MMAR 2019 Lecture Schedule - Compact Form

Monday, 15:10 - 16:10

Marco Polo (Casino) A1L-A, page ?? Optimization of Decentralized Control Systems Lall

Monday, 16:30 - 17:50

Marco Polo (Casino)	Vasco da Gamma (Kalman)	Ferdinand Magellan (Lehar)
A2L-A , page ??	A2L-B , page ??	A2L-C , page ? ?
Stability and Angles Between State	Selection of Training Options for Deep	Model-Based Controller Using
Matrices of Positive Linear Systems	Learning Neural Network Using Genetic	Quasi-Velocities for Some Vehicles
Kaczorek	Algorithm	Herman
	\mathbf{Szymak}	
Extremal Problems for Integral Time Lag	Deep Neural Network Architecture Search	Localization of Workpieces by Robot
Parabolic Systems	Using Network Morphism	Manipulators Using RFID Technology
Kowalewski, Miśkowicz	Grochowski, Kwasigroch,	Thormann, Winkler
	Mikołajczyk	
On asymptotic properties of discrete	Enhanced Process Fault Diagnosis	Cooperative Target Tracking in Elliptical
Volterra equations of convolution type	Through Integrating Neural Networks	Formation
Anh, Babiarz, Czornik,	and Andrews Plot	Ma
Niezabitowski, Siegmund	Wang, Zhang	
Techniques for Verified Reachability	Style Transfer-Based Image Synthesis As	
Analysis of Quasi-Linear	an Efficient Regularization Technique in	
Continuous-Time Systems	Deep Learning	
Rauh, Kersten, Aschemann	Grochowski, Mikołajczyk	

Tuesday, 09:00 - 10:00

Marco Polo (Casino)
B1L-A , page ??
Normal Forms of Nonlinear Control Systems
Respondek

Tuesday, 10:00 - 11:00

Marco Polo (Casino)	Vasco da Gamma (Kalman)	Ferdinand Magellan (Lehar)
B2L-A , page ??	B2L-B , page ??	B2L-C , page ??
Robust and Adaptive Ship Path-Following	Fusion of Gesture and Speech for	A Memetic Algorithm for the Discrete
Control Design with the Full Vessel Model	Increased Accuracy in Human Robot	Scheduling-Location Problem with
Zwierzewicz	Interaction	Unrelated Executors
	Baranwal, Singh, Hellström	Ławrynowicz, Józefczyk
Adaptive, Nonlinear Control of a	The Quality Interaction Function	Cyclic Scheduling of Lots with Setup
Third-Order Duffing–Holmes Type	Deployment for Lean Human-Robot	Times
Chaotic Oscillator	Interaction	$\mathbf{Smutnicki}$
Kabziński, Mosiołek	Bonini, Urru, Echelmeyer	
Adaptive Identification Method for	Achievable Stereo Vision Depth Accuracy	Scheduling Identical Jobs with Linear
Simulation and Control of Glass Melting	with Changing Camera Baseline	Resource Usage Profile to Minimize
Process	Sasiadek, Walker	Schedule Length
Byrski, Drapała		Różycki, Waligóra

Marco Polo (Casino)	Vasco da Gamma (Kalman)	Ferdinand Magellan (Lehar)
B4L-A , page ??	B4L-B , page ??	B4L-C , page ??
Poles and Zeros of Standard and	Robotic Manipulator Path-Planning:	Power System Resilience Using Network
Fractional Positive Stable Linear Systems	Cost-Function Approximation with Fuzzy	Reconfiguration
Sajewski, Kaczorek	Inference System	Ghadage, Bhopale, Bajaria
	Szabó, Gincsainé Szádeczky-Kardo	
An Interpolation Approach to the	Dynamic Trajectory Planning for	A Simple Heuristic Approach for
Integer–Order Approximation of	Autonomous Driving Based on Fluid	Attitude/Altitude Control of a Quadrotor
Fractional–Order Systems	Simulation	with Uncertain Parameters
Casagrande, Viaro	Sułkowski, Bugiel, Izydorczyk	Ailon, Arogeti
Variable-, Fractional-Order Linear MIMO	Trajectory Control of the Wheeled Mobile	On the First Single-Nonlinearity
System Matrix Description	Robots in Dynamic Environment	Seven-Term Memristor-Based Chaotic
Ostalczyk	Zhang, Krasnov, Chepinskiy,	Snap System: a Line Equilibrium and
	Grigoriev, Artemov, Liao, Zhang,	Coexisting Hidden Attractors
	Wang	Ahmad, Srisuchinwong
Expansion of a Solver for Nonlinear	Formation of Two-Wheeled Mobile	Multicriteria Coordination of Flood
Fractional Problems - the Inclusion of	Robots Moving in the Task Space with	Control in Water Reservoir Systems
Time Delays	Static Obstacles - Numerical Verification	Skulimowski
Sowa, Dziedzic	for Bounded Controls	
	Kowalczyk, Kozłowski	
Fractional-Order Difference Basis	Trajectory Tracking of a Tri-wheel Mobile	
Functions a New Modeling Concept for	Robot Using the Castor Wheel's Twist	
Dynamical Systems	Angle	
Gałek, Stanisławski, Rydel,	Beniak, Pyka	
Latawiec, Łukaniszyn		

Tuesday, 15:00 - 16:20

Marco Polo (Casino)	Vasco da Gamma (Kalman)	Ferdinand Magellan (Lehar)
B5L-A, page ??	B5L-B , page ??	B5L-C, page ??
Calculation of Descriptive Statistics by	An Application of the Induced Matrix	Parameter Optimization of Control with
Devices with Low Computational	Norm in the Minimum-Energy Design of	Feedback Linearization for a Model of
Resources for Use in Calibration of V2I	Perfect Control Algorithm	Thermoelectric Processes in Cylindrical
System	Pączko, Hunek	Bodies
Kubiak, Banach, Długosz		Gavrikov, Kostin, Knyazkov, Rauh,
		Aschemann
Techniques to Facilitate the Use of V2I	Relative Degree One and Two Sliding	Optimizing Consumer-Side Electricity
Communication System As Support for	Variables for Multi-Input Discrete-Time	Usage in a Smart Household
Traffic Sign Recognition Algorithms	Systems	${f Taik,Kiss}$
Banach, Długosz	Latosiński, Bartoszewicz	
Camera Model for Lens with Strong	Periodic Regimes of Motion of a Body	Optimization of Traffic Signal Control
Distortion in Automotive Application	with a Moving Internal Mass	Based on Game Theoretical Framework
Lelowicz	Figurina, Knyazkov	Guo, Harmati
	Discrete-Time Design of Model Reference	An Improved Reinforcement Learning
	Learning Control System	Control Strategy for Batch Processes
	Kurniawan, Widiyatmoko,	Zhang, Zhang, Long, Hu
	Bayuwati, Afandi, Suryadi,	
	Rofianingrum	

Wednesday, 09:00 - 10:00

Marco Polo (Casino) C1L-A, page ?? Game Theory and Distributed Control Shamma

Wednesday, 10:00 - 11:00

Vasco da Gamma (Kalman)
C2L-B , page ??
Explicit Interpolating Control of
Unmanned Aerial Vehicle
Bouček, Flídr
Computation Complexity Evaluation of
FastSLAM Algorithm for Unmanned
Ground Vehicles
Al-Tarras, Yacoub, Asfoor, Sharaf

Wednesday, 11:20 - 13:00

Marco Polo (Casino)	Vasco da Gamma (Kalman)	Ferdinand Magellan (Lehar)
C4L-A, page ??	C4L-B, page ??	C4L-C, page ??
Parameter Identification for the	Parametric Identification of PMSM	Integrated Maintenance Decision Making
Fractional Order, State Space Model of	Mathematical Model	Platform for Gantry Cranes in Container
Heat Transfer Process Using	Zawarczynski, Stefanski	Terminal
Atangana-Baleanu Operator		Szpytko, Salgado
Oprzędkiewicz, Mitkowski		
Markov Parameters of the Input-Output	Duality-Based Approach to Identification	Approximation State-Space Model for 2x2
Map for Discrete-Time Order Systems	of Linear Time-Varying Hamiltonian	Hyperbolic Systems with Collocated
with Grunwald-Letnikov h-difference	Systems with RKHS As Data Descriptors	Boundary Inputs
operator	Roman-Flores, Rapisarda,	Bartecki
Pawluszewicz, Koszewnik	Montesdeoca	
A Digital PID Controller Based on	Optimization Techniques for the Design	Simulation Platform for Wireless Data
Grunwald-Letnikov Fractional-,	of Identification Procedures for the	Communication Using a New Signal
Variable-Order Operator	Electro-Chemical Dynamics of	Reconstruction Method
Oziabło, Mozyrska, Wyrwas	High-Temperature Fuel Cells	Majewski, Hunek
	Frenkel, Rauh, Kersten, Aschemann	
Nonlinear Fractional-Order Impedance	Identification of Multichannel Nonlinear	Modelling of a Highly-Viscous,
Control for Knee Rehabilitation	Systems Excited by Realisations of	Non-Isothermal Fluid with Free Surface
Pomprapa, Kastouri, Liu, Leonhardt	Mutivariate Orthogonal Multisine	Using Model Reduction
	Random Time-Series	Skeli, Harder, Weidemann, Panreck
	Figwer	
Digital and Analog Design of Fractional	FEM Modeling and Parameter	Games with Resources and Their Use in
PD Controller for a Servo System	Identification of Thermoelectrical	Modeling Control Processes in
Bauer, Baranowski, Kapoulea,	Processes in Cylindrical Bodies	Heterogeneous Populations
Psychalinos	Knyazkov, Kostin, Gavrikov,	Swierniak, Krzeslak, Borys
	Aschemann, Rauh	

Marco Polo (Casino)	Vasco da Gamma (Kalman)	Ferdinand Magellan (Lehar)
D1L-A , page ??	D1L-B , page ??	D1L-C , page ? ?
Static Camera Calibration for Advanced	Modeling of Switching-Mode Nonlinear	Automotive Ethernet Applications Using
Driver Assistance System Used in Trucks	System by Exponentially Weighted	Scalable Service-Oriented Middleware
Dlugosz, Dworakowski, Suliga	Aggregation	Over IP: Service Discovery
	Wachel, Śliwiński, Hasiewicz	Nichitelea, Unguritu
The Application of Virtual Logic Models	Experimental Validation of a Nonlinear	Development of an Agent-Based System
to Simulate Real Environment for Testing	Model for Controlled Thermoelectric	for Decentralized Control of District
Advanced Driving-Assistance Systems	Processes in Cylindrical Bodies	Energy Systems
Pikus, Was	Gavrikov, Kostin, Knyazkov, Rauh,	Fritz, Xhonneux, Müller
	Aschemann	
Lean Systems Engineering for Automotive	Self-Tuning Control for Nonlinear	Software Framework for Fast Image
Perception Systems	Systems Using a State-Dependent Riccati	Retrieval
Buczacki, Cieślar, Oppenheim,	Equation Approach	Grycuk, Scherer
Stachnik	Wache, Aschemann	
Selected Methods for Increasing the	Model-Based Nonlinear Control of the	Process Fault Detection and
Accuracy of Vehicle Lights Detection	Cathode Pressure of a PEM Fuel Cell	Reconstruction by Principal Component
Bogacki, Długosz	System Using a VTG	Analysis
	Schitz, Aschemann	$\mathbf{Qi}, \mathbf{Zhang}$
	Thursday, 10:40 - 12:00	
Marco Polo (Casino)	Vasco da Gamma (Kalman)	Ferdinand Magellan (Lehar)
D2L-A , page ??	D2L-B , page ??	D2L-C , page ??
Performance of Lidar Object Detection	Stress Analysis Recorded in the EEG	Kinematic Predictive Imaging Technique
Deep Learning Architectures Based on	Signal Based on Mathematical Markers	for Telerobotic Surgery with Time Delay
Artificially Generated Point Cloud Data	żołubak	Using Model Predictive Control
from CARLA Simulator		Ladoiye, Necsulescu, Sasiadek
Dworak, Ciepiela, Derbisz, Izzat,		
Komorkiewicz, Wójcik		
Uncertainty Propagation for Vehicle	Embedded Heart Rate Analysis Based on	Social Robot in Diagnosis of Autism

Sound Sensing Rosół, Więckowski Among Preschool Children

Arent, Kruk-Lasocka, Niemiec,

Szczepanowski

Development of a High-Efficiency

Pitch/Roll Inertial Measurement Unit

Based on a Low-Cost Accelerometer and

Gyroscope Sensors

Okulski, Ławryńczuk

Features Matching Based Merging of 3D

Maps in Multi-Robot Systems

Drwięga

Martowicz, Gallina, Karpiel A Generic Validation Scheme for Soft Real-Time Communication with Real-Time Capable Automotive Radar WebSocket and WebRTC Protocols Sensor Models Integrated Into an Performance Analysis for Web-Based Autonomous Driving Simulator Control Loops Karla, Tarnawski Full State Proportional Controller for Remote Receiver Control in MPTCP Adaptive Cruise Control System Networks in Uncertain Operating Conditions Ignaciuk, Morawski

Detections in Experimentally Validated

Radar Model for Automotive Application

Jasiński

Długosz, Zhang