Dr Tang Yong

Department of Digital and Intelligent Technology | Professor

Biography

Dr Tang Yong, originally from Zhangjiajie, Hunan Province, holds a doctorate and is a senior professor at the Grade II level and a Doctoral Supervisor. He graduated from Wuhan University, Central South University, and the University of Science and Technology of China. He previously served as a Professor at South China Normal University, a Distinguished Scientist at Pazhou Lab and Vice President of Guangdong University of Science and Technology. Dr Tang's research interests include social networks, data intelligence and collaborative computing. He has served as Principal Investigator for more than 60 national-level research projects and received a number of provincial and ministerial-level awards. Dr Tang founded SCHOLAT, an academic social networking platform, and has published more than 100 high-quality papers. He is a National-level Teaching Master, a Leading Professional under the National Special Support Programme for High-Level Talent, also known as the 10,000 Talent Programme, and has made substantial contributions to both academic research and teaching.

Professional Qualifications

National-level Teaching Master, Leading Professional under the National Special Support Programme for High-Level Talent, also known as the 10,000 Talent Programme, Expert receiving the Special Government Allowance of the State Council, New Century Excellent Talent

(Ministry of Education) and Distinguished Member of China Computer Federation (“CCF”).

Employment History, including Postdoctoral Appointments

- Teaching Assistant, Changsha Railway University, now Central South University
- Lecturer, Wuhan University
- Deputy Director, Associate Professor and Professor, Department of Computer Science, Guangdong University of Technology
- Deputy Dean of the School of Information Science and Technology and Director of the Department of Computer Science, Sun Yat-sen University
- Senior Professor at the Grade II Level and Doctoral Supervisor, South China Normal University
- Distinguished Scientist, Pazhou Lab

Education

- Sep 1981 – Jun 1985 Bachelor of Science in Computer Science, Department of Computer Science, Wuhan University
- Sep 1987 – Jun 1990 Master’s Degree in Computer Applications, Changsha Railway University, now Central South University
- Jun 1990 Master of Engineering, Wuhan University
- Oct 1998 – Jun 2001 Doctor of Engineering, Graduate School of the University of Science and Technology of China (Beijing)

Research Interests

Academic social networks, data intelligence, collaborative computing and temporal databases.

Teaching

Academic special-topic project teaching and dissertation supervision.

Social Service

- Council Member of the China Computer Federation ("CCF") and Director of the CCF Professional Committee on Collaborative Computing;
- Executive Vice President of the Computer Academy of Guangdong
- Head of the Ministry of Education Virtual Teaching and Research Office for the Data Science Course Group; Review expert for the National Natural Science Foundation of China, national key R&D programmes, and science and technology awards.

Honours and Awards

- National-level Teaching Master, Leading Professional under the National Special Support Programme for High-Level Talent, also known as the 10,000 Talent Programme, Expert receiving the Special Government Allowance of the State Council and New Century Excellent Talent (Ministry of Education);
- First Prize under the Guangdong Provincial Science and Technology Award, Second Prize under the Scientific and Technological Progress Award of the Ministry of Education, Second Prize under the National Teaching Achievement Award and First Prize under the Guangdong Provincial Teaching Achievement Award;
- Ding Ying Science and Technology Award, Baosteel Education Award and CCF Outstanding

Contribution Award.

Research Achievements

Publications

Selected recent publications are as follows:

[1] Junwei Cheng, Chaobo He*, Pengxing Feng, Weixiong Liu, Kunlin Han, Yong Tang*. Community-Aware Variational Autoencoder for Continuous Dynamic Networks.

The 39th AAAI Conf. on Artificial Intelligence (AAAI'25, CCF Category A), Philadelphia, USA, Feb. 25-March 4, 2025

[2] Junwei Cheng, Yong Tang*, Chaobo He, Pengxing Feng, Kunlin Han, Quanlong Guan. Rethinking Variational Bayes in Community Detection from Graph Signal Perspective.

IEEE Transactions on Knowledge and Data Engineering (TKDE), 37(5): 2903-2917 (2025), DOI: 10.1109/TKDE.2025.3543378

[3] Siguo Fang, Dong Huang*, Xiaosha Cai, Changdong Wang, Chaobo He, Yong Tang. Efficient Multi-View Clustering via Unified and Discrete Bipartite Graph Learning.

IEEE Transactions on Neural Networks and Learning Systems (2021 IF=14.255, CAS Journal Ranking, Q 1), vol. 35, no. 8, pp. 11436-11447, Aug. 2024, doi: 10.1109/TNNLS.2023.3261460.

[4] Ling Huang, Ye Zhu, Yuefang Gao*, Tuo Liu, Chao Chang, Caixing Liu, Yong Tang*, Chang-Dong Wang. Hybrid-Order Anomaly Detection on Attributed Networks.

IEEE Transactions on Knowledge and Data Engineering, Vol. 35, No. 12, pp. 12249-12263, Dec. 2023 [CCF A, 2022 IF=8.9, CAS Journal Ranking, Q 2]

[5] Chao Chang, Yong Tang*, Yongxu Long, Kun Hu, Ying Li, Jianguo Li, Chang-Dong Wang. Multi-information Preprocessing Event Extraction with BiLSTM-CRF Attention for Academic Knowledge Graph Construction.

IEEE Transactions on Computational Social Systems (2021 IF=4.747, CAS Journal Ranking, Q

2, JCR Q2), Vol. 10, No. 5, pp. 2713-2724, Oct., 2023

Research Projects Undertaken by Dr Tang Yong as Principal Investigator or Participant

[1] Organisation Department of the CPC Central Committee/Ministry of Education (114-37425005). Ninth Batch of the National Special Support Programme for High-Level Talent. Oct 2024 – Oct 2034. Principal Investigator.

[2] General Programme of the Natural Science Foundation of Guangdong Province (2024A1515011758). Research on Dynamic Attributed Graph Link Prediction Methods Based on Deep Clustering. Jan 2024 – Dec 2026. Participant.

[3] Department of Education of Guangdong Province (Y.G.J.H. [2023] No. 33). Large-Scale Database Technology and Applications, a First-Class Blended Course. Dec 2023 – Dec 2028. Ranked 2nd.

[4] Department of Education of Guangdong Province (Y.G.J.H. [2023] No. 33). Principles of Database Systems, a First-Class Blended Course. Dec 2023 – Dec 2028. Ranked 2nd.

[5] Industry-commissioned Research Project (SCHOLAT202302). “AiScholar” Academic Conference Column Service. Nov 2023 – Oct 2024. Co-Principal Investigator.

[6] Research Task under the National Key R&D Programme of China (2023YFC3341204). Whole-process Teaching and Learning Evaluation and Multi-scenario Personalised Learning Services. Oct 2023 – Oct 2026. Principal Investigator.

[7] Guangzhou Science and Technology Plan Project (2023B04J0002). Research and Application of Key Technologies for Big Data-based Intelligent Campus Situational Awareness. Apr 2023 – Mar 2026. Principal Investigator for the Participating Institution.

[8] Open-call Project for “Teaching Masters” under the Guangdong Special Support Programme (202225). Design and Application of a Satisfaction Monitoring Mechanism for Undergraduate Education in Regular Higher Education Institutions. Oct 2022 – Oct 2025. Principal Investigator.

Conferences and Invited Talks

[1] Invited Talk: Research and Practice on the Data Foundation for Education Empowered by Large Models. 2026 Annual Conference of the Ministry of Education Virtual Teaching and Research Office for Database Courses, hosted by Renmin University of China. Theme: Database Education Empowered by Large Models: Opportunities and Risk Responses. School of Artificial Intelligence, Sun Yat-sen University, Zhuhai, 25 Apr 2026.

[2] Invited Talk: SCHOLAT + Digital and Intelligent Academic Service Platform for Universities. The 17th Guangdong IT Higher Education Deans' Club Event and "AI + N = ∞ + Multi-domain Integration and Transformation of IT Education in Greater Bay Area Universities" Seminar. Zhuhai, 26 Mar 2026.

[3] Invited Talk: SCHOLAT Data Foundation, Scholar Large Model and Application Ecosystem. Academic report at the 2025 Academic Committee Meeting of Guangxi Key Laboratory of Human-Computer Interaction and Intelligent Decision-Making, 17 Jan 2026.

[4] Invited Talk: Digital Scholar Agent and Application Ecosystem Based on SCHOLAT, 2026 International Conference on Artificial Intelligence and Social Network Systems (WICNS), Jiangmen, China, 11 Jan 2026.

[5] Invited Talk: SCHOLAT Data Foundation and Intelligent Models for Multi-source Knowledge Fusion. Forum on New Technologies and Open-source Software for Multi-source Data Fusion, ChinaData 2025, 13 Dec 2025.

[6] Invited Talk: SCHOLAT Data and Knowledge Foundation Empowering the Digital and Intelligent Transformation of Universities. ChineseCSCW 2025: The 6th Collaborative Intelligence Big Data Competition and Smart Education Forum, and the 7th Smart Education Forum of the CCF Guangzhou Pearl River Forum, 8 Dec 2025.

[7] Invited Talk: How to Use SCHOLAT to Support Academic Exchange and the Development of Professional Committees. Annual Conference of the Professional Committee on Databases of the Computer Academy of Guangdong and CCF at South China University of Technology (CCF Guangzhou, CCF Professional Committee on Databases, CCF Professional Committee on Big Data, the Professional Committee on Databases of the Computer Academy of Guangdong, and South China University of Technology), 6 Dec 2025.

[8] Invited Talk: SCHOLAT Data and Knowledge Foundation Empowering the Digital and Intelligent Transformation of Universities. Lecture Series on *Enhancing Engineering Literacy for New Engineering Talent*, Xingzhi College, South China Normal University, and the CCF into Universities Series, 4 Dec 2025.

[9] Invited Talk: Scholar Data Intelligence and Large Language Model Applications based on SCHOLAT, The Second International Workshop on Educational Artificial Intelligence (IWEAI 2025, co-located with the PRICAI 2025), Wellington, New Zealand, 18 Nov 2025.

[10] Invited Talk: SCHOLAT Data and Knowledge Foundation Empowering the Digital and Intelligent Transformation of Universities. Northwest A&F University, 3 Nov 2025.

Patent Application

[1] Granted invention patent (ZL201811395351.1). Personalised Recommendation Method and System Integrating Implicit Feedback and Users' Social Status. Sep 2023. Inventors: Tang Yong, Wang Liu, Tang Feiyi, Yang Zuoxi, He Yi, Li Ying and Mao Chengjie.

[2] Granted invention patent (ZL202310272752.2). Incremental Update Method, Apparatus, Device, Medium and Product for an In-memory Storage System. Aug 2023. Inventors: Tang Yong, Chen Wande, Yuan Chengzhe, Tang Feiyi, Lin Ronghua and Mao Chengjie.

[3] Granted invention patent (ZL202110460559.2). Community Detection Method, System, Apparatus and Storage Medium Based on Attribute Fusion. Jul 2023. Inventors: Tang Yong, Xu Qing, Lin Ronghua, Chen Wande, Mao Chengjie, Zhang Nini and Gu Wenjing.

[4] Granted invention patent (ZL202010041900.6). Deep Learning-based Team Recommendation Method, System and Storage Medium. Apr 2023. Inventors: Tang Yong, Lin Jihong, Lin Ronghua, Mao Chengjie, Chang Chao and Li Weisheng.

[5] Granted invention patent (ZL201811450010X). Academic Social Network Friend Recommendation Method, System and Storage Medium. Dec 2022. Inventors: Tang Yong, Mao Chengjie, Fu Chengzhou, Yang Zuoxi and Wang Liu.

[6] Granted invention patent (ZL201710395534.2). Method and System for Accurate Academic

Paper Retrieval Based on Temporal Reasoning. Aug 2021. Inventors: Tang Yong, Zhu Dingju and Mao Chengjie.

e) Textbook and Publications

[1] *openGauss Database Laboratory Guide*, Tsinghua University Press, Mar 2026. Authors: Tang Na, Li Jingjing, Tang Yong, Feng Yuhua, Zhang Qizhi, Li Jianguo and Yan Qihua.

[2] *Database Systems Laboratory Guide, 3rd Edition*, a National Textbook under the 11th Five-Year Plan, Tsinghua University Press, Mar 2024. Editor-in-Chief: Tang Na; Associate Editor-in-Chief: Li Jingjing; Authors: Tang Deyou, Yang Atao, Li Pu and Tang Yong.

[3] *Collaborative Governance in an Intelligent Society: Research Status and Development Trends*, in *China Computer Science and Technology Development Report 2021–2022*, CCF e-Publishing, May 2023. Authors: Lv Peng, Lu Tun, Zhang Peng, Jiang Yichuan, Tang Yong and Gu Ning.

[4] Human Centered Computing 7th International Conference, HCC 2021 Revised Selected Papers, Lecture Notes in Computer Science (LNCS) 13795, Springer, Dec 2022. Editors: Zu Qiaohong, Tang Yong, et al.

[5] Emerging Technologies for Education (SETE 2021), Lecture Notes in Computer Science (LNCS) 13089, Springer, Jan 2022. Editors: Jia Weijia, Tang Yong, et al.