

11th International Conference “Inverse Problems: Modeling and Simulation”

Paradise Bay Resort Hotel, Malta, 26 May – 1 June 2024

CONFERENCE PROGRAMME OUTLINE

REGISTRATION: Paradise Bay Resort Hotel Reception Hall

SUNDAY, 26 May 2024, 14:00-18:00

MONDAY, 27 May 2024, 08:30-10:00

MONDAY, 27 May 2024

10:00-10:35	Opening Ceremony & Award Presentation (Amphitheatre)			
10:40-11:20	PLENARY SESSION (Salon A)			
	<p>Chrysoula Tsogka, University of California, Merced, USA <i>Correlation-informed ordered dictionary learning for imaging in complex media</i></p>			
11:20-11:40	Coffee Break			
	MINISYMPOSIUMS (Sessions consist of four 25-minute presentations.)			
	Salon B	Salon B	Salon C	Salon D
11:40-13:20	<p>M1: The Radon Transform: Progress and Challenges <i>Minisymposium dedicated to Professor Jan Boman</i> Organizers: R. Novikov, T. Quinto Session 1</p>	<p>M10: Inverse and Control Problems for Evolution Equations and Variational Inequalities Organizer: M. Slodička Session 1</p>	<p>M4: New Trends in Regularization Theory Organizers: S. Kindermann, R. Plato, B. Hofmann Session 1</p>	<p>M12: Applied Inverse Problems and Partial Differential Equations Organizers: K. Van Bockstal, M. Ruzhansky, B. Torebek Session 1</p>
13:20-14:30	Lunch			
14:30-16:10	M1 (Continued) Session 2	M10 (Continued) Session 2	M4 (Continued) Session 2	M12 (Continued) Session 2
16:10-16:30	Coffee Break			
16:30-18:35	<p>M2: Microlocal Analysis and Waves: Progress and Challenges Organizers: R. Ramlau, T. Quinto, K. Sadiq, O. Scherzer Session 1</p>	<p>M17: In Memoriam: Professor Pierre Célestin Sabatier (1935-2023) Organizer: C. Sebu Session 1</p>	<p>M16: Inverse Problem Theory for Innovation of Detection Methods Organizers: H. Itou, V. Kovtunenکو, Y. Kian Session 1</p>	M12 (Continued) Session 3
19:30-20:30	Welcome Party			

TUESDAY, 28 May 2024

PLENARY SESSION (Salon A)				
09:00-09:40	<p>Florian Faucher, INRIA Bordeaux, University of Pau and Pays de l'Adour, France <i>Numerical inverse wave problems for quantitative visco-elastic reconstructions</i></p>			
MINISYMPOSIUMS				
	Salon A	Salon B	Salon C	Salon D
09:50-11:30	<p>M2: Microlocal Analysis and Waves: Progress and Challenges (Continued) Organizers: R. Ramlau, T. Quinto, K. Sadiq, O. Scherzer Session 2</p>	<p>M17: In Memoriam: Professor Pierre Célestin Sabatier (1935-2023) Organizer: C. Sebu (Continued) Session 2</p>	<p>M4: New Trends in Regularization Theory (Continued) Organizers: S. Kindermann, R. Plato, B. Hofmann Session 3</p>	<p>M12: Applied Inverse Problems and Partial Differential Equations (Continued) Organizers: K. Van Bockstal, M. Ruzhansky, B. Torebek Session 4</p>
11:30-11:50	Coffee Break			
11:50-13:30	<p>M2 (Continued) Session 3</p>	<p>M17 (Continued) Session 3</p>	<p>M5: Inverse Problems in Hybrid Imaging Modalities Organizers: S. Arridge, L. Kunyansky Session 1</p>	<p>M12 (Continued) Session 5</p>
13:30-15:00	Lunch			
15:00-16:40	<p>M2 (Continued) Session 4</p>	<p>M11: Image Restoration Under Poisson Noise Organizers: F. Benvenuto, Y. Lou, F. Werner Session 1</p>	<p>M14: Recent Advances in Inverse Scattering Theory and Applications Organizers: T. Hohage, S. Meng, R. Novikov Session 1</p>	<p>M15: Imaging with Waves in Complex Media Organizers: A. Kim, C. Tsogka Session 1</p>
16:40-17:00	Coffee Break			
17:00-18:40	<p>M16: Inverse Problem Theory for Innovation of Detection Methods (Continued) Organizers: H. Itou, V. Kovtunenکو, Y. Kian Session 2</p>	<p>M11 (Continued) Session 2</p>		<p>M15 (Continued) Session 2</p>
19:00-19:30	Biennial Assembly of the Eurasian Association on Inverse Problems (Salon A)			

WEDNESDAY, 29 May 2024

Excursions

10:00-17:00

Round Malta Boat Tour

This tour includes open bar all day for water, soft drinks and juice, morning snack, cold buffet lunch including beer and wine, fresh fruits, English commentary and a stop for swimming (departure from the hotel at 9:30).

09:30-17:30

Malta City Sightseeing Tour

This tour includes visits of Valletta, St. John's Co-Cathedral, Mdina and time-permitting a small stop for swimming or a short boat tour at the Blue Grotto.

Each of these excursions costs 55 euros per person.
This fee must be paid to the conference assistant at the registration desk a few days before the tours begin.

THURSDAY, 30 May 2024

PLENARY SESSION (Salon A)				
09:00-09:40	Vladislav V. Kravchenko , Center for Research and Advanced Studies of the National Polytechnic Institute, Queretaro, Mexico <i>New series representations and reconstruction techniques in inverse coefficient problems</i>			
MINISYMPOSIUMS				
	Salon A	Salon B	Salon C	Salon D
09:50-11:30	M9: Inverse Problems for Fractional Equations Organizers: G. Covi, B. Kaltenbacher, M. Salo Session 1	M8: Inverse Problems with Data-Driven Methods and Deep Learning Organizers: T. Bubba, A. Hauptmann, L. Ratti Session 1	M14: Recent Advances in Inverse Scattering Theory and Applications (Continued) Organizers: T. Hohage, S. Meng, R. Novikov Session 2	M7: Bayesian, Variational, and Optimization Techniques for Inverse Problems in Stochastic PDEs Organizers: B. Kaltenbacher, A. Khan, H.J. Starkloff, C. Tammer Session 1
11:30-11:50	Coffee Break			
11:50-13:30	M9 (Continued) Session 2	M8 (Continued): Session 2	M14 (Continued) Session 3	M7 (Continued) Session 2
13:30-15:00	Lunch			
15:00-16:40	M3: Inverse and Control Problems in Vibrating Structures: Theory, Applications and Computational Aspects Organizers: O. Baysal, A. Kawano, A. Morassi Session 1	M6: Topological Derivatives in Inverse Problems and Shape Optimization Organizers: P. Gangl, M.-L. Rapún Session 1	M5: Inverse Problems in Hybrid Imaging Modalities (Continued) Organizers: S. Arridge, L. Kunyansky Session 2	M7 (Continued) Session 3
16:40-17:00	Coffee Break			
17:00-18:40	M3 (Continued) Session 2	M6 (Continued) Session 2		
20:00-24:00	Banquet			

FRIDAY, 31 May 2024

09:00-09:40	PLENARY SESSION (Salon A)			
	<p>Pierre Weiss, Toulouse Mathematics Institute, University of Toulouse, France <i>How artificial intelligence is changing Bayesian inversion?</i></p>			
	MINISYMPOSIUMS			
	Salon A	Salon B	Salon C	Salon D
09:50-11:30	<p>M9: Inverse Problems for Fractional Equations (Continued) Organizers: G. Covi, B. Kaltenbacher, M. Salo Session 3</p>	<p>M13: Applications of Rich Tomography Organizers: S. Holman, W.R.B. Lionheart Session 1</p>	<p>M10: Inverse and Control Problems for Evolution Equations and Variational Inequalities (Continued) Organizer: M. Slodička Session 3</p>	<p>M7: Bayesian, Variational, and Optimization Techniques for Inverse Problems in Stochastic PDEs (Continued) Organizers: B. Kaltenbacher, A. Khan, H.J. Starkloff, C. Tammer Session 4</p>
11:30-11:50	Coffee Break			
11:50-13:30	<p>M8: Inverse Problems with Data-Driven Methods and Deep Learning (Continued) Organizers: T. Bubba, A. Hauptmann, L. Ratti Session 3</p>	<p>M13 (Continued) Session 2</p>	<p>M10 (Continued) Session 4</p>	<p>M7 (Continued) Session 5</p>
13:30-15:00	Lunch			
15:00-16:40	<p>M8 (Continued) Session 4</p>	<p>M3: Inverse and Control Problems in Vibrating Structures: Theory, Applications and Computational Aspects (Continued) Organizers: O. Baysal, A. Kawano, A. Morassi Session 3</p>		
16:40-17:00	Coffee Break			
18:50-19:20	Closing Ceremony. Election of Committee Members for IPMS 2026 (Salon A)			