alexander Wolf University of California,Santa Cruz
11:45-13:30	Lunch

Afternoon Parallel sessions	Session III Conference Room: FIT 1-315 CS curriculum construction and talent cultivation Chair: Prof. Mohan Kankanhalli	Session IV Conference Room: FIT 1-415 Frontier and directions of CS discipline Chair: Prof. Xiaodong Zhang
13:30–13:45	Invited talk 1 Topic: The role and position of computer science in interdisciplinary perspectives Prof. Yike Guo Imperial College London	Invited talk 1 Topic: Interdisciplinary Education in Data Science at USC Prof. Cyrus Shahabi University of Southern California
13:45–14:00	Invited talk 2 Title: Integrating research with industry experience in graduate programs. Prof. Ravin Balakrishnan University of Toronto	Invited talk 2 Topic: Computer Science Fundamentals in the Data-Centric Computing Era Prof. Dit-Yan Yeung The Hong Kong University of Science and Technology
14:00–14:15	Invited talk 3 Topic: Challenges and opportunities in artificial intelligence education. Prof. Adnan Darwiche University of California, Los Angeles	Invited talk 3 Topic: Training Computer Scientists for the Future of Medicine Prof. Karin Verspoor The University of Melbourne
14:15–14:30	Invited talk 4 Topic: The curriculum construction of computer science fundamentals in the new era Prof. Tak Wu Sam Kwong City University of Hong Kong	Invited talk 4 Topic: Can Computer Science of SJTU be promoted to world class? Prof. Minyi Guo Shanghai Jiaotong University
14:30–14:45	Invited talk 5 Topic: Comprehensive Teaching Reform for Top-Notch CS Students: A PKU Perspective Prof. Yao Guo Peking University	Invited talk 5 Topic: Thinking on Development of Computer Science Discipline at Tsinghua Prof. Wenwu Zhu Tsinghua University
14:45–15:45	(1) Free discussion (2) Summary of discussion on curriculum construction and talent cultivation	(1) Free discussion (2) Summary of discussion on Frontier and directions of CS discipline
15:45–16:10	Coffee break	
Closing session Conference Room: FIT Lecture Hall, Chair: Prof. Jianmin Wang		
16:10–16:20	Report of Session III	
16:20–16:30	Report of Session IV	
16:30–17:30	Free discussion and closing remark	
17:30–19:30	Dinner	

Title:

What we are doing with CS curriculum @ MIT



Speaker:

Saman Amarasinghe,
Associate Department Head, MIT

Abstract:

In this talk I will discuss how our CS major has evolved and how MIT is attempting to teach computing beyond the core CS majors.

Biography:

Saman P. Amarasinghe is a Professor and the Associate Department Head in the Department of Electrical Engineering and Computer Science. He leads the Commit compiler group. His research interests are in discovering novel approaches to improve the performance of modern computer systems and make them more secure without unduly increasing the complexity faced by the end users, application developers, compiler writers, or computer architects.

Title:

Computer Science education in a climate of continuously emerging 'hot' topics



Speaker:

Marta Kwiatkowska,

Deputy Head, Department of Computer Science,
University of Oxford

Abstract:

Computer Science is key to unlocking the potential of a wide variety of applications and technologies, from robotics and self-driving cars to DNA computing. Educating the next generation of scientists and technologists in a climate of continuously emerging 'hot' directions presents significant challenges. This lecture will explore how to strike a balance between teaching emerging versus traditional topics, foundational versus practical material, and small class teaching versus massive online courses, to maintain the health of the discipline.

Biography:

Marta Kwiatkowska is Professor of Computing Systems and Fellow of Trinity College. She is the Head of the Automated Verification Theme and Deputy Head of Department for Research at Oxford's Department of Computer Science. Her research is concerned with modelling and analysis methods for complex systems, such as those arising in computer networks, electronic devices and biological organisms. Marta Kwiatkowska spearheaded the development of probabilistic and quantitative methods in verification on the international scene. She led the development of the PRISM model checker, the leading software tool in the area and widely used for research and teaching and winner of the HVC 2016 Award. She won the ERC Advanced Grant VERIWARE 'From software verification to "everyware" verification' and is co-investigator of the EPSRC Programme Grant on Mobile Autonomy. Marta Kwiatkowska is a Fellow of ACM and member of Academia Europea. She was awarded an honorary doctorate from KTH Royal Institute of Technology in Stockholm in 2014 and is the first female winner of the 2018 Royal Society Milner Award and Lecture.

Title:

Interdisciplinary Challenges and Opportunities for Computer Science



Speaker:

Mohan Kankanhalli,

Dean, School of Computing, Provost's Chair Professor of Computer Science, National University of Singapore

Abstract:

Computing is fundamentally transforming all aspects of our society. As a result, there are many interesting new problems and issues arising at the intersection of Computer Science and other disciplines. While the prospects are exciting, there are many challenges involved in pursuing interdisciplinary research. Using examples of research done at NUS in areas such as FinTech, Healthcare and Computational Social Science, we will illustrate specific challenges and opportunities.

Biography:

Mohan Kankanhalli is Provost's Chair Professor of Computer Science at the National University of Singapore (NUS). He is also the Dean of NUS School of Computing. Before becoming the Dean in July 2016, he was the NUS Vice Provost (Graduate Education) during 2014-2016 and Associate Provost during 2011-2013. His current research interests are in Multimedia Computing, Information Security & Privacy, Image/Video Processing and Social Media Analysis. He directs the SeSaMe (Sensor-enhanced Social Media) Centre which does fundamental exploration of social cyber-physical systems which has applications in social sensing, sensor analytics and smart systems. He is on the editorial boards of several journals including the ACM Transactions on Multimedia, Springer Multimedia Systems Journal, IEEE Multimedia and Springer Journal of Big Data. He is a Fellow of IEEE.

Title:

Structural Change of Computer Science and Related Application Fields



Speaker:

Masatoshi Ishikawa,

Dean, Graduate School of Information Science and Technology, The University of Tokyo

Abstract:

Basic structure of Science and technology has been changed from positivistic induction to constructive deduction. Based on the change, information science and technology including computer science should be also changed. In other words, driving force of computer science would be generated by creation of new values designed by positive hypotheses, synthetic approach, or transdisciplinary exploration instead of analytic approach, or establishment of discipline.

After I explain such structural change, essence of originality and creativity, new strategy of research for generating values, and design method of the Future will be discussed. In addition, new trends in artificial intelligence, smart systems, high speed image processing will be explained as an example.

Biography:

Masatoshi Ishikawa is a professor at the University of Tokyo, where he is developing high-speed vision, visually controlled high-speed robots, high-speed book scanner, high-speed target tracking, dynamic projection mapping, immersive gesture interface, among other projects. He received the B.E., M.E., and Dr. Eng. degrees in mathematical engineering and information physics from the University of Tokyo, Japan, in 1977, 1979, and 1988, respectively. After he worked at Industrial Products Research Institute, Tsukuba, Japan, he moved to the University of Tokyo in 1989. He was an executive adviser to the president, a vice-president and an executive vice-president of University of Tokyo, from 2004 to 2005, from 2004 to 2005, and from 2005 to 2006, respectively.

Title:

Professional Societies in Computing: An Anachronism or an Anchor?



Speaker:

Alexander Wolf,

Dean of the Baskin School of Engineering, University of California, Santa Cruz, Former President of ACM

Abstract:

Having served as a volunteer leader of a professional society for over twenty years, I have come to appreciate the tremendous positive influence it can have, both on individuals and on the profession as a whole. Yet the viability and role of professional societies are being challenged as we move toward a more implicitly connected, open, and accessible world. Seen from the perspective of the Association of Computing Machinery (ACM), this talk looks at the deep and difficult question of whether the current model of a professional society in computing is sustainable, or even necessary, in the 21st century.

Biography:

Alexander L. Wolf serves as Dean of the Baskin School of Engineering and is a Distinguished Professor of Computer Science and Engineering at the University of California, Santa Cruz (US). Prof. Wolf's research interests span the areas of distributed systems, networking, and software engineering. His achievements include seminal work in software architecture, business analytics, and information-centric networks. His more recent projects concern cloud computing, data-center networking, and service-based systems hosted on MANETs. Prof. Wolf is a Fellow of the ACM, a Fellow of the IEEE, a Chartered Fellow of the British Computer Society (BCS), holder of a Royal Society-Wolfson Research Merit Award, two-time recipient of an ACM SIGSOFT Research Impact Award, recipient of both the ACM SIGSOFT Outstanding Research Award and Distinguished Service Award, and recipient of an Alumni Award for Outstanding Achievement in Research from the Department of Computer Science at the University of Massachusetts at Amherst. Prof. Wolf served as President of the Association for Computing Machinery (ACM) and chaired the Executive Committee (EC) of the ACM Council, the governing authority of the association. He was also a founding member of the ACM Europe Council and was a long-time participant in the ACM Distinguished Speakers Program (DSP).

Title:

The role and position of computer science in interdisciplinary perspectives



Speaker:

Yike Guo,

Professor of Computing Science, Founding Director of the Data Science Institute, Imperial College

Abstract:

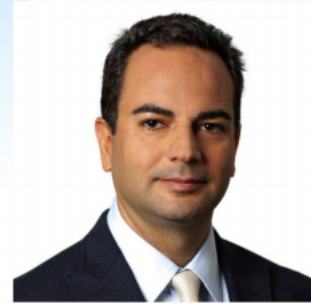
Data science is inherently multidisciplinary. It aims to study the methods of deriving knowledge from data (observations) whereas the knowledge itself is the subject of the underlying domain where the data come from. Data science institutes have been established in many universities to facilitate this multidisciplinary research. The development of data science institute has revealed various challenges in positioning computer science within this broad research landscape. In this talk, I will share my experience in developing the data science institute at Imperial College with the goal to stimulate a discussion of the important issue on the role and position of computer science in multidisciplinary research.

Biography:

Yike Guo is a Professor of Computing Science in the Department of Computing at Imperial College London. He is the founding Director of the Data Science Institute at Imperial College, as well as leading the Discovery Science Group in the department. He has been working on technology and platforms for scientific data analysis since the mid-1990s, where his research focuses on knowledge discovery, data mining and large-scale data management. Professor Guo has published over 200 articles, papers and reports. Projects he has contributed to have been internationally recognised, including winning the “Most Innovative Data Intensive Application Award” at the Supercomputing 2002 conference for Discovery Net, and the Bio-IT World “Best Practices Award” for U-BIOPRED in 2014. He is a Senior Member of the IEEE and is a Fellow of the British Computer Society. He is elected as a Fellow of Royal Academy of Engineering in 2018.

Title:

Interdisciplinary Education in Data Science at USC



Speaker:

Cyrus Shahabi,

Chair of the Computer Science Department
Professor of Computer Science, Electrical Engineering
and Spatial Sciences at USC

Abstract:

In this talk, I will present our work in creating a new interdisciplinary program within computer science, to educate non-computer-science students in data science, both at undergraduate and graduate levels. We have started four MS degrees with four schools in Policy, Communication and Journalism, Health and Geography; we have also started an undergraduate second degree in data science.

Biography:

Cyrus Shahabi is a Professor of Computer Science, Electrical Engineering and Spatial Sciences, and the chair of the Computer Science Department. He is also the Director of the Integrated Media Systems Center (IMSC) and the Informatics Program at USC's Viterbi School of Engineering. He was the CTO and co-founder of a USC spin-off, Geosemble Technologies, which was acquired in July 2012. Since then, he founded another company, ClearPath (recently rebranded as TallyGo), focusing on predictive path-planning for car navigation systems. Dr. Shahabi is a fellow of IEEE, and a recipient of the ACM Distinguished Scientist award in 2009, the 2003 U.S. Presidential Early Career Awards for Scientists and Engineers (PECASE), the NSF CAREER award in 2002, and the 2001 Okawa Foundation Research Grant for Information and Telecommunications.

Title:

Integrating research with industry experience in graduate programs.



Speaker:

Ravin Balakrishnan

Chair and Professor at the Department of Computer Science, University of Toronto

Abstract:

Eight years ago the Computer Science department at Toronto launched a new Master's program in Applied Computing that integrated graduate coursework with an applied-research industry internship. This integrated approach was intended to provide an alternate stream to our traditional research intensive Masters and PhD programs for those students interested in industry careers. This has been a rather interesting experiment, with numerous benefits and pitfalls not all of which were anticipated a-priori, and dovetails in interesting ways with the current AI gold rush. I will discuss our experience with both this program and dealing with the gold rush, and our ideas on next steps including partnerships with cognate departments within and outside the university to expand these sorts of applied research masters degrees more broadly.

Biography:

Ravin Balakrishnan is the Chair and a Professor at the Department of Computer Science, University of Toronto where he co-directs the Dynamic Graphics Project (DGP) laboratory, and is currently serving as the department's chair. His research interests are in Human Computer Interaction (HCI), Information and Communications Technology for Development, and Interactive Computer Graphics. He earned his Ph.D. in Computer Science from the University of Toronto, working with Bill Buxton, while concurrently a part-time researcher at Alias|wavefront (now part of Autodesk). He was elected to the ACM CHI Academy in 2011, is the recipient of an Alfred P. Sloan Research Fellowship (2007), an Ontario Premier's Research Excellence Award (2003), the Bell University Laboratories Associate Chair in HCI at the University of Toronto (2002-2006), a Canada Research Chair (2006-2016) and multiple best paper type awards at the top conferences in his field (ACM CHI, CSCW, UIST).

Title:

Challenges and opportunities in artificial intelligence education.



Speaker:

Adnan Darwiche,

Professor and Chairman of the Computer Science Department at UCLA

Abstract:

A main theme of the talk will be that we need to profoundly understand what just happened in the field of artificial intelligence so we are better prepared for the future. I will therefore give a perspective on recent developments in artificial intelligence while putting them in a historical context. I will then discuss emerging challenges and opportunities for computer science departments in educating the new generation of artificial intelligence researchers and practitioners.

Biography:

Adnan Darwiche is a professor and chairman of the computer science department at UCLA. He holds M.S. (1989) and Ph.D. (1993) degrees in computer science from Stanford University. Served as Editor-in-Chief for the Journal of Artificial Intelligence Research (JAIR) and is a AAAI Fellow. His research interests span probabilistic and symbolic reasoning, and their applications including machine learning. Professor Darwiche directs the Automated Reasoning Group at UCLA.

Title:

Computer Science Fundamentals in the Data-Centric Computing Era



Speaker:

Dit-Yan Yeung,

Professor and Acting Head, Department of Computer Science and Engineering, Hong Kong University of Science and Technology

Abstract:

Over the past decade or so, we have witnessed a gradual shift from compute-centric systems based primarily on a moderate amount of structured data to data-centric computing systems that also operate on an overwhelming amount of unstructured data. This paradigm shift calls for revisiting the question of what constitute the fundamentals of computer science that we expect all students to learn early in a computer science curriculum. In this presentation, some important concepts of data-centric computing that are missing in the typical foundation courses of most existing computer science curricula are highlighted for consideration in future curriculum revision efforts.

Biography:

Prof Yeung received his BEng degree in electrical engineering and MPhil degree in computer science from the University of Hong Kong (HKU), and PhD degree in computer science from the University of Southern California (USC) in 1989. Prof Yeung started his academic career in the same year as an assistant professor at the Illinois Institute of Technology (IIT) in Chicago. He then joined the Hong Kong University of Science and Technology (HKUST) where he is now a full professor in computer science and engineering. His research interests are primarily in computational and statistical approaches to machine learning and artificial intelligence. He is also interested in developing novel machine learning models for various applications particularly in computer vision, recommender systems, and education. He publishes frequently in top conferences in machine learning, artificial intelligence, and computer vision.

Title:

**The curriculum construction of
computer science fundamentals
in the new era**



Speaker:

Tak Wu Sam Kwong,

Past Head (CS) & Professor of City University
Hong Kong

Abstract:

Computer Science is one of the disciplines which experience most changes in the last few decades, how to design an ideal curriculum for this purpose is a challenging task.

In this talk, I will discuss and explore the ideal curriculum for computer Science in the new era. Also, I will give some thoughts on this topic and share my experiences of the curriculum design at City University of Hong Kong.

Biography:

Prof Kwong joined City University as a lecturer in the Department of Electronic Engineering in 1989. Before joining City University, he worked for Control Data Canada and Bell Northern Research as diagnostic engineer and member of Scientific Staff, respectively. At present, he is the associate editor of the IEEE transactions on Industrial Informatics and IEEE Transactions on Industrial Electronics, Journal of Information Sciences. He is also the Admissions Officer for the graduate programme in the Department. His research interests are evolutionary algorithms, pattern recognition, digital watermarking, video coding and network intrusion systems.

Title:

Training Computer Scientists for the Future of Medicine



Speaker:

Karin Verspoor,

Professor of Computing and Information Systems,
The University of Melbourne

Abstract:

Machine learning -- the use of computational algorithms to find patterns in data -- is increasingly being deployed in clinical contexts to support diagnosis and treatment decisions. In the context of growing volumes of clinical data available in electronic form, there is an opportunity to realise dramatic changes in the practice of medicine through the application of large-scale health data analytics and predictive modeling. However, this requires us to prepare computer science students for this context, where not only are the technical tools relevant but also an understanding of how data is generated and used in the course of clinical decision making. I will discuss the challenges of interdisciplinary training in computational medicine and some strategies for achieving it.

Biography:

Professor Karin Verspoor is Deputy Head of the School of Computing and Information Systems, Deputy Director of the Health and Biomedical Informatics Centre, and Deputy Director of the ARC Training Centre on Cognitive Computing for Medical Technologies at the University of Melbourne. She also serves as a Director of BioGrid Australia, which operates a federated data sharing platform for collaborative translational health and medical research. Trained as a computational linguist, Karin's research primarily focuses on extracting information from clinical texts and the biomedical literature using machine learning methods to enable biological discovery and clinical decision support. Karin held previous posts as the Scientific Director of Health and Life Sciences at NICTA Victoria Research Laboratory, at the University of Colorado School of Medicine, and Los Alamos National Laboratory. She also spent 5 years in start-ups during the US Tech bubble, where she helped design an early artificial intelligence system.

Title:

**Comprehensive Teaching Reform
for Top-Notch CS Students: A PKU
Perspective**



Speaker:

Yao GUO,

Professor and Vice Chair, Dept. of Computer Science,
Peking University

Abstract:

In this talk, I will give a brief overview of our comprehensive teaching reform effort for top-notch CS undergraduate students at PKU during the past ten years, aiming at producing future leaders in computer science research and innovation. In particular, I will talk about our approaches in honor-track courses, small class teaching, research-oriented agenda, international summer program, innovation courses, etc. The program has been supported by an MOE funding for top-notch students.

Biography:

Yao Guo is a professor and vice chair of computer science at the School of EECS, Peking University. His recent research interests include operating systems, mobile app analysis, as well as privacy and security of mobile systems. He has received multiple awards for his research work and teaching, including an Honorable Mention Award from UbiComp 2016, as well as a Teaching Excellence Award from Peking University. He received his PhD degree in computer engineering from University of Massachusetts, Amherst in 2007, and BS/MS degrees in computer science from Peking University.

Title:

Can Computer Science of SJTU be promoted to world class?



Speaker:

Minyi Guo,
Shanghai Jiao Tong University.

Abstract:

Computer science in China has grown rapidly and contributed significantly to its economic development. In specific, the CS department in Shanghai Jiao Tong University has grown from tens of faculty with two research directions to nearly eighty faculty members with seven parallel directions in 34 years. However, we still fall behind on the road of promoting the CS to a world-class major. In this talk, I will share my experience of leading the development of CS major in SJTU, then my thoughts on the requirements of the world-class CS major, and finally present the challenges and efforts to advance the major to the next level.

Biography:

Minyi Guo is Zhiyuan Chair professor and chair of the Department of Computer Science and Engineering, Shanghai Jiao Tong University (SJTU), China. Before joined SJTU, Dr. Guo had been a professor of the 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, and was supported by “Recruitment program of Global Experts” in 2010. His present research interests include parallel/distributed computing, compiler optimizations, embedded systems, big data processing, and cloud computing. He has more than 300 publications in major journals and international conferences in these areas. He received 5 best paper awards from international conferences. He is on the editorial board of IEEE Transactions on Parallel and Distributed Systems and IEEE Transactions on Cloud Computing. Dr. Guo is a fellow of IEEE, and a fellow of CCF.

Title:

Thinking on Development of Computer Science Discipline at Tsinghua



Speaker:

Wenwu Zhu

Professor and Vice Chair of the Department of
Computer Science, Tsinghua University

Abstract:

It is full of challenges to build a world-class computer science discipline and achieve world-renowned innovations. In this talk, I will introduce the challenges we face and our thoughts in developing computer science discipline at Tsinghua. I will first retrospect the millstones achieved in the past 60 years at Tsinghua computer science discipline. Then I will present the challenges and bottlenecks to promote the development of computer science discipline and explore the nature of computer science in the environment where new directions and new technology are constantly emerging. Finally, I will introduce our thinking and measures we have taken to face these challenges.

Biography:

Wenwu Zhu is a Professor and Vice Chair of the Department of Computer Science, Tsinghua University, Beijing, China. Prior to his current position, he was a Senior Researcher and a Research Manager with Microsoft Research Asia, Beijing, China. He was the Chief Scientist and the Director with Intel Research China, Beijing, China, from 2004 to 2008. He was at Bell Labs, Murray Hill, NJ, USA, as a Member of Technical Staff from 1996 to 1999. He received the Ph.D. degree from the New York University, New York, NY, USA, in 1996. His current research interests include multimedia computing and networking, media big data and cross-media AI. He is an IEEE Fellow, AAAS Fellow, and SPIE Fellow. He has been serving as the Editor-in-Chief for the IEEE Transactions on Multimedia (T-MM) since January 1, 2017. He was the recipient of six Best Paper Awards including IEEE Trans. on CSVT in 2001 and ACM Multimedia 2012.

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