

Conference (Venue M202 M Building, Faculty of Science, Mahidol University (Phayathai Campus))			
Date	Time	Session	Speaker
Day 1 Mon 23/0	08.30-09.00	Registration	
	09.00-09.15	Opening Remarks	Asst. Prof. Kwan Arayathanitkul Deputy Dean for Education, Faculty of Science Mahidol University
	09.15-09.30	Welcome Address	Asst. Prof. Somkid Amornsamankul Head of Mathematics Department, Faculty of Science Mahidol University
	09.30-09.45	Welcome Address	Chairman of the Heidelberg Graduate School of Mathematical and Computational Methods for the Sciences Heidelberg University
	09.45-10:30	Invited Talk (Medical Science) : Role of Dynamical Modelling in Advancing Bio-medical Science: A Case study of Modelling Diabetes Mellitus	Prof. Yongwimon Lenbury Centre of Excellence in Mathematics
	10:30-10:45	Coffee Break	
	10:45-11:45	Invited Talk (Medical Science) : Virus Host Shifts from a Niche Evolution Perspective	Dr. Peter Franson Heidelberg University
	11:45-12:45	Lunch	
	12:45-13:45	Invited Talk (Finance) : Evaluating the Impact of ESG Sustainability Factors on US Index Returns	Dr.Pasin Marupanthorn Maejo University
	13:45-14:00	Participant Talk (Finance) : Equitable Auction Design: With and Without Distributions	Asst. Prof. Napat Rujeerapaiboon National University of Singapore
	14:00-14:15	Participant Talk (Finance) : Robust Ensembling: Limited Data & Unlimited Queries	Shuting Yang National University of Singapore
	14:15-14:30	Coffee Break	
	14:30-15:30	Invited Talk (Weather Forecast) :	Asst. Prof. Somporn Chuai-Aree Prince of Songkla University, Pattani Campus
	15:30-15:45	Participant Talk (Weather Forecast) : Advanced Computational Framework for Surface/Subsurface Flow Simulation	Mr. Panasun Manorost Heidelberg University
	15:45-16:00	Participant Talk (Weather Forecast) : Unveiling PM2.5 Dynamics in Northern Thailand through Higher- Order Network Clustering	Ms.Supawan Nanta Chiang Mai University
Day 2Tue 24/03,	9:00-10:00	Invited Talk (Finance)-online : Solving Stochastic Climate-Economy Models Using Least-Squares Monte Carlo Method	Prof. Pavel Shevchenko Macquarie University
	10:00-10:15	Coffee Break	
	10:15-11:15	Invited Talk (Finance) : A Piecewise Deterministic Approach for Parameter Estimation in Multi-Dimensional Stochastic Differential Equation Models	Dr. Andreas Sommer Heidelberg University
	11:15-12:15	Poster Presentation	
	12:15-13:15	Lunch	
	13:15-14:15	Invited Talk (Finance) : Singular Stochastic Control in Real Investments	Mr. Arnon Archankul Walailak University
	14:15-14:30	Participant Talk (Finance) : An Analytical Formula for the Transition Density of a Conic Combination of Independent Squared Bessel with Time- Dependent Dimensions and Financial Applications	Ms.Chhaunny Chhum Walailak University
	14:30-14:45	Coffee Break	
	14:45-15:45	Invited Talk (Weather Forecast) : Identifying Redundant Rainfall Stations in Northern Thailand by Comparing Ordinary Kriging and Universal Kriging with Adaptive Simulated Annealing	Dr. Adsadang Himakalasa Chiangmai University
	15:45-16:45	Invited Talk (Weather Forecast): GeoAI for Disaster Management	Prof. Alexander Zipf Heidelberg University

Conference (Venue M202 M Building, Faculty of Science, Mahidol University (Phayathai Campus))			
Date	Time	Session	Speaker
Day 3 Wed 25/03	09:00-10:00	Invited Talk (Finance) : Parameter Estimation for Forward Kolmogorov Equation with Application to Nonlinear Exchange Rate Dynamics	Prof. Dr. Ekaterina Kostina Heidelberg University
	10:00-10:15	Coffee Break	
	10:15-11:15	Invited Talk (Medical Science) : Computational Modelling of Osteoporosis Risk in Postmenopausal Thai Women Using Machine Learning Approaches	Assoc.Prof. Pornsarp Pornsawad Silpakorn University
	11:15-12:15	Poster Presentation	
	12:15-13:15	Lunch	
	13:15-14:15	Invited Talk (Medical Science) : Multi-conditional expression mapping to metabolic flux modeling for precision and systems biology insights	Assoc. Prof. Dr. Kitiporn Plaimas Chulalongkorn University
	14:15-14:45	Invited Talk (Medical Science) : 4TaStiC: Time and trend traveling time series clustering for classifying long-term type 2 diabetes patients	Assoc.Prof. Nathakhun Wiroonsri King Mongkut's University of Technology Thonburi
	14:45-15:00	Coffee Break	
	15:00-16:00	Invited Talk (Medical Science) : Multi-Modal Geodata for Public Health & Humanitarian Aid	Prof. Alexander Zipf Heidelberg University
Day 4 Thu 26/03	9:00-09:15	Participant Talk (Medical Science) : Parameter Estimation Problem in Pharmacokinetic Model for the Treatment of Type II Diabetes Mellitus Using Metformin	Prof. Dr. Narayan Thapa Dallas College
	09:15-09:30	Participant Talk (Finance) : Double-Scale Stochastic Volatility and Stochastic Correlation in Cross-Inverse Options and its Application to Crypto-Assets	Mr. Angelo Marasigan University of the Philippines Los Baños / Walailak University
	09:30-09:45	Participant Talk (Finance) : Analysis and computation of low order conditional moments of extended Cox-Ingersoll-Ross processes with 3-state regime switching	Mr. Phattharaphon Boonsaem Suranaree University of Technology
	09:45-10:15	Coffee Break	
	10:15-11:15	Invited Talk (Finance) : Interacting Particle Systems and Complex Dynamics	Asst. Prof. Watthanan Jatuviriyapornchai Mahidol University
	11:15-12:00	Poster Presentation	
	12:00-13:00	Lunch	
	13:00-17:00	Visit to Museum Siam	Excursion (for invited guests)
Day 5 Fri 27/03/2	09:30-10:30	Invited Talk (Medical Science) : Algorithmic Treatment of Filippov-Type Switched and Sliding-Mode ODE Systems with IFDIFF	Dr. Andreas Sommer Heidelberg University
	10:30-10:45	Coffee Break	
	10:45-12:00	Invited Talk (Finance) : Carry-Enhanced Pair Trading via Put-Call Parity	Dr. Pasin Marupanthorn Maejo University
	12:00-13:30	Lunch	
	13:30-14:30	Closing Ceremony & Certificate Presentation	Asst. Prof. Kwan Arayathanitkul Deputy Dean for Education, Faculty of Science Mahidol University
	14:30-15:00	Coffee Break	
	15:00-16:00	Meeting	CSSS Committee