

	Tuesday - 12th September	
18:30 - 19:30	Welcome reception (room 6A)	
	Day 1 (Wednesday 13th September)	
	08:45-9:00	Opening
	09:00-10:00	Plenary Talk 1 (Panajotis Agathoklis : Application of Multi-dimensional (MD) filters in Broadband Beamforming and Light Field Processing), Chair: Anton Kummert
	10:00-10:40	Coffee break
nD system theory and applications, Chair: Eric Rogers	10:40-11:00	Paolo Rapisarda: Discrete Roesser state models from 2D vector-geometric trajectories
	11:00-11:20	Maximilian Schäfer and Rudolf Rabenstein: A Transfer Function Model for 1D Diffusion Processes
	11:20-11:40	Dongdong Zhao, Shi Yan, Shin-Ya Matsushita and Li Xu: Order Reduction for Roesser State-Space Model Based on a Certain System of Equations
	11:40-12:00	Maximilian Schäfer and Rudolf Rabenstein: Calculation of the Transformation Kernels for the Functional Transformation Method
	12:00-12:20	Teresa Azevedo Perdicoulis and Paulo Lopes Dos Santos: Transmission gas pipelines: 2D models simulation
	12:20-12:40	Ivan Gaishun, Michael Dymkov, Anatoly Astrovskii, Krzysztof Gałkowski and Eric Rogers: Stability theory for a class of linear nonnegative multidimensional discrete systems
	12:40-13:00	Beiyi Liu, Guan Gui, Shin-Ya Matsushita and Li Xu: Two-dimensional Zero-Attraction Projection Algorithm for Single Snapshot DOA Estimation
	13:00-14:00	Lunch (room 6A)
Special session: First order models in nD systems theory, Chairs: Eva Zerz and Paula Rocha	14:00-14:20	Jose Carlos Aleixo and Paula Rocha: Roesser model representation of 2D periodic behaviors: the (2,2)- periodic SISO case
	14:20-14:40	Olivier Bachelier and Thomas Cluzeau: Digression on the equivalence between linear 2D discrete repetitive processes and Roesser models
	14:40-15:00	Ronan David, Olivier Bachelier, Nima Yeganefar and Thomas Cluzeau: Asymptotic and Structural Stability for a Linear 2D Discrete Roesser Model
	15:00 -15:20	Fatma Mohamed, Fabrizio Padula, and Lorenzo Ntogramatzidis: Geometric conditions for the existence of solutions of singular multidimensional systems
	15:20-15:40	Eva Zerz and Christian Schilli: Controlled invariance for nonlinear Roesser models
		15:40-16:00
	17:00-20:00	A trip to Górzycowo vineyard and the conference dinner

Day 2 (Thursday 14th September)		
	09:00- 10:00	Plenary Talk 2 (Tom Oomen: Advanced Motion Control: A 2D Perspective), Chair: Eric Rogers
	10:00-10:40	Coffee break
Iterative learning Control, Chair: Tao Liu	10:40-11:00	Xuan Wang, Bing Chu and Eric Rogers: New Results on Higher-Order Iterative Learning Control for Discrete Linear Systems
	11:00-11:20	Pavel Pakshin and Julia Emelianova: Iterative Learning Control of Multi-agent Systems
	11:20-11:40	Błażej Cichy, Krzysztof Gałkowski, Andreas Rauh, Harald Aschemann and Eric Rogers: A Practically Tractable Iterative Learning Control Scheme for a Circular Deformable Mirror
	11:40-12:00	Pavel Pakshin, Julia Emelianova, Mikhail Emelianov, Krzysztof Gałkowski and Eric Rogers: Passivity Based Iterative Learning Control of Differential Systems
	12:00-12:20	Bartłomiej Sulikowski, Krzysztof Gałkowski and Eric Rogers: Iterative Learning Control of a class of ladder circuits represented by descriptor systems
	12:20-12:40	Łukasz Hładowski, Krzysztof Gałkowski and Eric Rogers: Further Results on Dynamic Iterative Learning Control Law Design using Repetitive Process Stability Theory
	12:40-13:00	Damian Kowalów and Maciej Patan: Robust sensor location for parameter estimation in iterative learning control of spatio-temporal systems
	13:00-14:00	Lunch (room 6A)
Control of nD systems, Chair: Krzysztof Gałkowski	14:00- 14:20	Ewa Skubalska-Rafajłowicz: Spatially-organized random projections of images for dimensionality reduction and privacy-preserving classification
	14:20-14:40	Ewaryst Rafajłowicz: Image-driven, model-free control of repetitive processes based on machine learning
	14:40-15:00	Konstantin Avrachenkov, Philippe Jacquet and Jithin Sreedharan: Hamiltonian System Approach to Distributed Spectral Decomposition in Networks
	15:00-15:20	Marcin Boski and Wojciech Paszke: Robust static output feedback control for linear repetitive processes
	15:20-15:40	Ewaryst Rafajłowicz and Wojciech Rafajłowicz: Linear Matrix-State Systems and Their Use for Image-Driven Control
	15:40-16:00	Coffee break
	16:00-18:00	MSSP Editorial Board
	19:00-21:00	Baquet at Palmiarnia (The Palm House)

Day 3 (Friday 15th September)

	09:00- 10:00	Plenary Talk 3 (Tao Liu: Robust two-dimensional control design for industrial batches processes with time-varying uncertainties), Chair: Wojciech Paszke
	10:00-10:40	Coffee break
Signal and Image processing, Chair: Rudolf Rabenstein	10:40-11:00	Arjuna Madanayake, Najath Akram, Soumyajit Mandal, Jifu Liang and Leonid Belostotski: Improving ADC Figure-of-Merit in Wideband Antenna Array Receivers using Multidimensional Space-Time Delta-Sigma Multiport Circuits
	11:00-11:20	Ravi Wijesekara, Chamira Edussooriya, Len Bruton and Panajotis Agathoklis: A Low-Complexity 2-D Spatially-Interpolated FIR Trapezoidal Filter for Enhancing Broadband Spatio-Temporal Plane Waves
	11:20-11:40	Joerg Velten, Daniel Wagner, Lech Kolonko, Kathrin Kalischewski, Stephan Tilgner, Tim Schwerdtfeger and Anton Kummert: Examination of Direct Form vs. WDF Realization of a 2-D Quadrantal Fan Filter in FPGA Hardware
	11:40-12:00	Kathrin Kalischewski, Daniel Wagner, Jörg Velten and Anton Kummert: Activity Recognition for Indoor Movement and Estimation of Travelled Path
	12:00-12:20	Stephan Tilgner, Jörg Velten and Anton Kummert: Object Representation for Fast Trajectory Collision Testing by Means of 2-D Algebraic Conic Sections
	12:20-12:40	Daniel Wagner, Kathrin Kalischewski, Joerg Velten and Anton Kummert: Activity Recognition using Inertial Sensors and a 2-D Convolutional Neural Network
	12:40-13:00	Closing Ceremony
	13:00-14:00	Lunch