



The Eighth International Symposium on Applied Fractional Calculus

July 6, 2024

Beijing Jiaotong University, China



Sponsor: Technical Committee on Fractional Order System and
Control of Chinese Association of Automation

Organizer: Beijing Jiaotong University



The Eighth International Symposium on Applied Fractional Calculus

Beijing Jiaotong University, Beijing, China (July 6, 2024)

The International Symposium on Applied Fractional Calculus was established in 2016. It mainly discusses the theory and application of fractional calculus, which is of great significance for promoting the practical optimization, control, and mechanics problems.

In 2024, the 8th International Symposium on Applied Fractional Calculus will be held in Beijing Jiaotong University and discussed by experts, scholars, and graduate students from many research institutes and universities. It is sponsored by Technical Committee on Fractional Order System and Control of Chinese Association of Automation and organized by Beijing Jiaotong University.

Program Committee

- Prof. Yongguang Yu (Beijing Jiaotong University, Beijing, China)
- Prof. YangQuan Chen (University of California, Merced)

Organizing Committee

- Dr. Guojian Ren (Beijing Jiaotong University, Beijing, China)
- Dr. Wei Hu (Beijing Jiaotong University, Beijing, China)
- Dr. Xiangyun Meng (Beijing Jiaotong University, Beijing, China)
- Dr. Wei Su (Beijing Jiaotong University, Beijing, China)
- Dr. Xiaojing Wang (Beijing Jiaotong University, Beijing, China)
- Dr. Jiahui Feng (Beijing Jiaotong University, Beijing, China)
- Dr. Yibing Cui (Beijing Jiaotong University, Beijing, China)

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Beijing Jiaotong University

Virtual Conference Announcement

The 8th International Symposium on Applied Fractional Calculus will be held both online and offline. It provides **VooV Meeting** to online participators.

Meeting Topic: Application of fractional calculus, parallel worldviews and complexity science

Meeting Time: 2024/07/06 08:00-18:30 (UTC/GMT+08:00) China Standard Time - Beijing

Meeting ID: 261-819-014

Live Stream URL:

<https://meeting.tencent.com/dw/FsrQryyqiSvu>

Conference Program				
2024, July 6				
Tencent Meeting ID: 261-819-014				
08:25-08:40 (UTC/GMT +8.00)	Opening Ceremony			Host
				YangQuan Chen Yong Wang Yongguang Yu
Time	Chair	Reporter	School	Title
08:40-09:15 (UTC/GMT +8.00)	YangQuan Chen	Bruce J.West (online)	North Carolina State University	Crucial Event Rehabilitation Therapy (CERT)
09:15-09:50 (UTC/GMT +8.00)	Yongguang Yu	YangQuan Chen	University of California Merced	Irrational Filtering – What, Why and How?
09:50-10:10 (UTC/GMT +8.00)	Tea Break			
10:10-10:45 (UTC/GMT +8.00)	Xiangyun Meng	Qiumei Huang	Beijing University Of Technology	Non-traditional Jacobi Spectral-Collocation Method for Weakly Singular Integral Equations of the Second Kind
10:45-11:20 (UTC/GMT +8.00)	Xiaojing Wang	Cheng Hu	Xinjiang University	限时稳定性的停息时间优化 与抖振抑制
11:20-11:45 (UTC/GMT +8.00)	Wei Hu	Jiahui Feng	Beijing Jiaotong University	Mean Hyperbolicity and Admissibility for Non-autonomous Dynamic Systems
11:45-14:10 (UTC/GMT +8.00)	Lunch			

14:10-14:45 (UTC/GMT +8.00)	Yongguang Yu	Yonggui Kao	Harbin Institute of Technology	Global Mittag-Leffler Stability For a Coupled System of Fractional-order Differential Equations on Network Without Strong Connectedness
14:45-15:20 (UTC/GMT +8.00)	YangQuan Chen	Rachid Malti (online)	Université de Bordeaux	A Unified Framework for Exponential Stability Analysis of Linear (Irrational) Systems in the Parametric Space using Guaranteed Methods from Interval Arithmetics.
15:20-15:30 (UTC/GMT +8.00)	Tea Break			
15:30-16:05 (UTC/GMT +8.00)	Yibing Cui	Liping Chen	Hefei University of Technology	基于分数阶观测器的动力锂电池荷电状态估计
16:05-16:40 (UTC/GMT +8.00)	Wei Su	Ying Luo	South China University of Technology	分数阶运动系统与控制
16:40-17:15 (UTC/GMT +8.00)	Guojian Ren	Yuquan chen	Hohai University	分数阶梯度下降法设计与分析的一般性理论框架
17:15-17:40 (UTC/GMT +8.00)	Hu Wang	Conghui Xu	University of Science and Technology Beijing	分数阶传染病模型的动力学分析与最优控制研究
17:40-17:50 (UTC/GMT +8.00)	Closing Ceremony			