4th Workshop on Mathematical Aspects of Network Synthesis

PROGRAMME

Wednesday 21 September 2016

Lectures will be held in Lecture Room 2, Department of Engineering, Trumpington St

9:15	Registration and coffee	Lecture Room 4
		CHAIR: Keith Glover
10:00	**Malcolm Smith**	*A new look at the Ladenheim catalogue*
	(University of Cambridge)	*(In Memoriam R. Kalman)*

11:00 Coffee (Lecture Room 4)

		CHAIR: Rodolphe Sepulchre
11:30	**Arjan Van der Schaft**	*Towards nonlinear network synthesis*
	(University of Groningen)	
12:00	**Venkat Chandrasekaran**	*Finding Planted Subgraphs using the Schur-Horn Relaxation*
	(California Institute of Technology)	

12:30 Lunch (Lecture Room 4)

		CHAIR: Masaaki Kanno
13:45	**David Limebeer**	*Passive Networks in the Control of Aeroelastic Phenomena in Long-Span Suspension Bridges*
	(University of Oxford)	
14:15	**Jason Jiang**	*Mechanical Network Synthesis of Biquadratic and Bicubic Impedances*
	(University of Bristol)	
14:45	**Timothy Hughes**	*Behavioral network synthesis. Part I: passivity.*
	(University of Cambridge)	

15.15 Tea (Lecture Room 4)

		CHAIR: Fulvio Forni
15:45	Group photograph	
16:00	**Nicos Karcanias**	*Passive Network Redesign and Implicit Network Descriptions*
	(City University, London)	
16:30	**Alessandro Morelli**	*Group action, equivalence and realisation in electrical networks*
	(University of Cambridge)	
17:00	CLOSE	

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Thursday 22 September 2016

Lectures will be held in Lecture Room 2, Department of Engineering, Trumpington St

9:30	Coffee	Lecture Room 4

CHAIR: Malcolm Smith

10:00	**Paul Fuhrmann**	*Control and Interpolation*
	(Ben Gurion University)	*(In Memoriam U. Helmke)*

11:00 Coffee (Lecture Room 4)

CHAIR: Karl Åström

11:30	**Patrick Dewilde**	*Between inner-outer and spectral factorization*
	(Technical University of Munich)	
12:00	**Rodolphe Sepulchre**	*Localised network behaviours*
	(University of Cambridge)	

12:30 Lunch (Lecture Room 4)

CHAIR: Glenn Vinnicombe

13:45	**Fabien Seyfert**	*Analytical Techniques for Identification and Design of*
	(INRIA, France)	*Microwave Filters*
14:15	**Michael Chen**	*Realization of Biquadratic Impedances as Five-Element Bridge*
	(University of Hong Kong)	*Networks*
14:45	**Paolo Rapisarda**	*From data to state model via duality*
	(University of Southampton)	

15:15 Tea (Lecture Room 4)

CHAIR: Malcolm Smith

15:45	**Richard Pates**	*Decomposing Analysis and Synthesis Problems in Electrical*
	(University of Lund)	*Networks*
16:15	**Timothy Hughes**	*Behavioral network synthesis. Part II: reciprocity.*
	(University of Cambridge)	
16:45	Close	