





John Hopcroft Center for Computer Science

Shanghai Jiao Tong University

Overview





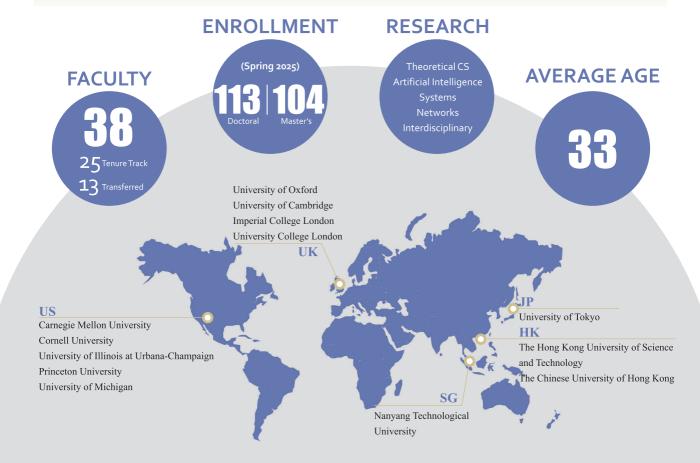
The Inauguration Ceremony

The John Hopcroft Center for Computer Science at Shanghai Jiao Tong University, established in January 2017, is named after John Hopcroft, a Turing Award winner, Foreign Member of the Chinese Academy of Sciences. The center is led by him as the director.

Mission: Create a relaxed and open international academic environment, recruit promising young scholars, and help them grow into world-class scholars in the field of computer science, significantly raising the level of computer science research and education in China.

Explore and perfect internationally advanced mechanisms for cultivating talents in computer science and related interdisciplinary fields.

Assessment: The center does not solely rely on the traditional, singular assessment methods such as the number of papers, fundings, and awards. Instead, it encourages faculty teach two high-quality courses and to publish one high-quality paper each year.



Director, John Hopcroft



Honored with 2023 China International Science and Technology Cooperation Awara

John Hopcroft, a world-renowned computer scientist, is a member of the U.S. National Academy of Sciences, the National Academy of Engineering, and the American Academy of Arts and Sciences, as well as a foreign member of the Chinese Academy of Sciences. He is a recipient of the Turing Award in 1986. He is currently an Emeritus Professor at Cornell University and a Visiting Chair Professor at Shanghai Jiao Tong University.

Over the past thirteen years, he established the John Hopcroft Center for Computer Science at Shanghai Jiao Tong University, personally participating in faculty recruitment and training, and nurturing a significant number of emerging talents. He has taught twenty undergraduate courses in China and authored two textbooks, which were published without compensation.



Taught a total of 20 undergraduate courses over 13 years in person



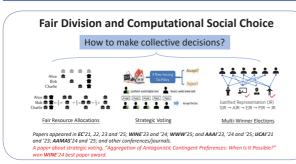
Frequently discuss with faculties from the John Cente.

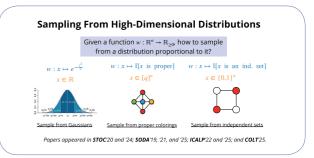
Academic Research

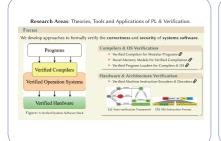
After years of development, the center has formed four stable and mature research directions: Theoretical Computer Science, Artificial Intelligence, System Architecture, Network Communications. With an open and inclusive attitude, the center actively recruits talents from Interdisciplinary Sciences.

Theoretical Computer Science

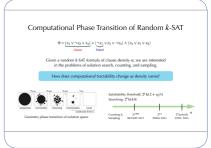
Featured Research Topics





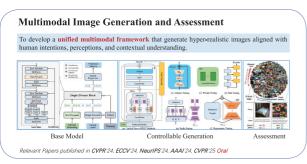


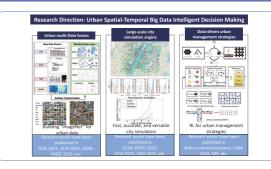




Artificial Intelligence

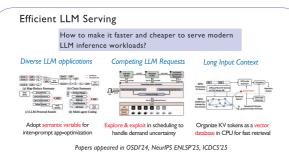
Featured Research Topics

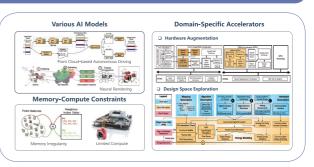




System Architecture

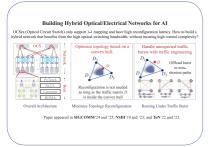
Featured Research Topics

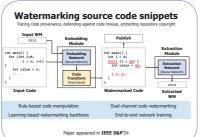


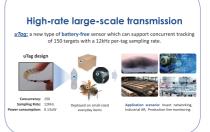


Network Communications

Featured Research Topics

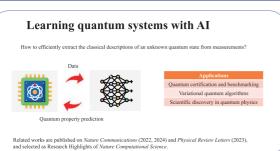


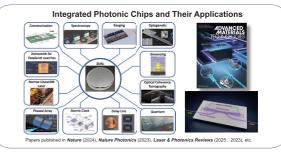




Interdisciplinary Sciences

Featured Research Topics





Research Achievements

ASPLOS 2025 Best Paper Award

WINE 2024 Best Paper Award

Conference on Robot Learning 2020 Best System Paper Award

IEEE T-ASE 2024 Best New Application Paper Award

Optical Foundation 20th Anniversary Challenge Award









OPTICA FOUNDATION

> Eric Mazur Chair George Bayz Treasurer Satoshi Kawata Optica President Elizabeth Rogan Optica CEO

Executive Director

01 November 2022

Xingchen Ji Shanghai Jiao Tong University Rm1-105, Department of Electrical Engineering Shanghai Shanghai 200240 China

Dear Xingchen Ji,

Congratulations, you have been selected as a winner of the 2022 Optica Foundation 20th Anniversary Challenga. This program supports earlycraere members with the opportunity to leverage optics and photonics in driving new scientific discoveries and breakthroughs to transform our world.

Educate and Inspire

The center actively explores new models of teaching and educating, focuses on improving teaching quality, and encourages outstanding young scholars to teach courses.

Mission: Treat undergraduate teaching as the top priority, and cultivate the excellent to be even more outstanding.



Lecture notes that are widely praised by students

Teaching Awards



Honored with the First SJTU Distinguished Teacher Award



Awarded with the 24th SJTU Outstanding Teaching Nomination Award



Awarded with "Outstanding Contribution Award for High School and University Connection"



Awarded with the Longhu Teaching Award by SJTU Zhiyuan College



Awarded with the SJTU Zhiyuan Honors Teaching Faculty



Awarded with the SJTU "Zhu Guang" Award



Awarded with the SJTU "Jia He" Outstanding Teaching Award

Outstanding Graduate Students







Awarded with 11th Baidu Scholarship (the only theoretical research scholar)





Awarded with the Optica Women Scholars Award (the only Asian student recipient)

Outstanding Graduates in Shanghai



John Hopcroft Dierctor



Yu Yu Executive Director

Meet Our Faculty



Quanshi Zhang Deputy Director



Haiming Jin Deputy Director



Shuai Li Deputy Director



Zhouhan Lin
Deputy Director



Bo Jiang
Performance Evaluation and
Optimization
UMass Amberst



Chihao Zhang
Theoretical Computer Science
Shanghai Jiao Tong University



Liyao XiangSecurity and Privacy
University of Toronto



Shizhen Zhao
Optimization of Networked Systems
Purdue University



Ye Pan Characters/Avatars University College Londo



Jiaxin Ding
Spatio-temporal Data Mining
Stony Brook University



Yuting Wang
Formal Verification and
Programming Languages
University of Minnesota, Twin Cities



Chen Chen
Distributed Deep Learning
The Hong Kong University of
Science and Technology



Xingchen Ji
Integrated Photonics
Cornell University



Guanjie Zheng
Data-driven Decision Making
The Pennsylvania State University



Dongyao Chen IoT System and Security University of Michigan, Ann Arbor



Nanyang Ye
Deep Learning
University of Cambridge



Yehan Ma Industrial Internet of Things Washington University



Biaoshuai TaoTheoretical Computer Science *University of Michigan*



Kuan Yang
Theoretical Computer Science
University of Oxford



Yuhao Zhang
Theoretical Computer Science
The University of Hong Kong



Meng Jin
Wireless Communication
Northwest University



Xiaohong Liu

Deep Learning, Computer Vision

McMaster University



Yadong Wu Quantum Information, AI fo quantum University of Calgary



Wei Li
CG & Physical simulation &
Physics-based intelligence
University of Chinese Academy
of Sciences



Weiwen Liu

Large language models and

Recommendation algorithms

the Chinese University of Hong Kong



Sixue LiuGraph Theory and Algorithm

Design

Princeton University



Shiyu Liang Machine Learning,Optimization University of Illinois at Urbana-Champaign



Yu Feng
Efficient and High-performance
Mobile Visual Computing
University of Rochester



Tao Huang
Efficient Deep Learning,
Computer Vision
The University of Sydney

Collaboration and Engagement



Open Positions

The John Hopcroft Center for Computer Science at Shanghai Jiao Tong University is seeking to fill several tenure-track positions in computer science at the rank of Assistant Professor and Associate Professor starting on a mutually agreed date. Faculty duties include research, teaching at the undergraduate and graduate levels, and research supervision. Candidates should hold a Ph.D. in computer science or a related field by the start of employment.

How to apply:

To apply, please submit a curriculum vita (CV) to Prof. Yu and Prof. Jin at jhc@sjtu.edu.cn. Applications will be accepted until all positions are filled.

