ICSE 2015 - DAY 1 Tuesday 08/09/2015

09:00-10:00	Coffee/Tea - Registration		
10:00 - 10:20	Opening Ceremony		
	Plenary talk I		
	Dr Silvio Simani		
10:20 - 11:20	Department of Engineering, University of Ferrara, Italy		
	Advanced Issues of Wind Turbine Modelling and Control		
11:20 - 11:50	Coffee/Tea		
	Paper Session 1 – Control Theor	/ l	
2:45	Geometric nonlinear of the control moment gyroscope inverted pendulum	Yawo Amengonu , Yogendra Kakad, Eziani Adake	
. 11:55 - 12	A model order reduction technique for bilinearised nonlinear models	Oluwaleke Agbaje, Malgorzata Sumislawska, Keith Burnham	
io	Paper Session 2 – Heating/Air Conditioning Systems		
Parallel Sessions 11:55 - 12:45	Energy efficient control solutions for HVAC systems	Aleksandra Oswiecimska, Jason Hibbs, Ivan Zajic, Keith Burnham	
Pa	Application and Comparison of Temperature Control Strategies to a Heating Element Model	Cihan Turhan, Silvio Simani, Ivan Zajic, Gulden Gokcen	
12:45 - 13:50	Lunch		
	Paper Session 3 – Robotic Syste	ms	
0	A Method of Identifying and Adapting to Rigidly Grasped Loads for Space Robots	Douglas Isenberg	
Parallel Sessions 13:50 - 15:30	Review of Autonomous Navigation for Indoor Aerial Robots within a Nuclear Decommissioning Context	Thomas Burrell, Stephen D. Monk, Allahyar Montazeri, C. James Taylor	
essions 1	Nonholonomic Kinematic Optimal Control of Wheeled Mobile Robots	Yawo Amengonu, Yogendra Kakad, Eziani Adake	
rallel S	Detection and Implementation Autonomous Target Tracking with a Quadrotor AR.Drone	Kamel Boudjit	
Pai	Paper Session 4 – Fault Tolerant Systems		
	Fault–Tolerant Control of Offshore Wind Farm Installations via Adaptive Nonlinear Filters	Silvio Simani , Saverio Farsoni, Paolo Castaldi,	

	Coupling Shaft Condition Monitoring System Using Recursive Identification Algorithms	Ioannis Souflas, Antonios Pezouvanis, Kambiz Ebrahimi
	Optimised sensor placement strategies to reduce False Alarms in avionic units	Samir Khan
	Design of a fault isolation observer for a fuel cell stack system	Malgorzata Sumislawska
15:30 - 15:50	Coffee/Tea	
	Paper Session 5 – Drilling Tool Control	
Parallel Sessions 15:50- 17:05	Control of a Rotary Steerable System Directional Drilling Tool Roll-Stabilised Control Unit	Hamid Alturbeh, James Whidborne, Patick Luk, Martin Bayliss
15 15:5	Stick-Slip Control and Optimization of Rate of Penetration in Directional Drilling	Ita Bassey , Olivier Haas
Session	Application of LQG Control to Attitude Control of Directional Drilling	Martin Bayliss , Isonguyo Inyang, James Whidborne
<u> </u>	Paper Session 6 – Signal Processing and Applications	
Paral	An Optimal Discrete-Time Signal Processing in a Time Domain	Oleksii Sergeev- Horchynskyi
	Dualization Methods for Obstacle-Avoidance in Path Planning	Rushen Patel , Paul Goulart, Arthur Richards
	An approach to drift removal from MARG-based estimated velocity	Krzysztof Brzostowski
18:00 - 22:00	Evening reception – Whitefriar	S

ICSE 2015 - DAY 2 Wednesday 09/09/2015

00.00 00.20	Coffee/Tee Besistantian		
09:00 - 09:30	Coffee/Tea - Registration Plenary talk II Prof Allen Stubberud Department of Electrical Engineering and Computer Science, University of California, Irvine, USA My Career Path-Power to Circuits to Analogue Computers to Control to Estimation		
09:30 - 10:30			
	Paper Session 7 – Control Theor	aper Session 7 – Control Theory II	
11:25	Estimation For Target Tracking Using A Control Theoretic Approach – Part 3	Stephen Stubberud, Kathleen Kramer, Arthur Teranishi	
Parallel Sessions 10:35- 11:25	A Dynamic System Matching Technique - A State Space Formulation	Peter Stubberud, Stephen C. Stubberud, Allen R. Stubberud,	
essi	Paper Session 8 – Evolutionary Algorithms		
Parallel S	Evolutionary algorithm for minmax regret flow-shop problem	Michał Ćwik, Jerzy Jozefczyk	
_	Comparative Performance of Genetic Algorithm, Simulated Annealing and Ant Colony Optimisation in solving the Jobshop Scheduling Problem	Zhonghua Shen, Leonid Smalov	
11:25 -11:45	Coffee/Tea		
	Paper Session 9 – PICASSOS Research Project		
	Overview of the PICASSOS Research Project	John Botham	
:45-13:25	Translation from SysML to Simulink/Stateflow	Vijay Pasupuleti , Gunwant Dhadyalla	
ssions 11	Measurement and Assessment for Automotive Improvement	Antony Powell , John Murdoch	
Parallel Sessions 11:45-13:25	The PICASSOS Research Project Summary	John Botham	
P	Paper Session 10 – Transportation Systems		
	Challenges facing the development of autonomous vehicles	Alex Gilbert	

	Development of an advanced fuel consumption management system to optimize electrical energy using fuzzy logic control technique	Alkiviadis Boulos, Keith Burnham
	Implementing aftermarket Controller Area Network-based diagnostics with inexpensive tools	Vincent Ersanilli
	Seamless Interchangeability – New Rail Concept	Keith Burnham, James Trollope, Mateusz Borowski, Rafal Machon
13:25 - 14:30	Lunch	
	Plenary talk III	
	Dr Phil Barber	
14:30 - 15:30	Vehicle Capability Research,	
	Jaguar and Land Rover Research, Coventry, UK	
	Control Systems of Driven Vehicles	
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15:30 - 15:50	Coffee/Tea	
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	Coffee/Tea Discussion Session 11 – Automotive S	
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ssions 15:50 - 17:05	Coffee/Tea Discussion Session 11 – Automotive S To be confirmed To be confirmed To be confirmed	Systems
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ssions 15:50 - 17:05	Coffee/Tea Discussion Session 11 – Automotive S To be confirmed To be confirmed Discussion Session 12 – Mixed To Control and Measurement of Low Flow and Medical Devices	pics Douglas Clarkson
ssions 15:50 - 17:05	Coffee/Tea Discussion Session 11 – Automotive S To be confirmed To be confirmed Discussion Session 12 – Mixed To Control and Measurement of Low Flow and Medical Devices Control of Railway Systems	pics Douglas Clarkson Keith Burnham To be confirmed

ICSE 2015 - DAY 3 Thursday 10/09/2015

09:00-09:30	Coffee/Tea - Registration		
09.00-09.30	Paper Session 13 – Control Theor	w III	
	PI Regulation Control of a Fluid Flow Model Governed by Hyperbolic Partial Differential Equations	Ngoc Tu Trinh , Vincent Andrieu, Cheng-Zhong Xu	
	Review of model order reduction techniques for linear and nonlinear systems	Toheed Aizad, Malgorzata Sumislawska, Keith Burnham	
0 – 11:10	Estimation of Continuous-time Fractional Order Nonlinear Models	Walid Allafi, Ivan Zajic	
Parallel Sessions 09:30 – 11:10	Stability of neutral systems with infinite delays	Iyai Davies , Olivier Haas	
ess	Paper Session 14 – Adaptive Syste	ems	
allel S	Admissibility Analysis of Singular Time-delay Systems via Delta Operator Approach	Yukang Cui, Zhiguang Feng	
Par	Review of a model free adaptive extremum seeking control for maximum point tracking	Othman George Maganga, Malgorzata Sumislawska , Keith Burnham	
	Nonlinear control of industrial systems via pole assignment assignment	Zankhana Thakar	
	Developing a Parallel Simulation Model for Improving Manufacturing System Performance	Ahmed Allaith, Ammar Albazi	
11:10 - 11:30	Coffee/Tea		
	Paper Session 15 – Automotive Systems		
	Survey of semi-automatic transmission gear ratio and shift map strategies	Adama Fofana , Vincent Ersanilli, Olivier Haas, Keith Burnham	
3:10	Modelling Autonomous Vehicle Overtaking Manueuver with SCADE	Olivier Haas	
1:30 - 1	Data driven approaches for remaining useful life estimation of bearings	Navneesh Phillip, Malgorzata Sumislawska	
Parallel Sessions 11:30 - 13:10	Battery State Detection	Ivan Zajic	
S G	Paper Session 16 – Control Applications		
Paralle	Research and Teaching using a Hydraulically-Actuated Nuclear Decommissioning Robot	Craig West, Thomas Burrell, Allahyar Montazeri, Stephen Monk, C. James Taylor	
	Approaches for Estimating Cluster Population	Laxmi Gewali, Sanjeev KC, and Henry Selvaraj	

	Risk Management Process Model for Dynamic Global Production Networks	Ali Niknejad, Dobrila Petrovic
	Discretization of Single-Input-Single-Output Bilinear Systems with Equivalent Poles Loci Technique	Lukasz Gadek
13:10	Lunch & Conference Close	
14:00	Farewell Party - Whitefriars	