

The 14th Taiwan-Japan joint workshop for young scholars in applied mathematics

Program

Venue: room 516, Nakano Campus, Meiji University

Organizers:

Chiun-Chuan Chen (National Taiwan University)
Yan-Yu Chen (National Taiwan University)
Jann-Long Chern (National Taiwan Normal University)
Chang-Hong Wu (National Yang Ming Chiao Tung University)
Juan-Ming Yuan (Providence University)
Chueh-Hsin Chang (National Chung Cheng University)
Yung-Fu Fang (National Cheng Kung University)
Wen-Ching Lien (National Cheng Kung University)
Hung-Wen Kuo (National Cheng Kung University)
Takeshi Fukao (Ryukoku University)
Tatsuki Kawakami (Ryukoku University)
Hideki Murakawa (Ryukoku University)
Shu-Ichi Kinoshita (Musashino University)
Kazuhiro Ishige (University of Tokyo)
Toshiyuki Ogawa (Meiji University)

Local organizers:

R. Mori, Y. Tsukamoto
Elliott Ginder, Kota Ikeda, H. Ninomiya (Meiji University)

Sponsors

Meiji University, MIMS, Ryukoku University
NCTS
JSPS KAKENHI Grant Numbers: JP20H01816, JP22K03440

Feb.27	room 516, Meiji University	
9:50-10:00	Opening (Registraion starts from 9:30)	
10:00--10:10	Yoshiyuki Iguchi (Meiji University, B4)	1
10:10--10:20	Jing-En Huang (National Taiwan Normal University, B4)	2
10:20--10:30	Yuki Kimura (Musashino University, B4)	3
10:30--10:40	BoLin Lai (National Taiwan Normal University, B3)	4
10:40--10:50	Tomoki Okamoto (Musashino University, B4)	5
Break		
11:00--11:15	Rena Okada (Meiji University, M1)	6
11:15--11:30	You-jun Li (National Taiwan Normal University, M1)	7
11:30--11:45	Sosuke Hiraoka (Future University Hakodate, M1)	8
11:45--12:00	Yu-Ru Pai (National Cheng Kung University, M1)	9
Lunch Break		
13:15--13:30	Hikaru Ariyoshi (Meiji University, M2)	10
13:30--13:45	Jia-Yu Lin (National Taiwan University, M2)	11
13:45--14:00	Ami Murai (Ryukoku University, M2)	12
14:00--14:15	Chien-Feng Chen (National Cheng Kung University, M2)	13
Break		
14:25--14:40	Ryo Iwasaki (Meiji University, M2)	14
14:40--14:55	Zheng Xuan Wu (National Taiwan University, M2)	15
14:55--15:10	Jo Kubokawa (Meiji University, M1)	16
15:10--15:25	Yuhuan Tai (National Taiwan University, M2)	17
Break		
15:55--16:10	Akito Tatekawa (Meiji University, M2)	18
16:10--16:25	Jia Hao Wu (National Taiwan University, M2)	19
16:25--16:40	Mahiro Fujinami (Meiji University, M2)	20
Break		
16:50--17:05	Yuhei Onishi (Meiji University, M1)	21
17:05--17:20	Jiabao Yang (Musashino University, M1)	22
17:20--17:35	Bo-Sheng Chen (National Yang Ming Chiao Tung University, M1)	23
Break		
17:45--18:00	Chiaki Shimizu (Musashino University, M1)	24
18:00--18:15	Bang Shien Chen (National Taiwan Normal University, M1)	25

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10:00--10:15	Hiroataka Goto (Meiji University, M2)	26
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10:15--10:30	Yu-Chen Xiao (National Taiwan University, M2)	27
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10:30--10:45	Koki Shinoda (Meiji University, M1)	28
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Break

10:55--11:10	Keigo Masuda (Meiji University, M1)	29
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11:10--11:25	Wei-Siang Fang (National Chung Cheng University, M2)	30
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11:25--11:40	Kohei Okawa (Ryukoku University, M2)	31
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Lunch Break

12:55--13:10	Pei-Zhen Wang (National Cheng Kung University, D1)	32
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13:10--13:25	Sho Katayama (University of Tokyo, D1)	33
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13:25--13:40	Chou Kao (National Cheng Kung University, D2)	34
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Break

13:50--14:05	Cheng-Pu Lin (National Yang Ming Chiao Tung University, D2)	35
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14:05--14:20	Yusuke Oka (University of Tokyo, D1)	36
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Break

14:30--14:45	Jen-Chieh Teng (National Taiwan University, D3)	37
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14:45--15:00	Sofia Navarro Yabe (Meiji University, D2)	38
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15:00--15:15	Yue-Hong Li (National Cheng Kung University, D3)	39
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15:15--15:30	Ryu Fujiwara (Meiji University, D3)	40
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Break

17:30--20:00	Awards Ceremony and Banquet (6th floor)	
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Feb. 29

10:00-13:00	Free discussion	
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Feb.27 room 516, Meiji University

9:50-10:00 Opening (Registration starts from 9:30)

10:00--10:10 Yoshiyuki Iguchi (Meiji University, B4) 1 Topological Data Analysis of An Epicentre Distribution

10:10--10:20 Jing-En Huang (National Taiwan Normal University, B4) 2 Multi-Camera Multi-People Tracking on Basketball Matches Based on Deep Learning Models

10:20--10:30 Yuki Kimura (Musashino University, B4) 3 Traveling front on a 1- and 2-dimensional growth-diffusion-chemotaxis model

10:30--10:40 BoLin Lai (National Taiwan Normal University, B3) 4 Exploring Parameter Estimation Techniques for HIV Modeling: From Simulation Data to Real-world Applications

10:40--10:50 Tomoki Okamoto (Musashino University, B4) 5 Shape and stability of stationary solutions for the 1D Gray-Scott model

Break

11:00--11:15 Rena Okada (Meiji University, M1) 6 Mathematical Modeling and Simulation of Droplet Motion

11:15--11:30 You-jun Li (National Taiwan Normal University, M1) 7 3D Point Clouds Semantic Segmentation Using Visual-Language Models

11:30--11:45 Sosuke Hiraoka (Future University Hakodate, M1) 8 Mathematical modeling of Proneural Wave on growing domain

11:45--12:00 Yu-Ru Pai (National Cheng Kung University, M1) 9 A previous study on fractional calculus

Lunch Break

13:15--13:30 Hikaru Ariyoshi (Meiji University, M2) 10 Analysis of Wealth Distribution in Japan via the Affine Wealth Model

13:30--13:45 Jia-Yu Lin (National Taiwan University, M2) 11 Inverse Scattering Problem for Piecewise Constant Coefficients using Deep Learning Algorithm

13:45--14:00 Ami Murai (Ryukoku University, M2) 12 Mathematical analysis of time-fractional diffusion equation with a nonlinear boundary condition

14:00--14:15 Chien-Feng Chen (National Cheng Kung University, M2) 13 Few-shot learning for identifying abnormal vocal signals by YAMNet and transfer learning.

Break

14:25--14:40 Ryo Iwasaki (Meiji University, M2) 14 A motion model of spherical microorganisms under free boundary conditions

14:40--14:55 Zheng Xuan Wu (National Taiwan University, M2) 15 Non-monotone travelling wave solutions for the n-species Lotka-Volterra competitive system with diffusion

14:55--15:10 Jo Kubokawa (Meiji University, M1) 16 Pulsating traveling wave in the Mitchell-Schaeffer model

15:10--15:25 Yuhuan Tai (National Taiwan University, M2) 17 Simulation and Application of Variational Inference

Break

15:55--16:10 Akito Tatekawa (Meiji University, M2) 18 Presence of Dirac points in the diamond crystal

16:10--16:25 Jia Hao Wu (National Taiwan University, M2) 19 A Refinement Method for Blow-up Solutions to the Energy-Subcritical Semilinear Heat Equation

16:25--16:40 Mahiro Fujinami (Meiji University, M2) 20 Spatio-temporal Dynamics on Bioconvection of Euglena under Periodic Light Illumination

Break

16:50--17:05 Yuhei Onishi (Meiji University, M1) 21 Traveling Waves Induced by Precipitation and Re-dissolution Reactions

17:05--17:20 Jiabao Yang (Musashino University, M1) 22 A numerical analysis approach to algorithms for continuous optimization problems

17:20--17:35 Bo-Sheng Chen (National Yang Ming Chiao Tung University, M1) 23 On the Role of Asymmetric Dispersal Rates in a Multi-Strain SIR Model in Patchy Environment

Break

17:45--18:00 Chiaki Shimizu (Musashino University, M1) 24 A finite difference method and its error estimate for a system of nonlinear Klein-Gordon equations

18:00--18:15 Bang Shien Chen (National Taiwan Normal University, M1) 25 Global solver for Geman-McClure robust rotation estimation with outlier rejection

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10:00--10:15	Hiroataka Goto (Meiji University, M2)	26	Onset of intragroup conflict in a generalized model of social balance
10:15--10:30	Yu-Chen Xiao (National Taiwan University, M2)	27	Bernstein-von-Mises theorem, Bayesian method, in EIT inverse Problems
10:30--10:45	Koki Shinoda (Meiji University, M1)	28	Mode-switching of Self-propelled Camphor Disks depending on the Number Density
Break			
10:55--11:10	Keigo Masuda (Meiji University, M1)	29	Cluster Formation of Self-propelled BZ Droplets
11:10--11:25	Wei-Siang Fang (National Chung Cheng University, M2)	30	Comparison of CNNs and Capsule Networks for CAPTCHA recognition
11:25--11:40	Kohei Okawa (Ryukoku University, M2)	31	Numerical simulation of breaking ball
Lunch Break			
12:55--13:10	Pei-Zhen Wang (National Cheng Kung University, D1)	32	Relativistic Euler Equations
13:10--13:25	Sho Katayama (University of Tokyo, D1)	33	An inhomogeneous boundary value problem for the Lane--Emden equation on a cone
13:25--13:40	Chou Kao (National Cheng Kung University, D2)	34	
Break			
13:50--14:05	Cheng-Pu Lin (National Yang Ming Chiao Tung University, D2)	35	Well-posedness of The General KdV equation
14:05--14:20	Yusuke Oka (University of Tokyo, D1)	36	Quenching for axisymmetric hypersurfaces under forced mean curvature flows
Break			
14:30--14:45	Jen-Chieh Teng (National Taiwan University, D3)	37	A General Semi-parametric Distribution Model with Latent Group-specific Indices
14:45--15:00	Sofia Navarro Yabe (Meiji University, D2)	38	Barchan movement by the sand supply using crest line model
15:00--15:15	Yue-Hong Li (National Cheng Kung University, D3)	39	Hexahedral Mesh Generating for Complex Models.
15:15--15:30	Ryu Fujiwara (Meiji University, D3)	40	Reconstructing underlying network from observed 2-mode clustering pattern using nonlocal monostable equation with s
Break			
17:30--20:00	Awards Ceremony and Banquet (6th floor)		

Feb. 29

10:00-13:00 Free discussion

JR Chuo-Line or Sobu-Line



Around 10 min from Shinjuku to Asagaya.

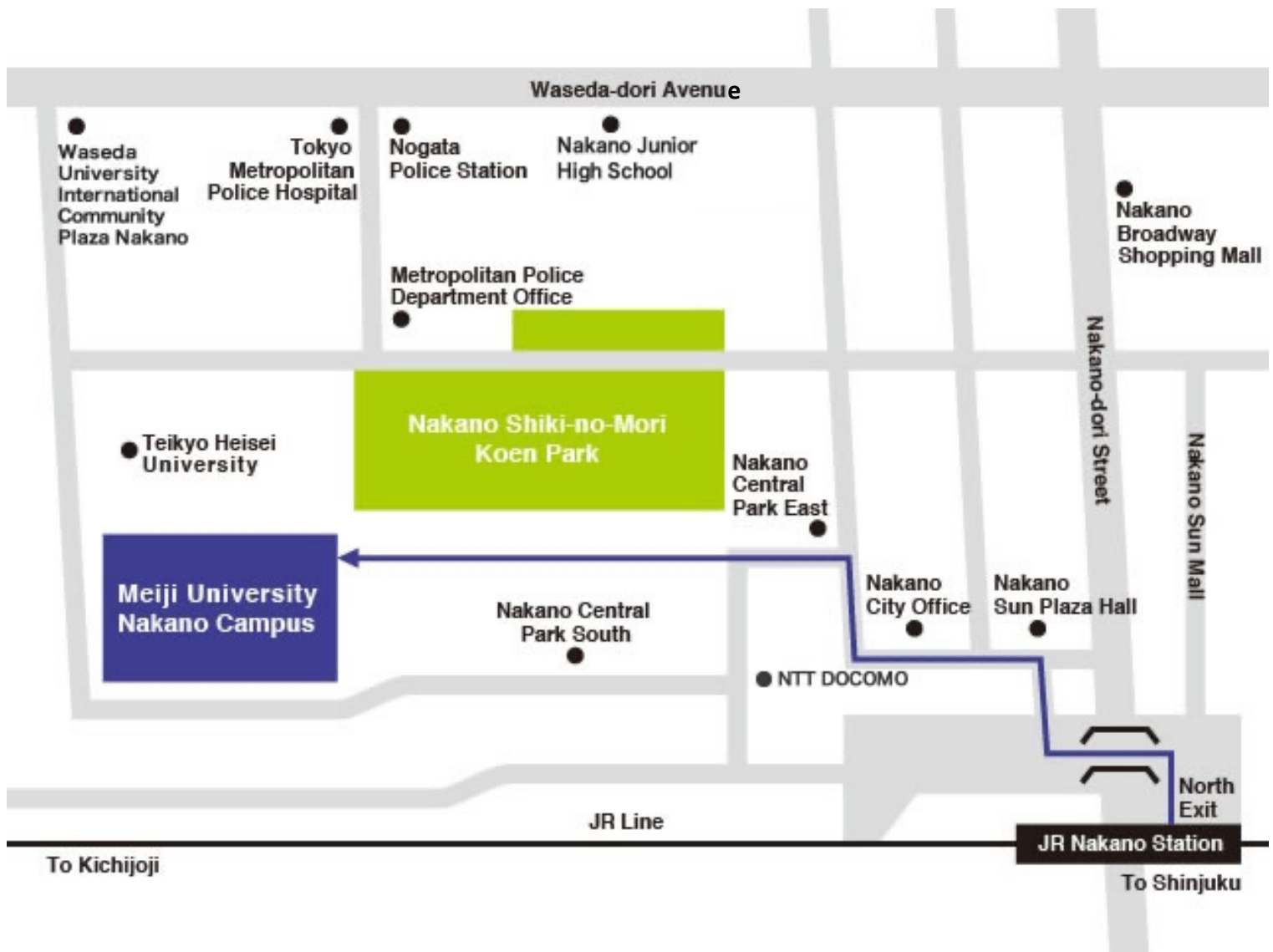
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Phone : 81-3-5327-0011

Smile Hotel, Tokyo Asagaya

3-37-11 Asagaya-Minami, Sugunami-ku, Tokyo
Phone : 03-3220-8755

From Nakano Station to Meiji University



It is also within walking distance from Koenji.