

THURSDAY JUNE 16th							
TIME	ACTIVITY						
7:30 AM	Breakfast						
	ART lobby						
8:00 AM	Plenary						
	ART 103						
	Mikhail Belkin						
	TBA						
9:00 AM	Coffee Break						
	ART lobby						
	MS Sessions H						
	ART 102	ART 104	ART 108	ART 110	ART 112	ART 114	ART 103
	MS09: Bifurcation & dynamics in biological systems (part VIII)	MS11-V: Early detection & effective control of emerging infectious diseases	MS19: Recent advances in modelling & computation of flow through porous media (part I)	MS23: Sequential decision-making	MS21: Recent advances in numerical methods for scientific computing (part II)	MS16: Multi-scale & immunity modelling (part II)	MS01: Adaptivity in numerical methods for differential equations (part II)
9:30 AM	Tyler Meadows	Juping Ji	Laura Keane	Amir-Massoud Farahmand	Uri Ascher	Mélanie Prague	Jean-Christophe Nave
	<i>Evolution of chemical defenses in microorganisms</i>	<i>Success or failure of nonpharmaceutical interventions on infectious disease mitigation: Modeling the impact of atmospheric conditions</i>	<i>An improved approximation for hydraulic conductivity for pipes of triangular cross-section</i>	<i>PID Accelerated Value Iteration Algorithm</i>	<i>Simulating deformable objects for computer animation</i>	<i>Elicitation of SARS-CoV-2 mechanistic correlates of protection using mechanistic models</i>	<i>Fourier spectral method for transport and fluid problems with arbitrary fine scales</i>
9:55 AM	Jack Hughes	Jude Kong	Dong Liang	Audrey Durand	Avleen Kaur	Xiaoyan Deng	Yves Bourgault
	<i>A mathematical model of discrete attachment to a cellulolytic biofilm using random DEs</i>	<i>Estimation of epidemiological parameters and ascertainment rate from early transmission of COVID-19 across Africa</i>	<i>Efficient Splitting Domain Decomposition Methods for Multicomponent Contamination Flows in Porous Media</i>	<i>Interactive learning for Neurosciences - Between Simulation and Reality</i>	<i>Ultraspherical spectral methods for time-dependent PDEs</i>	<i>Predicting heterogeneous immune memory responses in COVID-19 using a virtual patient cohort</i>	<i>Variable-step deferred correction BDF methods for differential equations</i>
10:20 AM	Qamar Jalil Ahmad Khan	Pouria Ramazi	P. Amy Tsai	Mo Chen	Chandramali Wilegoda Liyange	Joshua Schiffer	Sarah Nataj
	<i>Combining the impact of fear and an Allee effect on the growth of prey in a predator-prey interaction</i>	<i>Accurate long-range forecasting of COVID-19 mortality</i>	<i>Controlling Viscous Fingering Instabilities</i>	<i>Control, Learning, and Hierarchy in RL</i>	<i>Space-time Spectral Collocation Methods for the Magnetohydrodynamics Equations</i>	TBA	<i>Structure--preserving solvers for centrosymmetric systems] {Structure--preserving solvers for centrosymmetric linear systems with applications to spectral methods</i>
10:45 AM	Yana Safonova	Lin Wang	Morris Flynn	Mohammad Ghavamzadeh	Chen Greif	Nathaniel Osgood	François-Michel Boire
	<i>High-throughput profiling of antibody repertoires enables large-scale analysis of adaptive immune responses</i>	TBA	<i>Buoyant convection in heterogeneous porous media</i>	<i>Three Approaches to Handle Uncertainty in Sequential Decision-making</i>	<i>Iterative solution of block-structured sparse linear systems</i>	<i>Assessing the Effectiveness of Maternal Immunization Against Pertussis: An Agent-Based Modeling Approach</i>	<i>Bias Correction in the Least-Squares Monte Carlo Algorithm</i>
11:10 AM	Prize Talk						
	ART 103						
	CAIMS/SCMAI Research Prize						
	Ali Kara						
	<i>Near-Optimality of Finite Memory Approximations for POMDPs</i>						

11:55 AM	Lunch						
	Sun Room						
12:30 PM	Health-a-thon (for those participating)						
	ART 102	ART 104	ART 108	ART 110	ART 112		
	Group #1	Group #2	Group #3	Group #4	Group #5		
	MS SESSIONS I						
	ART 102	ART 104	ART 108	ART 110	ART 112	ART 114	
	MS09: Bifurcations & dynamics in biological systems (part IX)		MS19: Recent advances in modelling & computation of flow through porous media (part II)				
13:30 PM	Liu Yang		Ian Frigaard				
	<i>The Dynamics of the Illegal Poultry Trade Caused by H7N9 Avian Flu Scare on the Transmission of the Disease</i>		<i>Yield stress fluids and sealing of porous channels</i>				
13:55 PM	Stacey Smith?		Michelle Boham				
	<i>Modelling the ability of mass drug administration to interrupt soil-transmitted helminth transmission: Community-based deworming in Kenya as a case study</i>		<i>When an exact formula is not enough: the counter-intuitive nature of gas flow in anisotropic porous media</i>				
14:20 PM	Wenjing Zhang		Kateryna Tretiakova				
	<i>An Investigation of Tuberculosis Progression Revealing the Role of Macrophages Apoptosis via Sensitivity and Bifurcation Analysis</i>		<i>Separable solutions to non-linear anisotropic diffusion equation in elliptic coordinates</i>				
14:45 PM	Coffee break						
	ART LOBBY						
	MS SESSIONS J						
	ART 102	ART 104	ART 108	ART 110	ART 112	ART 114	
	MS09: Bifurcations & dynamics in biological systems (part X)	MS18: Recent advances in mathematical & computational finance (part II)		MS02: Advances in optimization algorithms & applications	MS04: Advances in the efficient numerical solution of PDEs (part II)	MS32: Computational mathematics (part II) - ART 114 preferred, but must be ART 103 if MS24 stays in this slot	
15:15 PM	Shaza Alsibaai	Peter Forsyth		Daniela Lubke	Yunhui He	Alexandra Bunger	
	<i>Modeling Iron Metabolism and Erythropoiesis of Blood Donors</i>	<i>A Stochastic Control Approach to Defined Contribution Plan Decumulation: "The Nastiest, Hardest Problem in Finance"</i>		<i>Convex relaxation of the binary quadratic knapsack problem</i>	<i>Smoothing Analysis of Two Robust Multigrid Methods for Elliptic Optimal Control Problems</i>	<i>A Low-rank Tensor Train Technique for Isogeometric Analysis PDE discretizations</i>	
15:40 PM	Andreas Buttenschoen	Yuying Li		Dominic Huang	Felix Kwok	Alexey Smirnov	

	<i>Spatio-Temporal Heterogeneities in a Mechano-Chemical Model of Collective Cell Migration</i>	<i>Learning optimal stochastic strategies without dynamic programming</i>		<i>A hybrid direct search and model-based derivative-free optimization method with dynamic decision processing and application</i>	<i>Analysis of a Three-Level Variant of Parareal</i>	<i>Sparse-view and Limited-angle CT Image Reconstruction via TV Minimization</i>	
16:05 PM	Sana Jahedi	Dena Firoozi		Monica Cojocaru	Sophie Leger	Hassan Safouhi	
	<i>Targeting stem cells with oncolytic viruses: a modeling approach</i>	<i>Principal-agent mean-field games in renewable energy certificate markets</i>		<i>Two Heuristic Methods for Solving Generalized Nash Equilibrium Problems Using a Novel Penalty Function</i>	<i>Improved Moore-Penrose continuation algorithm for the computation of problems with critical points</i>	<i>Recursive Algorithms for Efficient and Accurate Computation of Incomplete Bessel Functions</i>	
16:30 PM	Eric Foxall	Ruining (Ray) Wu		Warren Hare	Adeleke O. Bankole	Richard Mikael Slevinsky	
	<i>Fixation time of the stochastic rock-paper-scissors model</i>	<i>DGMT: A semidiscretization method for solving high-dimensional parabolic partial differential equations with deep learning</i>		<i>Image Reconstruction: Superiorization versus Regularization</i>	<i>On nonpolynomial bases for nonlinear wave propagation problems with finite elements</i>	<i>Structured spatial isometries between multivariate orthogonal polynomials</i>	
16:55 PM	Plenary						
	ART 103						
	<b>Aleksander Donev</b>						
	<i>Computational methods for complex suspensions</i>						
17:55 PM	Closing						
	ART 103						