Workshop Programme (Draft)

Advanced FDI/FTC for the future EC-FP

Location: Mercator Haus, University of Duisburg-Essen, 47057 Duisburg, Germany
Time: the 9th of March (Mo.), 2009, 8:30 – 17:00 o'clock

Time	Action	Speaker
8:30 - 9:30	Greeting	Dr. Konstantellos (EC)
	Issues Emerging from 30 Years of Research on FDI/FTC	Prof. R. Patton (UK)
9:30 - 10:45	**Advanced FDI and relevant methods**	
	Sliding mode control and FDI/FTC	Prof. Edwards (University of Leicester)
	FDI and fault estimation of nonlinear systems using multiple models	Prof. Maquin (Nancy-Université, CNRS)
	FDI and Distributed Estimation	Prof. Stankovic (University of Belgrade)
	Actuators, Monitoring and Fault Detection for Fault Tolerant Control	Dr. Dixon (Loughborough University)
	FDI/FTC for Stochastic Distribution Systems	Prof. Wang (University of Manchester)
	Robust FDI/FTC using set-membership methods	Prof. Puig (UPC)

	Discussion (end 10:45)	
10:45 - 11:00	Coffee break	
11:00 - 11:30	Fault Tolerant Control in Human Centred Aeronautic Automation	H. Butz (Airbus Deutschland GmbH)
11:30 - 12:30	**Fault tolerant and safe systems**	
	Design for dependable operation, enhanced availability and safety	Prof. Blanke (Technical University of Denmark)
	Fault tolerant embedded systems	Prof. Colnaric (Uni. Maribor)
	FDI/FTC for aerospace systems	Prof. Zholghadri and Prof. Henry (CNRS – Université de Bordeaux)
	Future technological needs for FDI/FTC/HMS for aerospace systems	Dr. Marcos (DEIMOS-SPACE S.L.)
	FDI/FTC of continuous and discrete event systems	Y. Nke (Ruhr-Universität Bochum)
	Discussion (end 12:30)	
12:30 - 13:15	Lunch	
13:15 - 13:45	Co-design of safe networked control systems	Prof. Sauter (Nancy-Université, CNRS)
13:45 - 15:00	**Advanced fault tolerant control of complex systems**	
	Set-point reconfiguration strategies for fault tolerant NCS	Prof. Casavola (Universita' della Calabria)
	Advanced FTC technology	Prof. Stoustrup (Aalborg University)
	Development and Application of Advanced Control Design Techniques for Challenging Dynamic Processes	Prof. Simani (University of Ferrara)
	Integrated approach to design dependable complex control systems	Prof. Cocquempot (Unitersité de Lille)
	Analytical and Soft Computing-Based	Prof. Witczak (University of Zielona

	Strategies for Fault-Tolerant Control of Non-linear Systems	Gora)
	Performance and reliability of active fault tolerant control schemes	Prof. Kinnaert (Université Libre de Bruxelles)
	Discussion (end 15:00)	
15:00 - 15:15	Coffee break	
15:15 - 15:45	FDI/FTC in the chemical industry: today and tomorrow	Dr. Zhang (BASF, Competence centre of automation technology)
15:45 - 16:45	**Advanced data-driven methods and applications**	
	Data Driven Fault Tolerant Control	Prof. Verhaegen (Delft Center for Systems and Control)
	Diagnosis without a priori model: how to use Principal Component Analysis?	Prof. Ragot (Nancy-Université, CNRS)
	Application of FDI/FTC technology in the process industry	Prof. Jämsä-Jounela (TKK)
	Diagnosis of distributed systems. Application to localisation	Prof. Lesecq (GIPSA-LAG, Université Joseph Fourier)
	Integration of data-driven and model based diagnosis techniques	Prof. Ding (UDE)
	Discussion (end 16:45)	
16:45 - 17:00	**Summary**	

Last Updated on Thursday, 26 February 2009 11:51

University Duisburg - Essen
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