

MODRED 2017: Wednesday, January 11

08:50–09:00	Opening remarks		Room: U1
09:00–10:00	A.T. Patera: Parametrized model order reduction for component-to-system synthesis		Room: U1
10:00–10:30	Coffee break		
	Room: U1		Room: U26
10:30–11:00	F. Naets: A-priori element selection and weighting for hyper-reduction in nonlinear structural dynamics	A. Castagnotto: Interpolatory methods for H_∞ model reduction of MIMO systems	
11:00–11:30	M. Salewski: Symmetry reduction without equivariance in reduced order models	P. Goyal: Interpolation-based optimal model reduction for a class of descriptor systems with application to Navier-Stokes equations	
11:30–12:00	C. Kweyu: Reduced basis method for Poisson-Boltzmann equation	M. Hund: Parametrized Sylvester equations in model order reduction	
12:00–13:30	Lunch break		
13:30–14:30	S. Görtz: Reduced order models for aerodynamic applications, loads and MDO		Room: U1
	Room: U1		Room: U26
14:30–15:00	S. Klus: Dynamic mode decomposition and extensions	N. Banagaaya: Sparse MOR for large-scale models with many inputs	
15:00–15:30	A. Sauerbrei: An adaptive sampling strategy for MIMO surrogate models based on merging (Co-)kriging and POD	M. Billaud-Friess: A dynamical model order reduction method for the solution of parameter-dependent dynamical systems	
15:30–16:00	Coffee break		
	Room: U1		Room: U26
16:00–16:30	P. Gelß: SLIM-Decomposition of tensor train operators for nearest-neighbor interaction networks	J. Fehr: ISTEP as an example of nonlinear non-intrusive model order reduction technique	
16:30–17:00	F. Nüske: Variational tensor approach to the rare-event kinetics of macromolecular systems	Y. Yue: Parametric model order reduction for efficient uncertainty quantification in the electro-thermal analysis of nanoelectronic devices	
17:00–17:30	T. von Larcher: Application of a tensor product decomposition method to turbulent data		
18:00–20:00	MOR-WIKI User Meeting		Room O95

MODRED 2017: Thursday, January 12

09:00–10:00	S. Grundel: Data-driven MOR methods for efficient simulation of infrastructure networks	Room: U1
10:00–10:30	Coffee break	
	Room: U1	Room: U70
10:30–11:00	Y. Lu: Interpolation strategy for parametric QBMOR for gas pipeline-networks	M. Opmeer: Decay of singular values for infinite-dimensional control systems
11:00–11:30	P. Mlinarić: Model reduction of network systems by clustering	C. Bertram: Randomized balanced POD for continuous-time MIMO LTI systems
11:30–12:00	B. Liljegren-Sailer: On structure preserving model order reduction for damped wave propagation on networks	S. Werner: Hankel-norm approximation of descriptor systems
12:00–14:00	Lunch break	
14:00–14:30	J. Saak: Replicability, Reproducibility and Reusability for Model Order Reduction (RRR4MOR)	Room: U1
	Room: U1	Room: U7
14:30–15:00	C. Gräßle: POD reduced order modeling for evolution equations utilizing arbitrary finite element discretizations	P. Kürschner: Time- and frequency-limited balanced truncation for large-scale systems
15:00–15:30	E. Gildin: Online adaptive local-global POD-DEIM model reduction for fast simulation of flows in heterogeneous media	I.V. Gosea: Balanced truncation for linear switched systems
15:30–16:00	Coffee break	
	Room: U1	Room: U7
16:00–16:30	J. Heiland: Space-time Galerkin POD for optimal control of Burgers' equation	A. Benaceur: Improving the computational efficiency of a reduced order model for time-dependent non-linear PDEs
16:30–17:00	R. O'Connor: Reduced basis methods for the design of stabilizing feedback controllers	V. Bykov: Singularly perturbed vector fields, model reduction of reacting flow systems
17:00–17:30	J. Bremer: Towards fast optimal control of CO ₂ methanation reactors via POD-DEIM	X. Cheng: Model reduction of second-order electromagnetic swing equations with structural preservation
19:00	Conference Dinner	

MODRED 2017: Friday, January 13

09:00–10:00	H. Sandberg: Structured model reduction of networks of passive systems	Room: U1
10:00–10:30	Coffee break	
	Room: U1	Room: U26
10:30–11:00	C. Himpe: Towards empirical-Gramian-based model reduction for nonlinear DAEs	L. Zhou: A novel POD-based model order reduction at the substructure level for nonlinear structural analysis
11:00–11:30	M. Cruz Varona: Krylov subspace methods for model reduction of MIMO quadratic-bilinear systems	Z. Tomljanović: Damping optimization of parameter dependent mechanical systems by rational interpolation
11:30–12:00	D. Khlopov: Automatic model reduction of differential algebraic systems by proper orthogonal decomposition	S. van Ophem: Parametrized model order reduction for second order systems with a low rank change in the system matrices
12:00–12:10	Closing	Room: U1
12:10	Lunch	