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A Letter from the Organizing Committee

Dear participants,

We welcome you to participate in the 30th International Conference on Difference Equations and Applications (ICDEA 2025), scheduled to take place from July 15 to 19, 2025, in Guangzhou, China. The conference will be held at the Ramada By Wyndham, located at the center of Guangzhou.

The annual ICDEA, organized by the International Society of Difference Equations (ISDE), is a prestigious event that brings together researchers and scientists from around the world. The conference aims to foster the presentation, discussion, and exploration of solutions in the fields of Difference Equations, Discrete Dynamical Systems, and their applications in various disciplines, including mathematical biology, epidemiology, evolutionary game theory, economics, physics, and engineering. ICDEA 2025 is organized by ISDE and Guangzhou University, funded by the National Natural Science Foundation of China (NSFC).

Furthermore, we are pleased to announce that we anticipate the active participation of over 300 attendees, in-person or online, at the conference. The talks will be presented through Regular Sessions and Special Sessions, covering a diverse range of research topics. Additionally, we have 13 esteemed Plenary Speakers who will delve into both theoretical aspects and practical applications in mathematical modeling.

We wholeheartedly look forward to your presence at ICDEA 2025 as we embark on a fruitful and enlightening conference.

Best regards,

Bo Zheng (Chair), Jianshe Yu (Co-chair)





A Letter from the President of ISDE

Dear Colleagues,

It is my great pleasure to present the book of abstracts of the talks for the International Conference on Difference Equations and Applications (ICDEA 2025). On behalf of the International Society of Difference Equations (ISDE), I extend my warmest greetings to all the distinguished researchers, academics, and professionals who have contributed to this remarkable compilation of cutting-edge research.

This book showcases the depth and variety of scientific content in the talks at ICDEA 2025. The abstracts highlight diverse studies, analyses, and results from researchers exploring difference equations, discrete dynamical systems, and their applications in fields such as biology, economics, physics, and engineering.

The abstracts within this volume cover a wide range of topics, encapsulating the multifaceted nature of the conference. They encompass the fundamental aspects of difference equations and discrete dynamical systems, their mathematical properties, and the novel methodologies developed to analyze and understand their behavior.

I would like to extend my deepest gratitude to the contributors whose research is showcased in this book. Your dedication, expertise, and commitment to excellence have not only enriched this conference but have also advanced the collective understanding of difference equations and discrete dynamical systems. Your abstracts serve as a source of inspiration and a catalyst for further exploration in these dynamic fields.

I would also like to express my heartfelt appreciation to the members of the organizing committee for their tireless efforts in ensuring the success of the conference and the compilation of this book. Their diligence, attention to detail, and passion for knowledge have been instrumental in bringing together such a diverse and exceptional collection of abstracts.

As you peruse the pages of this book, I encourage you to embrace the spirit of collaboration, innovation, and intellectual curiosity that underpin the conference. Let these abstracts serve as catalysts for new ideas, fruitful discussions, and interdisciplinary collaborations. May they inspire researchers, educators, and practitioners alike to further explore the fascinating world of difference equations, discrete dynamical systems, and their applications to economics, science, and engineering.

Once again, I extend my warmest appreciation to all those who have contributed to this book of abstracts. Your work and dedication are vital in shaping the future of our society, and it is an honor to have you as part of our esteemed community.

With sincere gratitude and best wishes

Professor Laura Gardini

ISDE President



About ICDEA History

The previous conferences on Difference Equations and Applications were held in:

- 29th, 24--28 June 2024, Paris, France
- 28th, 17--21 July 2023, Phitsanulok, Thailand
- 27th, Paris-Saclay, France, 18--22 July 2022
- 26th, Sarajevo, Bosnia and Herzegovina, July 26--30, 2021
- 25th, London, UK, June 24--28, 2019
- 24th, Dresden, Germany, May 21--25, 2018
- 23rd, Timisoara, Romania, July 24--28, 2017
- 22nd, Osaka, Japan, July 24--29, 2016
- 21st, Bialystok, Poland, July 19--25, 2015
- 20th, Wuhan, Hubei, China, July 21--25, 2014
- 19th, Muscat, Oman, May 26--30, 2013
- 18th, Barcelona, Spain, July 24--29, 2012
- 17th, Trois-Rivières, Quebec, Canada, July 24--29, 2011
- 16th, Riga, Latvia, July 19--23, 2010
- 15th, Estoril, Portugal, October 19--23, 2009
- 14th, Istanbul, Turkey, July 21--25, 2008
- 12th, Lisbon, Portugal, July 23--27, 2007
- 11th, Kyoto, Japan, July 24--28, 2006
- 10th, Münich, Germany, July 25--30, 2005
- 9th, Los Angeles, California, USA, August 2--6, 2004
- 8th, Brno, Czech Republic, July 28--August 1, 2003
- 7th, Changsha, China, August 12--17, 2002
- 6th, Augsburg, Germany, July 20--August 3, 2001
- 5th, Temuco, Chile, January 2--7, 2000
- 4th, Poznan, Poland, August 27--31, 1998
- 3rd, Taipei, Taiwan, 1997
- 2nd, Veszprém, Hungary, 1995
- 1st, San Antonio, Texas, USA, 1994



Conference Committees

Local Organizing Committee from Guangzhou University

Bo Zheng (Chair) Jianshe Yu (Co-chair)

Dingyong Bai	Hongpeng Guo	Zhiming Guo	Linchao Hu	Feng Jiao	Chunming Ju
Jia Li	Yijie Li	Genghong Lin	Yunfeng Liu	Zhigang Liu	Yuhua Long
Qiwen Sun	Kai Wang	Huafeng Xiao	Hong Zhang	Hongling Zhou	Zhan Zhou

Scientific Committee

Chair

Jim Michael Cushing, University of Arizona, Tucson, Arizona

Members

- René Lozi, University Côte d'Azur, Nice, France
- Adina Luminita Sasu, West University of Timisoara, Timisoara, Romania
- Iryna Sushko, National Academy of Sciences of Ukraine, Kyiv, Ukraine
- Bo Zheng, Guangzhou University, Guangzhou, China

Sponsors

International Society of Difference Equations (ISDE)





Dining Notice

Date	Meal	Location
	Lunch 12:00-14:30	1F California Cafe (Buffet)
July 14	Dinner 18:00-21:30	1F California Cafe (Buffet)
	Breakfast 06:00-10:30	1F California Cafe (Buffet)
July 15	Lunch 11:30-13:30	2F Regal Gallery (Boxed Meal)
	Dinner 18:00 start	2F Regal Gallery (Banquet)
	Breakfast 06:00-10:30	1F California Cafe (Buffet)
July 16-18	Lunch 11:30-13:30	2F Regal Gallery (Boxed Meal)
	Dinner 18:00-21:30	1F California Cafe (Buffet)
	Breakfast 06:30-10:30	1F California Cafe (Buffet)
July 19	Lunch 12:00-13:30	2F Regal Gallery (Boxed Meal)



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Conference Service Guide

I. Conference Hotel

Ramada Pearl Hotel Guangzhou (No.9 Mingyue 1st Road, Middle of Guangzhou Avenue, Yuexiu District, Guangzhou, Guangdong)

1. Hotel Service Information

• Hotel Operator:

020-86007566 (for Chinese guests) 008620-8600 9099 (for non-Chinese guests)

- Wifi Account: RAMADA
- Password:

Verified by mobile number (for Chinese guests) Inquire at the front desk (for non-Chinese guests)

2. Services

24-Hour reception service	Baggage storage service	Concierge service
Concierge service	Currency exchange	Dry cleaning
Express check-in service	Free parking	Ironing service
Laundry service	Pick-up service	Postal service
Room service	Taxi calling service	Travel ticket service
Wake-up calls		

3. Facilities

Administration	ATM banking
Chinese restaurant	Closed circuit television
Coffee house	Gift gallery
Meeting facilities	Non-smoking floor
Resting area	Safe-deposit boxes at front desk
Restaurant	Western restaurant

Business center Commodity department Lobby bar Non-smoking hotel

4. Entertainments

Billiard room	Fitness center	Ping-pong room
Sauna	Squash court	Swimming pool

II. Hotel Transportation Options

1. From Guangzhou Baiyun International Airport

• Metro route (Approx. 1 hour):

Take Metro Line 3 (towards Tiyu Xilu) \rightarrow Tiyu Xilu Station (13 stops) Transfer to Metro Line 3 (towards Haibang) \rightarrow Zhujiang New Town Station (1 stop) Transfer to Metro Line 5 (towards Jiaokou) \rightarrow Wuyangcun Station (1 stop, Exit A) Walk about 11 minutes to the hotel



• Taxi route (Approx. 1 hour):

Estimated cost: about 100 RMB (App estimate; on-site taxi may cost 2–3 times more)

2. From Guangzhou Railway Station

• Metro route (Approx. 31 minutes):

Take Metro Line 5 (towards Huangpu Xingang) \rightarrow Wuyangcun Station (13 stops, Exit A) Walk about 11 minutes to the hotel

• Taxi route (Approx. 22 minutes):

Estimated cost: about 16 RMB (App estimate; on-site taxi may cost 2–3 times more)

3. From Guangzhou East Railway Station

• Metro route (Approx. 40 minutes):

Take Metro Line 1 (towards Xilang) → Yangji Station (3 stops)

Transfer to Metro Line 5 (towards Huangpu Xingang) \rightarrow Wuyangcun Station (1 stop, Exit A) Walk about 11 minutes to the hotel

• Taxi route (Approx. 20 minutes):

Estimated cost: about 20 RMB (App estimate; on-site taxi may cost 2–3 times more)

4. From Guangzhou South Railway Station

• Metro route (Approx. 1 hour):

Take Metro Line 2 (towards Jiahe Wanggang) \rightarrow Dongxiaonan Station (6 stops) Transfer to Metro Line 10 (towards Yangjidong) \rightarrow Wuyangcun Station (1 stop, Exit A) Walk about 11 minutes to the hotel.

• Taxi route (Approx. 35 minutes):

Estimated cost: about 50 RMB (App estimate; on-site taxi may cost 2–3 times more)

5. From Guangzhou North Railway Station

• Metro route (Approx. 1 hour 39 minutes):

Take Metro Line 9 (towards Gaozeng) → Gaozeng Station (7 stops) Transfer to Metro Line 3 (towards Tiyu Xilu) → Tiyu Xilu Station (12 stops) Transfer to Metro Line 3 (towards Haibang) → Zhujiang New Town Station (1 stop) Transfer to Metro Line 5 (towards Jiaokou) → Wuyangcun Station (1 stop, Exit A) Walk about 11 minutes to the hotel

• Taxi route (Approx. 59 minutes):

Estimated cost: about 60 RMB (App estimate; on-site taxi may cost 2–3 times more)





III. Hotel Floor Plan









The 30th International Conference on Difference Equations and Applications

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IV. Weather Information

Date	Weather	Temperature
July 14	Thundershower	27°C-33°C
July 15	Light rain	28°C-35°C
July 16	Cloudy	28°C-35°C
July 17	Light rain	27°C-33°C
July 18	Light rain	27°C-31°C
July 19	Light rain	25°C-32°C
July 20	Partly Cloudy	26°C-32°C





For Online Paticipant

Kai Xuan Conference Room	Meeting Link: <u>https://us06web.zoom.us/j/81542414535?pwd=aBNNAllgmhlREYuU0wGwxUSiAYa99B.1</u> Meeting ID: 815 4241 4535 Passcode: ICDEA-1
Kai Xuan 2	Meeting Link: <u>https://us06web.zoom.us/j/85850566060?pwd=gaLBdb9uoKQmVpupI24KaR30NraIT6.1</u> Meeting ID: 858 5056 6060 Passcode: ICDEA-2
Zhu Jiang 2	Meeting Link: <u>https://us06web.zoom.us/j/89064793302?pwd=XFjhEDFAl4A9pnb24Ohctgysa8caQl.1</u> Meeting ID: 890 6479 3302 Passcode: ICDEA-3
Zhu Jiang 3	Meeting Link: <u>https://us06web.zoom.us/j/81163424698?pwd=4PV2IDeH3EWaXWSRUtdoYnRcfKiCPE.1</u> Meeting ID: 811 6342 4698 Passcode: ICDEA-4
Kai Xuan 7	Meeting Link: <u>https://us06web.zoom.us/j/88206008440?pwd=TMS7ExXB6sMdbTuCODWKyiY23sZ6tJ.1</u> Meeting ID: 882 0600 8440 Passcode: ICDEA-5
Kai Xuan 8	Meeting Link: <u>https://us06web.zoom.us/j/83872293087?pwd=ipJztTVViVcnaa6UI8E2QYDzGSS8QB.1</u> Meeting ID: 838 7229 3087 Passcode: ICDEA-6
ICDEA2025-Test	Meeting Link: https://us06web.zoom.us/j/9297855720?pwd=j1tSZnUA2zx2njhKdbwk3t3ZIKdGAv.1&omn=88900981849 Meeting ID: 929 785 5720 Passcode: ICDEA2025

Friendly Reminder

We will conduct a Zoom equipment test for each meeting room from **19:00 to 20:00** (Beijing Time) **on July 13**. All participants are welcome to join. If this time is not convenient for you, we will also conduct **20-minute tests daily** during the conference at the following times.

- 1. Morning: 08:10 (Beijing Time) from July 15 to July 19.
- 2. Afternoon: 13:10 (Beijing Time) from July 15 to July 18.



Tuesday 15 July

08:30-09:30 Opening Ceremony & Group Photo			
09:30-09:50	Coffee Break		Kaixuan
09:50-10:40	Saber Elaydi (Chair: René Lozi)		Conference
Ti	tle: A journey into multiple attractors		Room
10:40-11:30			(3F)
	8 ()		
	le: Fingerprints' of wild chaos		
11:30-13:30		[Regal Gallery (2F)
Kaixuan Conference Room (3F)	Kaixuan 2 (3F)	Zhujia	ing 2 (3F)
Chair: Bernd Krauskopf and	Chair: Sanyi Tang, Yuanshun Tan and	Chains	Daama Ma
Hinke Osinga	Xianghong Zhang SS12: The application of difference		Ruyun Ma opological methods in
SS1: Geometry of and dynamics on	equations in impulsive dynamical		ry value problems
complicated invariant sets	systems	13:30-13:55	Zhiming Guo
13:30-13:55Indranil Ghosh (Online)13:55-14:20Sanaz Amani	13:30-13:55 Sanyi Tang	13:55-14:20	Jian Fang
13:55-14:20 Sanaz Amani 14:20-14:45 Katsutoshi Shinohara	13:55-14:20 Changcheng Xiang	14:20-14:45	Huaqing Sun
14:45-15:10 Sam Doak	14:20-14:45 Xianghong Zhang	14:45-15:10	Chenghua Gao
15:10-15:35 Bernd Krauskopf	14:45-15:10 Zhongcai Zhu	15:10-15:35	Feng Xiong
	15:10-15:35 Qianqian Zhang		0 (21)
Zhujiang 3 (3F)	Kaixuan 7 (3F)	Kaixu	an 8 (3F)
Chair: Xiulan Lai, Wanbiao Ma and Xiaotian Wu	Chair: Shanshan Chen, Shuang Liu,		ang, Lihong Huang,
SS8: Advances in difference and/or	Yuan Lou and Linlin Su	0 0 0	Zengyun Wang and
differential equations modeling of	SS9: Theory and applications of patch		n Duan
biomedical systems: from molecular	models		ces in nonsmooth
mechanisms to clinical applications	13:30-13:55 Fang Li	dynami 13:30-13:55	cal systems Xilin Fu
13:30-13:55 Xiaoqiang Sun	13:55-14:20 Peng Zhou	13:55-14:20	Lingling Zhang
13:55-14:20 Wei Wang	14:20-14:45 Lei Zhang	14:20-14:45	Zengyun Wang
14:20-14:45 Shizhao Ma	14:45-15:10 Hao Kang	14:45-15:10	Lian Duan
14:45-15:10 Yi Zhao 15:10-15:35 Yuxin Zhang	15:10-15:35 Shuang Liu	15:10-15:35	Ting Chen
	15:35-15:55 Coffee Break		
Kaixuan Conference Room (3F)	Kaixuan 2 (3F)	Zhuiis	ung 2 (3F)
		211031	ing 2 (01)
Chair: Bernd Krauskopf and Hinke Osinga			
SS1: Geometry of and dynamics on	Chair: Jifa Jiang, Zhipeng Qiu and		
complicated invariant sets	Dun Zhou		Xiaoyue Li
15:55-16:20 Yancong Xu	SS14: Stochastic perturbations in difference/differential equations and	• 1	behaviors of discrete
Chair: Shaofen Zou, Wenjie Li and Shigin Ou	difference/differential equations and multiscale dynamics	dynami 15:55-16:20	cal systems Dingshi Li
SS38: Investigation on dynamics of	15:55-16:20 Jifa Jiang	16:20-16:45	Lei Li
neural network models and epidemic	16:20-16:45 Xiaopeng Chen	16:45-17:10	Xiaoyue Li
models	16:45-17:10 Zhipeng Qiu	17:10-17:35	Zhongwei Liao
16:20-16:45 Yanyu Xiao 16:45-17:10 Wenjie Li	17:10-17:35 Xi Sheng	17:35-18:00	Fengying Wei
16:45-17:10 Wenjie Li 17:10-17:35 Shiqin Ou	17:35-18:00		
17:35-18:00 Ruiqiang Zhuo			
Zhujiang 3 (3F)	Kaixuan 7 (3F)	Kaixu	an 8 (3F)
Chair: Chuncheng Wang, Weihua Jiang	Chair: Shanshan Chen, Shuang Liu,	Chair: N	Iingkang Ni
and Junjie Wei	Yuan Lou and Linlin Su		ons and dynamics of
SS16: Difference equation with continuous time and its applications	SS9: Theory and applications of patch models	multi-scale dy	namical systems
15:55-16:20 Weihua Jiang	15:55-16:20 Junyuan Yang	15:55-16:20	Jianhe Shen
16:20-16:45 Chuncheng Wang	16:20-16:45 Huicong Li	16:20-16:45	Yuhua Cai
16:45-17:10 Xun Cao	16:45-17:10 Wei Gou	16:45-17:10	Xiao Wu Zhanghang Li
17:10-17:35 Yifei Li	17:10-17:35 Hua Zhang	17:10-17:35 17:35-18:00	Zhengkang Li Zirui Zhu
17:35-18:00 Yingli Pan	17:35-18:00 Shanshan Chen	17.55-10.00	





Wednesday 16 July

00 20 00 20		• ``		
08:30-09:20 Title: Applied symb	Wei-Mou Zheng (Chair: Miguel AF Sa polic dynamics: from 1D to 2D to ODE	njuan)		
09:30-10:20				
	Kaixuan			
Title: From delay-independ	•			
	oretic tools for time-delay systems	Room (3F)		
10:20-10:40	Coffee Break			
10:40-11:30	Weinian Zhang (Chair: Adina Luminit	ta Sasu)		
	le: Iteration is eraser			
11:30-13:30	Lunch	Regal Gallery (2F)		
Kaixuan Conference Room (3F)	Kaixuan 2 (3F)	Zhujiang 2 (3F)		
Chair: Meng Fan, Ming Chen	Chair: Adina Luminița Sasu and	Chair: Zhijun Liu and Lianwen Wang		
and Xin Zhao	Weinian Zhang	SS29: Stability and bifurcation analysis		
SS2: Advances in discrete dynamical	SS5: Asymptotic behaviors of difference	of epidemic/species models		
systems for ecological modeling	equations and applications	13:30-13:55 Lianwen Wang		
13:30-13:55 Qihua Huang 13:55-14:20 Maoxing Liu	13:30-13:55 Alvaro Castaneda (Online) 13:55-14:20 Adina Luminita Sasu	13:55-14:20 Qian Jiang		
14:20-14:45 Maksude Keleş Denk	14:20-14:45 Wenmeng Zhang	14:20-14:45 Yong Yao		
14:45-15:10 Yufeng Wang	14:45-15:10 Yonghui Xia	14:45-15:10 Jing Hu		
15:10-15:35 Nurul Huda Gazi (Online)	15:10-15:35 Linfeng Zhou	15:10-15:35 Valery Gaiko		
Zhujiang 3 (3F)	Kaixuan 7 (3F)	Kaixuan 8 (3F)		
		Chair: Shijie Zhou		
Chair: Xianyi Li, Xiaoling Han,	Chair: Xiaofeng Luo, Yi Wang,	SS33: Advances in numerical solutions		
Mingshu Peng, Zunxian Li and Jie Liu	Lili Chang and Yongxin Zhang	for differential and difference equations:		
SS19: Stability and bifurcation	SS34: Population dynamics in	bridging theory, computation, and		
problems in discrete dynamical systems 13:30-13:55 Hongxu Li	networked reaction-diffusion systems	multiscale applications		
13:30-13:55 Hongxu Li 13:55-14:20 Xiaoling Han	13:30-13:55 Yi Wang 13:55-14:20 Shupeng Gao	13:30-13:55 Kele Sun		
14:20-14:45 Mingshu Peng	14:20-14:45 Xiaofeng Luo	13:55-14:20 He Ma		
14:45-15:10 Xianyi Li	14:45-15:10 Jing Li	14:20-14:45 Zhaonan Luo		
15:10-15:35	15:10-15:35 Yongxin Zhang	14:45-15:10 Xinyu Cheng		
	5 5	15:10-15:35 Jichen Yang		
Voimer Conference Deere (2E)	15:35-15:55 Coffee Break			
		Zhujiang 2 (3F)		
Chair: Jiangong You and Qi Zhou	Chair: Adina Luminița Sasu and	Chair: Shugui Kang and Guang Zhang		
SS27: Spectral theory of quasiperiodic	Weinian Zhang	SS10: Quantitative modeling and		
Schrödinger operator	SS5: Asymptotic behaviors of difference	analysis for discrete dynamical systems:		
15:55-16:20 Disheng Xu	equations and applications	theoretical and empirical approaches		
16:20-16:45 Yunfeng Shi	15:55-16:20 Jiyu Zhong	15:55-16:20 Furi Guo		
16:45-17:10 Jing Wang	16:20-16:45 Xiao Tang	16:20-16:45 Shuyun Jiao		
17:10-17:35 Ao Cai	16:45-17:10 Laurian Suciu (Online)	16:45-17:10 Shugui Kang		
17:35-18:00 Hongyi Cao	17:10-17:35 Ana Siriantu (Online)	17:10-17:35 Guang Zhang		
Thutter = 2 (2E)	17:35-18:00 Abdelrahim Mousa (2)	17:35-18:00 Changjian Wu (Online)		
Zhujiang 3 (3F)	Kaixuan 7 (3F)	Kaixuan 8 (3F) Chair: Shijie Zhou		
		SS33: Advances in numerical solutions		
		for differential and difference equations:		
Chair: Fangfang Liao	Chair: Xiaofeng Luo, Yi Wang,	bridging theory, computation, and		
SS30: Open challenges and future	Lili Chang and Yongxin Zhang	multiscale applications		
directions of research in dynamical	SS34: Population dynamics in networked	15:55-16:20 Ying Wang		
systems	reaction-diffusion systems	Chair: Jinzhi Lei, Yunfei Lv,		
15:55-16:20 Fangfang Liao	15:55-16:20 Hongtao Zhang	Qihua Huang and Lai Zhang		
16:20-16:45 Laadjal Baya (Online)	16:20-16:45 Xiaojie Jing	SS28: Theory and applications of		
16:45-17:10 Yanshan Chen	16:45-17:10 Inessa Matveeva	periodic and size-structured		
17:10-17:35 Chenxi Jiang	17:10-17:35 Gennadii Demidenko	difference/differential equation models		
17:35-18:00 Hua Kong	17:35-18:00 Hiba Zabat	16:20-16:45 Ruiwen Wu		
		16:45-17:10 Fuxiang Li		
		17:10-17:35 Jiawei Huo 17:35-18:00		

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Thursday 17 July

08:30-09:20	Galina Strelkova (Chair: Chuangxia H	uang)	
Title: Noise-controlled spatio-			
09:30-10:20	Conference		
10:20-10:40	Room		
10:40-11:30	Xu Zhang (Chair: Qigui Yang)	(3F)	
-	s with infinitely many Smale horseshoes		
11:30-13:30	Lunch	Regal Gallery (2F)	
Kaixuan Conference Room (3F)	Kaixuan 2 (3F)	Zhujiang 2 (3F)	
Chair: Dongmei Xiao and Zhaoquan Xu	Chair: Yu Zhao, Shi Zhao and Ting Kang	Chair: Juping Zhang, Hui Cao and	
SS15: Lattice dynamical systems and	SS22: Advances in modelling of zoonotic	Suxia Zhang	
their applications	diseases using difference or differential	SS23: The application of discontinuous systems in infectious diseases	
13:30-13:55 Chufen Wu	equations and their applications	13:30-13:55 Hui Cao	
13:55-14:20 Liyuan Ma 14:20-14:45 Jiabing Wang	13:30-13:55 Zihao Guo 13:55-14:20 Ting Kang	13:55-14:20 Aili Wang	
14:45-15:10 Xiao Yu	14:20-14:45 Xin Pei	14:20-14:45 Shanshan Feng	
15:10-15:35 Yuzhou Tian	14:45-15:10 Boqiang Cao	14:45-15:10 Hong Yang 15:10-15:35 Sha He	
	15:10-15:35 Wenjuan Guo		
Zhujiang 3 (3F)	Kaixuan 7 (3F)	Kaixuan 8 (3F)	
Chair: Guo Lin, Zhicheng Wang and Shiliang Wu	Chair: Yongzhen Pei, Lei Wang and Xiaomei Feng	Chair: Fengying Wei and Weiwei Ding SS21: Continuous and discrete	
SS26: Spatial dynamics of nonlinear	SS13: Discrete and data dynamics in	dynamics of epidemic models and their	
evolution equations	biology	advances in applications	
13:30-13:55 Hongyong Wang	13:30-13:55 Chen Jia	13:30-13:55 Zhigui Lin	
13:55-14:20 Hao Kang 14:20-14:45 Weijian Bo	13:55-14:20 Shi Zhao 14:20-14:45 Juan Zhang	13:55-14:20 Fengying Wei 14:20-14:45 Weiwei Ding	
14:20-14:45 Welfian Bo	14:20-14:45 Juan Zhang 14:45-15:10 Lei Wang	14:45-15:10 Ruibin Jiang	
15:10-15:35 Xuefeng San	15:10-15:35 Buyu Wen	15:10-15:35 Chaitanya Gopalakrishna	
	15:35-15:55 Coffee Break		
Kaixuan Conference Room (3F) Kaixuan 2 (3F)		Zhujiang 2 (3F)	
Chair: Kalyan Das	Chair: Yu Zhao, Shi Zhao and Ting Kang		
Regular: Ecology & Epidemiological	SS22: Advances in modelling of zoonotic	Chair: Feng Xu, Yiming Wan,	
· · · ·	diseases using difference or differential	Shyam Kamal and Songlin Yang	
Dynamics			
15:55-16:20 Syeda Jabeen	equations and their applications	SS11: Control design topics for discrete-	
15:55-16:20 Syeda Jabeen 16:20-16:45 Jonathan Hoseana	equations and their applications 15:55-16:20 Qianqian Cui 16:20-16:45 Yu Zhao	SS11: Control design topics for discrete- time dynamical systems	
15:55-16:20 Syeda Jabeen	equations and their applications 15:55-16:20 Qianqian Cui 16:20-16:45 Yu Zhao 16:45-17:10 Jun Yang	SS11: Control design topics for discrete- time dynamical systems 15:55-16:20 Yilin Mi	
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Friday 18 July

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	A. York (Online) (Chair: Saber Elaydi) the graph of a dynamical system?		
			Kaixuan
-	n Baigent (Chair: Yuming Chen)		Conference
Title: Tri	vial but interesting dynamics		Room
10:20-10:40 Coffee	Break		(3F)
10:40-11:30 B. A. Coomes, H	. Kocak & K. J. Palmer (Online) (Chair:	Oiru Wang)	
	tle: Homoclinic chaos		
11:30-13:30 Lunch			Regal Gallery (2F)
Kaixuan Conference Room (3F)	Kaixuan 2 (3F)	*	ang 2 (3F)
			ssi, Amy Vesprauskas
Chair: Jifeng Chu and Shimin Li	Chair: Shanbing Li		ber Elaydi
SS24: Dynamics of difference and/or	SS17: Dynamics of difference and/or		iseases, evolutionary the allee effect in
differential equations	differential equations in ecology		opulations and
13:30-13:55 Jifeng Chu	13:30-13:55 Yanqiu Li		onments
13:55-14:20 Shimin Li 14:20-14:45 Haihua Liang	13:55-14:20 Siyu Liu (Online) 14:20-14:45 Xiang Liu		ny Ackleh (Online)
14:20-14:45 Hamua Liang 14:45-15:10 Xun Wang	14:20-14:45 Alang Liu 14:45-15:10 Caixia Guo		y Veprauskas (Online)
15:10-15:35 Jianfeng Huang	15:10-15:35 Jianmin Guo		ly Kwessi
for the standy standy			Cushing (Online)
			aima Slimani
Zhujiang 3 (3F)	Kaixuan 7 (3F) Chair: Alexander Lyapin and	Kaix	tuan 8 (3F)
Chair: Zhichun Yang, Qiru Wang,	Tom Cuchta		di, Nicolò Pecora and
Jinrong Wang, Xingwu Chen and	SS7: Recent results from time scales	Wirot Tikjha	
Weisong Zhou	calculus		piecewise smooth low-
SS31: Analysis and control of hybrid discrete-continuous systems	13:30-13:55 Dmitry Kruchinin (Online)	dimensional maps, theory and applications	
13:30-13:55 Jinrong Wang	13:55-14:20 Dmitry Kruchinin (Online)	13:30-13:55 W	
13:55-14:20 Tao Li	14:20-14:45 Snaiman Bandyopadnyay 13:55-14:20 Nicolò Pecora		
14:20-14:45 Weisong Zhou	(Online) 14:45-15:10 Masakazu Onitsuka 14:20-14:45 Miguel 4		iguel AF Sanjuán
14:45-15:10 Fei Shi	(Online) 14:45-15:10 Fausto Cavalli (C		
15:10-15:35	15:10-15:35 Alexander Lyapin	15:10-15:35 In	ese Bula (Online)
	15:35-15:55 Coffee Break	1	
Kaixuan Conference Room (3F)	Kaixuan 2 (3F)	Zhuji	ang 2 (3F)
Chair: Yuming Chen, Genghong Lin,	Chair: Yantao Shi, Chufen Wu,	Chair: Nat	aliia Nikishina
Yuhua Long and Zhan Zhou	Dawei Zhang and Jianshe Yu		ions and dynamics in
SS20: Advances in models and theories of nonlinear discrete systems	SS25: Theoretical and applied advances in discrete biological dynamical systems		ll systems
15:55-16:20 Yuming Chen	15:55-16:20 Qian Ding		onika Rýžová (Online)
16:20-16:45 Yiwen Chen	16:20-16:45 Deyu Kong		taliia Nikishina
16:45-17:10 Yu Gu	16:45-17:10 Yantao Shi	16:45-17:10	
17:10-17:35 Xiaofeng Pang	17:10-17:35 Rong Yan	17:10-17:35 17:35-18:00	
17:35-18:00 Shaohong Wang	17:35-18:00 Yining Chen		
Zhujiang 3 (3F)	Kaixuan 7 (3F)	Kaix	auan 8 (3F)
	Chair: Alexander Lyapin		
	and Tom Cuchta	Chair:	Qigui Yang
		Bifurcations in Non-	
Regular: Economics & Game Theory calculus Smooth S			is and Dynamics of
15:55-16:20 Abdelrahim Mousa (1)	15:55-16:20 Sreelatha Chandragiri		tic Systems
16:20-16:45 Mourad Azioune	(Online)		igui Yang
16:45-17:10 Kailash Chandra Patidar	16:20-16:45 Syed Abbas (Online)		ongjian Liu
17:10-17:35 Tomas Tichy 17:35 18:00	16:45-17:10 F. Ayca Cetinkaya &Kursat Er (Online)		houchao Wei
17:35-18:00	&Kursat Er (Online) 17:10-17:35 Nick Wintz (Online)		aibing Zeng aitang Huang
	17:35-18:00 Tom Cuchta (Online)	17.55-10.00 22	inang muang



Saturday 19 July

08:30-09:20	Serhiy Yanchuk (Online) (Chair: Laura Gardini)	
Title: Discretizing delay systems can yield deep neural networks		
09:30-10:20	Guo-Cheng Wu (Chair: Zhan Zhou)	Kaixuan
Title: Fractional difference equations in machine learning		Conference
10:20-10:40	Coffee Break	Room
10:40-11:30	Jianshe Yu (Chair: Jia Li)	(3F)
Title: Discrete-time models for interactive dynamics of wild and sterile mosquitoes		
11:30-12:00	Closing Ceremony	
12:00-13:30	Lunch	Regal Gallery (2F)





Notes





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