

## Monday, July 4th

9:00 - 9:30	<b>Conference opening</b> (Room A)	
9:30 – 10:30	Plenary talk (Room A) <b>Hans Georg Bock</b> (University of Heidelberg) <i>Inverse Optimal Control Problems and Application to Modeling the Gait of Cerebral Palsy Patients</i> Chair: Marek Niezgodka	
10:30 – 11:30	Coffee break	
	Session talks (Room A) <b>Control and Optimization in PDEs</b>	Session talks (Room B) <b>Modeling, analysis and optimization in infinite dimensional dynamics [distributed parameter systems] with applications</b>
11:30 – 12:00	<b>Vanja Nikolić</b> (Radboud University) <i>A phase-field approach to shape and topology optimization of acoustic waves in dissipative media</i>	<b>Marcelo Bongarti</b> (Weierstrass Institute for Applied Analysis and Stochastics) <i>Nonlinear gas transport on a network of pipelines: analysis and control</i>
12:00 – 12:30	<b>Nicolas Vanspranghe</b> (GIPSA-lab, Université Grenoble Alpes) <i>Output regulation of nonlinear infinite-dimensional systems</i>	<b>Piotr Fulmański</b> (University of Łódź) <i>Optimal Control in Machine Learning to Model Approximation of Neural Network</i>
12:30 – 13:00	<b>Barbara Kaltenbacher</b> (University of Klagenfurt) <i>On the inverse problem of nonlinearity parameter imaging with ultrasound</i>	<b>Marcelo Bongarti</b> (Weierstrass Institute for Applied Analysis and Stochastics) In place of <b>Irena Lasiecka</b> (University of Memphis) <i>Boundary feedback stabilization of a critical nonlinear JMGT equation with Neumann-undissipated part of the boundary</i>
13:00 – 14:30	Lunch break	
14:30 – 15:30	Plenary talk (Room A) <b>Martin Kružík</b> (Institute of Information Theory and Automation Czech Academy of Sciences) <i>Nonlinear and linearized models in thermoviscoelasticity</i> Chair: Fredi Tröltzsch	
15:30 – 16:00	Coffee break	

	Session talks (Room A) <b>Control and Optimization in PDEs</b>	Session talks (Room B) <b>Modeling, analysis and optimization in infinite dimensional dynamics [distributed parameter systems] with applications</b>	Session talks (Room C) <b>Stochastic dynamic games in continuous time and related topics</b>
16:00 – 16:30	<b>Paul Manns</b> (TU Dortmund University) <i>Improved Regularity for Sequential Linear Integer Programming for Integer Optimal Control</i>	<b>Krzysztof Leśniewski</b> (Systems Research Institute Polish Academy of Sciences) New regularity conditions for abstract infinite-dimensional optimization problems	<b>Maike Klein</b> (Christian-Albrecht University of Kiel) <i>On a time-inconsistent optimal stopping problem with expectation constraint</i>
16:30 – 17:00	<b>Sebastian Hillbrecht</b> (TU Dortmund University) <i>L<sup>2</sup> Regularized Control of Kantorovich Problems</i>	<b>Marta Lipnicka</b> (University of Łódź) <i>Optimal control using to approximate probability distribution of observation set</i>	<b>Josef Strini</b> (Graz University of Technology) <i>A time-inconsistent variation of the dividend problem</i>
17:00 – 17:30	<b>Iryna Ryzhkova</b> (V.N. Karazin Kharkiv National University) <i>On an attractor for smooth solutions to the interactive system of the fluid and the full von Karman shell without rotational inertia</i>	<b>Radosław Matusik</b> (University of Łódź) <i>Fixed-time anti-synchronization for reaction-diffusion neural networks</i>	<b>Oskar Hallmann</b> (Christian-Albrecht University of Kiel) <i>Crossing concave curves - first hitting times of Brownian motion via Linear Programming</i>
17:30 – 18:00	<b>Weiwei Hu</b> (University of Georgia) <i>Feedback Control of Flow-Transport Systems</i> <a href="#">TALK ONLINE</a>		<b>Kristoffer Lindensjö</b> (Stockholm University) <i>Mixed strategies for time-inconsistent stopping</i>

## Tuesday, July 5th

9:00 – 10:00	Plenary talk (Room A) <b>Anna Marciniak-Czochra</b> (University of Heidelberg) <i>Mathematical hematology: Model-based approach to understand cancer heterogeneity and resistance to therapy</i> Chair: Jan Palczewski		
	Session talks (Room A) <b>Stochastic analysis and applications</b> Chair: Miklos Rasonyi	Session talks (Room B) <b>Inverse Problems for Fractional Diffusion</b>	Session talks (Room C) <b>Numerics and analysis of optimal control problems with partial differential equations</b>
10:00 – 10:30	<b>Jacek Jakubowski</b> (University of Warsaw) <i>Distribution of local time of regular diffusions</i>	<b>Jaan Janno</b> (Tallinn University of Technology) <i>On some inverse problems that use nonlocality of fractional derivatives</i>	<b>Luis Ammann</b> (University of Duisburg-Essen) <i>Acoustic Full-Waveform Inversion via Optimal Control</i>
10:30 – 11:00	<b>Maciej Wiśniewolski</b> (University of Warsaw) <i>On certain integro-differential equations and local time of diffusions</i>	<b>Zhi Zhou</b> (Hong Kong Polytechnic University) Inverse potential problem for subdiffusion: numerical approximation and error analysis <a href="#">TALK ONLINE</a>	<b>Maurice Hensel</b> (University of Duisburg-Essen) <i>Quasilinear Obstacle Problems in Ferromagnetic Shielding: Analysis and Optimal Control</i>
11:00 – 11:30	Coffee break		
	Session talks (Room A) <b>Stochastic analysis and applications</b> Chair: Łukasz Stettner	Session talks (Room B) <b>Inverse Problems for Fractional Diffusion</b>	Session talks (Room C) <b>Control and Optimization in PDEs</b>
11:30 – 12:00	<b>Christoph Belak</b> (Technische Universität Berlin) <i>Convergence of Deep Solvers for Semilinear PDEs</i>	<b>Zhidong Zhang</b> (Sun Yat-sen University) <i>Inverse source problem in (fractional) diffusion equation with sparse data</i> <a href="#">TALK ONLINE</a>	<b>Genni Fragnelli</b> (University of Tuscia) <i>Controllability and stabilization for a degenerate wave equation in non divergence form with drift</i> <a href="#">TALK ONLINE</a>
12:00 – 12:30	<b>Mariusz Niewęglowski</b> (Warsaw University of Technology) <i>Multivariate Markovian Hawkes processes</i>	<b>Yavar Kian</b> (Aix Marseille Université) <i>Inverse problems for diffusion equations using single measurement</i>	<b>Sarah Strikwerda</b> (North Carolina State University) <i>Optimal Control in Fluid Flows through Deformable Porous Media</i>

12:30 – 13:00	<b>Agnieszka Rygiel</b> (Cracow University of Economics) <i>On utility based pricing of contingent claims in finite discrete time</i>	<b>Masahiro Yamamoto</b> (The University of Tokyo) <i>Uniqueness for inverse source problems for time-fractional diffusion-wave equations by data after incident</i> <a href="#">TALK ONLINE</a>	<b>Tamara Fastovska</b> (V.N. Karazin Kharkiv National University) <i>Long time behavior of solutions to a nonlinear beam transmission problem</i>
13:00 – 14:30	Lunch break		
14:30 – 15:30	Plenary talk (Room A) <b>Benedikt Wirth</b> (University of Münster) <i>Exact reconstruction and reconstruction from noisy data: Going beyond point sources?</i> Chair: Barbara Kaltenbacher		
15:30 – 16:00	Coffee break		
	Session talks (Room A) <b>Stochastic control and games</b> Chair: Jan Palczewski	Session talks (Room B) <b>Inverse Problems for Fractional Diffusion and Inverse problems, Modeling and Analysis for Fractional PDEs</b>	
16:00 – 16:30	<b>Miklos Rasonyi</b> (Alfred Renyi Institute of Mathematics) <i>Highly risk-averse investors in mean-reverting market models</i>	Session <b>Inverse Problems for Fractional Diffusion</b> <b>Tuhin Ghosh</b> (Bielefeld University) <i>Nonlocal Calderón problem</i> <a href="#">TALK ONLINE</a>	
16:30 – 17:00	<b>Damian Jelito</b> (Jagiellonian University) <i>Long-run impulse control in the risk-sensitive framework</i>	Session <b>Inverse problems, Modeling and Analysis for Fractional PDEs</b> <b>Vanja Nikolić</b> (Radboud University) <i>Nonlinear acoustic modeling based on fractional heat flux laws</i>	
17:00 – 17:30	<b>Marcin Pitera</b> (Jagiellonian University) <i>Long-run risk-sensitive stochastic control: entropic formulation and MPE existence</i>	Session <b>Inverse problems, Modeling and Analysis for Fractional PDEs</b> <b>William Rundell</b> (Texas A&M University) <i>On Recovering the Fractional Damping Operator in a Wave Equation from Time Trace Data</i> <a href="#">TALK ONLINE</a>	
17:30 – 18:00	<b>Łukasz Stettner</b> (Institute of Mathematics Polish Academy of Sciences) <i>On an approximation of average cost per unit time impulse control of Markov processes</i>		

## Wednesday, July 6th

9:00 – 10:00	Plenary talk (Room A) <b>Małgorzata Peszyńska</b> (Oregon State University) <i>Coupled systems across the scales in the subsurface. Models or data?</i> Chair: Marek Niezgódka		
	Session talks (Room A) <b>Stochastic control and games</b> Chair: Marcin Pitera	Session talks (Room B) <b>PDES in physics and biology</b>	Session talks (Room C) <b>Modeling, analysis and optimization in infinite dimensional dynamics [distributed parameter systems] with applications</b>
10:00 – 10:30	<b>Neofytos Rodosthenous</b> (University College London) <i>Two-sided Singular Control of an Inventory with Unknown Demand Trend</i>	<b>Mikołaj Sierżęga</b> (University of Warsaw) <i>On optimal Harnack bounds for a non-local heat equation</i>	<b>Andrzej Myśliński</b> (Systems Research Institute Polish Academy of Sciences) <i>Topology optimization for static contact in elastoplasticity</i>
10:30 – 11:00	<b>Alessandro Milazzo</b> (Uppsala University) <i>The de Finetti problem with unknown competition</i>	<b>Jacopo Schino</b> (North Carolina State University) <i>Orbital stability of ground states to Schrödinger equations with mass constraints</i>	<b>Andrzej Nowakowski</b> (University of Łódź) <i>Approximate optimality conditions for control of coefficients in parabolic free boundary problem</i>
11:00 – 11:30	Coffee break		
	Session talks (Room A) <b>Stochastic control and games</b> Chair: Neofytos Rodosthenous	Session talks (Room B) <b>PDES in physics and biology</b>	Session talks (Room C) <b>Modeling, analysis and optimization in infinite dimensional dynamics [distributed parameter systems] with applications</b>
11:30 – 12:00	<b>Kristofer Lindensjö</b> (Stockholm University) <i>How to detect a salami slicer: a stochastic controller-and-stopper game with unknown competition</i>	<b>Jarosław Mederski</b> (Institute of Mathematics Polish Academy of Sciences) <i>Normalized ground states of the nonlinear Schrödinger equation with at least mass critical growth</i>	<b>Krzysztof Rutkowski</b> (Cardinal Stefan Wyszyński University in Warsaw) <i>Dynamical system related to a class of primal-dual algorithms for convex optimization</i>
12:00 – 12:30	<b>Jan Palczewski</b> (University of Leeds) <i>Non-zero sum game of exit from a stochastic market</i>	<b>Mario Fuest</b> (Leibniz University Hannover) <i>Finite-time blow-up in chemotaxis systems with a logistic source</i>	<b>Katarzyna Szulc</b> (Systems Research Institute Polish Academy of Sciences) <i>Numerical approximation of a stationary case of hinged-free plate under non-conservative forces</i>
12:30 – 13:00			<b>Jakub Kmec</b> (Palacký University in Olomouc) <i>Is continuum mechanics appropriate for modeling porous media flow?</i>
13:00 – 14:30	Lunch break		
14:30 – 17:30	Guided tours		

## Thursday, July 7th

9:00 – 10:00	Plenary talk (Room A) <b>Lorena Bociu</b> (North Carolina State University) <i>Analysis and Control in Poroelastic Systems with Applications to Biomedicine</i> Chair: Arnd Rösch <a href="#">TALK ONLINE</a>		
	Session talks (Room A) <b>Stochastic control and games</b> Chair: Said Hamadene	Session talks (Room B) <b>Numerics and analysis of optimal control problems with partial differential equations</b>	Session talks (Room C) <b>Inverse problems, Modeling and Analysis for Fractional PDEs</b>
10:00 – 10:30	<b>Maurycy Rzymowski</b> (Nicolaus Copernicus University in Toruń) <i>BSDEs with two optional barriers and extended Dynkin games</i>	<b>Constantin Christof</b> (Technische Universität München) <i>Semismoothness for solution operators of obstacle-type variational inequalities with applications in optimal control</i>	<b>Katarzyna Ryszewska</b> (Warsaw University of Technology) <i>A space-fractional Stefan problem</i>
10:30 – 11:00	<b>Tomasz Klimsiak</b> (Nicolaus Copernicus University in Toruń) <i>Non-semimartingale solutions to reflected BSDEs with applications to non-linear Dynkin games</i>	<b>Luis A. Fernández</b> (University of Cantabria) <i>Optimal control of a Gompertz-type model arising in chemotherapy for brain tumors</i>	<b>Masahiro Yamamoto</b> (The University of Tokyo) <i>Uniqueness for inverse source problem for time-fractional diffusion-wave equation without boundary conditions</i> <a href="#">TALK ONLINE</a>
11:00 – 11:30	Coffee break		
	Session talks (Room A) <b>Stochastic control and games</b> Chair: Tomasz R. Bielecki	Session talks (Room B) <b>Numerics and analysis of optimal control problems with partial differential equations</b>	
11:30 – 12:00	<b>Said Hamadene</b> (Le Mans University) <i>Mean-field Doubly Reflected backward stochastic differential equations</i>	<b>Masoumeh Hashemi</b> (Heidelberg University) <i>Optimal Control of the Kirchhoff Equation</i>	
12:00 – 12:30	<b>Tyrone E. Duncan</b> (University of Kansas) <i>Absolute Continuity for Rosenblatt Measures</i> <a href="#">TALK ONLINE</a>	<b>Dmitriy Leykekhman</b> (University of Connecticut) <i>Numerical Analysis of Sparse Initial Data Identification for Parabolic Problems from point measurements</i>	
12:30 – 13:00	<b>Bożenna Pasik-Duncan</b> (University of Kansas) <i>Stochastic Differential Games with Rosenblatt Processes</i>	<b>Annika Müller</b> (TU Dortmund University) <i>Finite element approximation of optimal control problems arising in data-driven analysis</i>	

13:00 – 14:30	Lunch break	
14:30 – 15:30	Plenary talk (Room A) <b>Michał Sierakowski</b> (IBM) <i>Cloud Native Machine Learning</i> <b>Piotr Biskupski</b> (IBM) <i>We're building the future of quantum together</i> Chair: Radosław Pytlak	
15:30 – 16:00	Coffee break	
	Session talks (Room A) <b>Machine learning based systems for articles classifications</b>	Session talks (Room B) <b>Numerics and analysis of optimal control problems with partial differential equations</b>
16:00 – 16:30	<b>Robert Waszkowski</b> (Military University of Technology, Tecna Ltd) <i>Machine learning based system supporting active learning approach in systematic literature reviews</i>	<b>Arnd Rösch</b> (Universität Duisburg-Essen) <i>Optimal control of a simplified mechanical damage model</i>
16:30 – 17:00	<b>Paweł Cichosz</b> (Warsaw University of Technology) <i>Text representation for classification models in systematic literature reviews</i>	<b>Fredi Troeltzsch</b> (Technische Universität Berlin) <i>On elliptic optimal control problems with control appearing nonlinearly in the state equation</i>
17:00 – 17:30	<b>Bogdan Jastrzębski</b> (Warsaw University of Technology) <i>Deep neural networks applied to text embeddings used in classifications processes</i>	<b>Max Winkler</b> (TU Chemnitz) <i>Finite element methods with boundary concentrated meshes for PDEs with irregular boundary</i>
17:30 – 18:00	<b>Radosław Pytlak</b> (Warsaw University of Technology) <i>Semantic approaches to articles representations used in classification processes</i>	<b>Irwin Yousept</b> (University of Duisburg-Essen) <i>Variational Source Conditions for Tikhonov Regularization with <math>L^p</math>-penalties</i>
19:00 – 23:00	Conference dinner „Zielony Niedźwiedź” Restaurant, Smolna 4	

## Friday, July 8th

9:00 – 10:00	Plenary talk (Room A) <b>Birgit Rudloff</b> (Vienna University of Economics and Business) <i>Time (In)Consistency of multivariate Problems</i> Chair: Łukasz Stettner		
	Session talks (Room A) <b>Modeling in biosystems</b>	Session talks (Room B) <b>Multiple-criteria Analysis and Uncertainty Modelling in Energy Problems</b>	Session talks (Room C) <b>Stochastic control and games</b> Chair: Jan Palczewski
10:00 – 10:30	<b>Dominique Duncan</b> (University of Southern California) <i>Novel mathematical tools to study neurological diseases using multimodal data</i>	<b>Zixuan Zhang</b> (East China University of Science and Technology) <i>Model-based support for harmonization of investment and operation decisions in renewable energy systems</i> <a href="#">TALK ONLINE</a>	<b>Tomasz R. Bielecki</b> (Illinois Institute of Technology) <i>Time-inconsistent Markovian control problems under model uncertainty with application to the mean-variance portfolio selection</i>
10:30 – 11:00	<b>Piotr Regulski</b> (Medical University of Warsaw) <i>VisNow-Medical – A multi-platform modeling system for medical image processing</i> <a href="#">TALK ONLINE</a>	<b>Bingqing Ding</b> (East China University of Science and Technology) <i>Hedging uncertainties in technological learning and exploring attainable goals for conflicting objectives in adopting new technologies</i> <a href="#">TALK ONLINE</a>	<b>Łukasz Kruk</b> (Maria Skłodowska-Curie University) <i>A simple singular stochastic control problem with direction switching cost</i>
11:00 – 11:30	Coffee break		
	Session talks (Room A) <b>Modeling in biosystems</b>	Session talks (Room B) <b>Multiple-criteria Analysis and Uncertainty Modelling in Energy Problems</b>	
11:30 – 12:00	<b>Marek Niezgodka</b> <b>Artur Antoniewicz</b> (Multidisciplinary Hospital Warsaw Międzylesie) <i>A national modelling study of the impact of the COVID-19 pandemic on urological care in Poland</i>	<b>Zbigniew Nahorski</b> (Systems Research Institute Polish Academy of Sciences) <i>Effective handling of uncertain parameters in long-term technology-mix planning models</i> <a href="#">WITH STREAMING</a>	
12:00 – 12:30	<b>Piotr Regulski</b> (Medical University of Warsaw) <i>Coronary Arteries Modelling and Visualization</i> <a href="#">TALK ONLINE</a>	<b>Janusz Granat</b> (Warsaw University of Technology) <i>Multiple Criteria Analysis of Discrete Alternatives: Pairwise-outperformance based Approaches</i> <a href="#">WITH STREAMING</a>	
12:30 – 13:00	Conference closing (Room A)		
13:00 – 14:30	Lunch break		