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Co-Chair: Theilliol, Didier	Univ. of Lorraine
Organizer: Theilliol, Didier	Univ. of Lorraine
Organizer: Witczak, Marcin	Univ. of Zielona Gora
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Jiang, Bin	Univ. Lille, CRISTAL
	NUAA
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Liang, Bin	Tsinghua Univ

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perez, ramon	UPC (Univ. Pol. De Catalunya)
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Hamelin, Frederic	Univ. of Lorraine

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Lopez, Rodrigo	IMT Inst. for Advanced Studies, Lucca
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Ding, Kai	TU Dresden
Morozov, Andrey	TU Dresden
Janschek, Klaus	TU Dresden
Braun, Joel	Siemens Healthcare GmbH, Tech. Innovation Mechatronics And
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Co-Chair: Franze', Giuseppe'	Univ. Degli Studi Della Calabria
Organizer: Simani, Silvio	Univ. of Ferrara
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Pilloni, Alessandro	DIEE-Univ. of Cagliari
Pisano, Alessandro	Univ. Di Cagliari
Usai, Elio	Univ. Degli Studi Di Cagliari
Marjanovic, Aleksandra	Univ. of Belgrade, School of Electrical Engineering
Vujnovic, Sanja	School of Electrical Engineering, Univ. of Belgrade
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Venturini, Mauro	Univ. Degli Studi Di Ferrara
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Fedele, Giuseppe	Univ. of Calabria
Franze', Giuseppe'	Univ. Degli Studi Della Calabria
Manna, Cristina	Univ. of Calabria
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Gauterin, Eckhard	Univ. of Applied Sciences Berlin (HTW)
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Khlif Bouassida, Manel	Ec. Centrale De Lille
Toguyeni, Armand	Ec. Centrale De Lille

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Chair: perez, ramon	UPC (Univ. Pol. De Catalunya)
Co-Chair: Sanz, Gerard	UPC
Organizer: perez, ramon	UPC (Univ. Pol. De Catalunya)
Organizer: Sanz, Gerard	UPC
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Blesa, Joaquim	Inst. De Robòtica I Informàtica Industrial (CSIC-UPC)
Cugueró Escofet, Pep	Univ. Pol. De Catalunya
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Tornil-Sin, Sebastian	IRI-CSIC
Fernandez-Canti, Rosa M.	UPC
Blesa, Joaquim	Inst. De Robòtica I Informàtica Industrial (CSIC-UPC)
Puig, Vicenç	Univ. Pol. De Catalunya (UPC)
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Wyczółkowski, Ryszard	Silesian Univ. of Tech
Ciupke, Krzysztof	Silesian Univ. of Tech
Przystalka, Piotr	Silesian Univ. of Tech
Tomasik, Piotr	Silesian Univ. of Tech
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Wang, Zhenhua	Harbin Inst. of Tech
Theilliol, Didier	Univ. of Lorraine
shen, yi	Harbin Inst. of Tech
Rodrigues, Mickael	Univ. CLAUDE BERNARD LYON 1

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Rosa, Paulo Andre Nobre	Inst. for Systems and Robotics - Inst. Superior
Kerr, Murray Lawrence	DEIMOS Space SLU
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Recupero, Cristina	Elecnor Deimos Space
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Lussier, Benjamin	Univ. of Tech. of Compiègne
Fantoni, Isabelle	Univ. De Tech. De Compiègne
shraim, hassan	Consulting Company
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Wang, Ye	Univ. Pol. De Catalonia
Puig, Vicenç	Univ. Pol. De Catalunya (UPC)

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Angelov, Jorg	Tech. Univ. München
Holzappel, Florian	Tech. Univ. München

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Chair: Nejari, Fatiha	Univ. Pol. De Catalunya
Co-Chair: Pulido, Belarmino	Univ. De Valladolid

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Shafiee, Masoud	Amirkabir Univ. of Tech
Puig, Vicenç	Univ. Pol. De Catalunya (UPC)

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atitallah, manel	ENIG
rafika, elharabi	MACS-ENIG

Abdelkrim, Mohamed Naceur	ENIG
09:40-10:00	ThA3.3
<i>Precomputable Kalman-Based Filter for Markov Jump Linear Systems</i> , pp. 393-398.	
de Saporta, Benoite	Univ. Montpellier
Costa, Eduardo F.	Univ. De São Paulo
10:00-10:20	ThA3.4
<i>Structural Analysis for Robust Diagnosis Via Kalman Filters</i> , pp. 399-406.	
Jarmolowitz, Fabian	Robert Bosch GmbH
Fischer, Alexander	Robert Bosch GmbH
10:20-10:40	ThA3.5
<i>Performance-Based Design of PI Observers for Fault Diagnosis in LTI Systems under Gaussian Noises</i> , pp. 407-412.	
Sales-Setién, Ester	Univ. Jaume I De Castelló
Peñarrocha, Ignacio	Univ. Jaume I
Dolz, Daniel	Univ. Jaume I, Castelló
Sanchis, Roberto	Univ. Jaume I

ThP5	Sala d'actes
"From Fault Diagnosis to Reconfigurable Control: A Unified Concept" Jan Lunze (Plenary Session)	
Chair: Blanke, Mogens	DTU
11:30-12:30	ThP5.1
<i>From Fault Diagnosis to Reconfigurable Control: A Unified Concept</i> , pp. 413-421.	
Lunze, Jan	Ruhr-Univ. Bochum

ThB1	S01
Monitoring, Fault Detection and Supervision for Water System Management (Invited Session)	
Chair: Blesa, Joaquim	Inst. De Robòtica I Informàtica Industrial (CSIC-UPC)
Co-Chair: Verde, Cristina	Inst. De Ingenieria, UNAM
Organizer: Blesa, Joaquim	Inst. De Robòtica I Informàtica Industrial (CSIC-UPC)
Organizer: Duviella, Eric	Ec. Des Mines De Douai
14:00-14:20	ThB1.1
<i>Locating Leaks by Using the Step Response of a Pipeline (I)</i> , pp. 422-427.	
Verde, Cristina	Inst. De Ingenieria, UNAM
Torres, Lizeth	UNAM
Rentería, Flor Denisse	Univ. Nacional Autónoma De México
14:20-14:40	ThB1.2
<i>Application of a Novel Leakage Detection Framework for Municipal Water Supply on AAU Water Supply Lab (I)</i> , pp. 428-433.	
Jensen, Tom Nørgaard	Section for Automation & Control, Aalborg Univ
Kallesøe, Carsten Skovmose	Grundfos
14:40-15:00	ThB1.3
<i>Sensor Placement for Leak Monitoring in Drinking Water Networks Combining Clustering Techniques and a Semi-Exhaustive Search (I)</i> , pp. 434-439.	
Sarrate, Ramon	Univ. Pol. De Catalunya
Blesa, Joaquim	Inst. De Robòtica I Informàtica Industrial (CSIC-UPC)
Nejjari, Fatiha	Univ. Pol. De Catalunya

15:00-15:20	ThB1.4
<i>Boundary PDE-Based Observer for Leakage Detection in Pressurized Pipes (I)</i> , pp. 440-445.	
Idellette Judith, HERMINE	Univ. Lille 1
SOM	
Cocquempot, Vincent	Lille 1 Univ
Aitouche, Abdel	CRISTAL/HEI
15:20-15:40	ThB1.5
<i>Prognosis of Quality Sensors in the Barcelona Drinking Water Network (I)</i> , pp. 446-451.	
García Valverde, Diego	UPC
Creus, Ramon	AGBAR
Minoves, Meritxell	AGBAR
Pardo, Xavier	AGBAR
Quevedo, Joseba	Tech. Univ. of Catalonia
Puig, Vicenç	Univ. Pol. De Catalunya (UPC)
15:40-16:00	ThB1.6
<i>Optimal Sensor Location for Overland Flow Network Monitoring (I)</i> , pp. 452-457.	
NGUYEN, Van Tri	Grenoble Inst. of Tech. (Grenoble INP), Gipsa-Lab
Georges, Didier	Grenoble Inst. of Tech
Besancon, Gildas	Ense3 - Grenoble INP

ThB2	S04
Set-Membership-Based Techniques for FDI & FTC (Invited Session)	
Chair: Combastel, Christophe	Ec. ENSEA
Co-Chair: Travé-Massuyès, Louise	CNRS
Organizer: Raïssi, Tarek	Conservatoire National Des Arts Et Métiers
Organizer: Combastel, Christophe	Univ. of Bordeaux
14:00-14:20	ThB2.1
<i>Model-Based Prognosis Algorithms with Uncertainty Propagation: Application to Fatigue Crack Growth (I)</i> , pp. 458-465.	
Robinson, Elinirina Iréna	ONERA - the French Aerospace Lab
Marzat, Julien	ONERA - the French Aerospace Lab
Raïssi, Tarek	Conservatoire National Des Arts Et Métiers
14:20-14:40	ThB2.2
<i>Interval Methods for Variable-Structure Control of Dynamic Systems with State Constraints (I)</i> , pp. 466-471.	
Rauh, Andreas	Univ. of Rostock
Senkel, Luise	Univ. of Rostock, Chair of Mechatronics
Aschemann, Harald	Univ. of Rostock
14:40-15:00	ThB2.3
<i>Set-Membership Functional Diagnosability: Definitions and Analysis (I)</i> , pp. 472-477.	
Jauberthie, Carine	LAAS-CNRS
Verdière, Nathalie	IUT Du Havre - Caucriauville-Place Robert Schuman
Travé-Massuyès, Louise	CNRS
15:00-15:20	ThB2.4
<i>Guaranteed State Estimation and Fault Detection Based on Zonotopes for Differential-Algebraic-Equation Systems</i>	

(I), pp. 478-484.

Wang, Ye	Univ. Pol. De Catalonia
Puig, Vicenç	Univ. Pol. De Catalunya (UPC)
Cembrano, Gabriela	UPC
Alamo, Teodoro	Univ. De Sevilla

15:20-15:40 ThB2.5

Multiobjective Interval Observer Via LMI Techniques for Fault Detection (I), pp. 485-490.

Ellero, Nicolas	Univ. De Bordeaux, Lab. IMS
Gucik-Derigny, David	Univ. De Bordeaux, Lab. IMS
Henry, David	Univ. Bordeaux I

ThB3 S02
Fault Diagnosis 2 (Regular Session)

Chair: Pulido, Belarmino	Univ. De Valladolid
Co-Chair: Jung, Daniel	Linköping Univ

14:00-14:20 ThB3.1

From Structural Analysis to Observer-Based Residual Generation for Fault Detection, pp. 491-498.

Lunze, Jan	Ruhr-Univ. Bochum
Pröll, Sebastian	Robert Bosch GmbH
Jarmolowitz, Fabian	Robert Bosch GmbH

14:20-14:40 ThB3.2

Faster and More Accurate FDI for Hybrid Systems Using Hybrid Possible Conflicts, pp. 499-504.

Bregon, Anibal	Univ. of Valladolid
Alonso, Carlos	Univ. De Valladolid
Pulido, Belarmino	Univ. De Valladolid

14:40-15:00 ThB3.3

Integration of Techniques and Alarm Sequences for Fault Detection and Diagnosis, pp. 505-510.

Agudelo, Carlos	Ec. Inst. Colombiano Del Petroleo
Morant, Francisco	UPV
Quiles, Eduardo	UPV
Garcia, Emilio	UPV

15:00-15:20 ThB3.4

Active Fault Detection Based on a Statistical Test, pp. 511-518.

Sekunda, André	Tech. Univ. of Denmark
Niemann, Henrik	Tech. Univ. of Denmark
Poulsen, Niels Kjølstad	Tech. Univ. of Denmark

15:20-15:40 ThB3.5

A Generalized Fault Isolability Matrix for Improved Fault Diagnosability Analysis, pp. 519-524.

Jung, Daniel	Linköping Univ
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15:40-16:00 ThB3.6

Accounting for Modelling Errors in Model-Based Diagnosis by Using Gaussian Process Models, pp. 525-530.

Dolenc, Bostjan	Jozef Stefan Inst
Stepancic, Martin	Jozef Stefan Inst
Juričić, Đani	Jožef Stefan Inst
Kocijan, Jus	Jozef Stefan Inst
Pianese, Cesare	Univ. of Salerno
Marra, Dario	Dept of Industrial Engineering, Univ. of Salerno

ThC1 S01
Energy Conversion & Distribution (Regular Session)

Chair: Aitouche, Abdel	CRISTAL/HEI
Co-Chair: HOBLOS, Ghaleb	IRSEEM/ESIGELEC

16:30-16:50 ThC1.1

Data Fusion for Fault Diagnosis in Smart Grid Power Systems, N/A

Kordestani, Mojtava	Univ. of Windsor
Saif, Mehrdad	Univ. of Windsor

16:50-17:10 ThC1.2

Model-Based Broken Rotor Bars Fault Detection and Diagnosis in Squirrel-Cage Induction Motors, pp. 537-539.

Duvvuri, SSSR Sarathbabu	IIT Hyderabad
Detroja, Ketan	Indian Inst. of Tech. Hyderabad

17:10-17:30 ThC1.3

Fault Diagnosis of Active Magnetic Bearings Based on Gaussian GLRT Detector, pp. 540-547.

Nagel, Leon	Tech. Univ. of Denmark
Galeazzi, Roberto	Tech. Univ. of Denmark
Voigt, Andreas	Lloyd Register Consulting
Santos, Ilmar	Tech. Univ. of Denmark

17:30-17:50 ThC1.4

Fault Detection and Isolation Methodology Using Interval Predictors with Application to DC-DC Buck Converters, pp. 548-553.

THABET, RIHAB EL HOUDA	Univ. OF BORDEAUX 1
Chafouk, Houcine	Irseem / Esigelec

17:50-18:10 ThC1.5

Modeling Approach and Fault Index Analysis of a Voltage-Source Brushless DC Motor, pp. 554-559.

Alameh, kawthar	Inst. De Recherche En Systèmes électroniques Embarqués
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Ginzarly, Riham	Univ. De Rouen
HOBLOS, Ghaleb	IRSEEM/ESIGELEC
BARAKAT, Georges	Univ. Le Havre, Normandie Univ

18:10-18:30 ThC1.6

Harmonic Fault Diagnosis in Power Quality System Using Harmonic Wavelet, N/A

Kordestani, Mojtava	Univ. of Windsor
Safavi, Ali Akbar	Shiraz Univ
Saif, Mehrdad	Univ. of Windsor

ThC2 S04
Health Management (Regular Session)

Chair: Provan, Gregory	Univ. Coll. Cork
Co-Chair: Sarrate, Ramon	Univ. Pol. De Catalunya

16:30-16:50 ThC2.1

A Graphical Framework for Stochastic Model-Based Diagnosis, pp. 566-571.

Provan, Gregory	Univ. Coll. Cork
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16:50-17:10 ThC2.2

Reliability Importance Measures for Availability Enhancement in Drinking Water Networks, pp. 572-578.

Salazar, Jean C.	Univ. Pol. De Catalunya
Nejjari, Fatiha	Univ. Pol. De Catalunya
Sarrate, Ramon	Univ. Pol. De Catalunya
Weber, Philippe	Univ. De Lorraine
Theilliol, Didier	Univ. of Lorraine

17:10-17:30 ThC2.3

Fault Detection on Bearings Coupled to Permanent Magnet

DC Motors by Using a Generalized Takagi-Sugeno PI Observer, pp. 579-584.

Martínez García, Citlaly	Cenidet
Osorio-Gordillo, Gloria-Lilia	Centro Nacional De Investigación Y Desarrollo Tecnológico
Astorga-Zaragoza, Carlos	Tecnológico Nacional De México - Cenidet
Puig, Vicenç	Univ. Pol. De Catalunya (UPC)

17:30-17:50 ThC2.4

Photovoltaic Module Health Monitoring and Degradation Assessment, pp. 585-592.

laayouj, nabil	National School of Applied Sciences Industrial Department, Ibn Z
Jamouli, Hicham	Ibn Zohr Univ
El Hail, M.Amine	Univ. Ibn Zohr, ENSA

17:50-18:10 ThC2.5

Supporting the Shift towards Continuous Pharmaceutical Manufacturing by Condition Monitoring, pp. 593-598.

Schenkendorf, René	TU Braunschweig
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18:10-18:30 ThC2.6

Model-Based Prognostic Algorithm for Online RUL Estimation of PEMFCs, pp. 599-604.

Polverino, Pierpaolo	Univ. of Salerno
Pianese, Cesare	Univ. of Salerno

ThC3 S02
Fault Tolerant Control 1 (Regular Session)

Chair: Blanke, Mogens	DTU
Co-Chair: Ponsart, Jean-Christophe	Univ. De Lorraine

16:30-16:50 ThC3.1

LMI-Based Design of Cascade Reconfiguration Control Structures, pp. 605-610.

Krokavec, Dusan	Tech. Univ. of Kosice
Filasova, Anna	Tech. Univ. of Kosice
Liščinský, Pavol	Tech. Univ. of Košice

16:50-17:10 ThC3.2

A Receding Horizon Control of Markov Jump Linear Systems with Imperfect State Information and Probabilistic State Constraints, pp. 611-617.

Chitraganti, Shaikshavali	Amrita Vishwa Vidyapeetham
Aberkane, Samir	Uhp, Nancy 1
Aubrun, Christophe	Univ. of Lorraine

17:10-17:30 ThC3.3

Effectiveness of PID and DMC Control Algorithms Automatic Code Generation for Microcontrollers: Application to a Thermal Process, pp. 618-623.

Chaber, Patryk	Warsaw Univ. of Tech
Lawrynczuk, Maciej	Warsaw Univ. of Tech

17:30-17:50 ThC3.4

From Safety Analysis of Reconfigurable Systems to Design of Fault-Tolerant Control Strategies, pp. 624-629.

Pirou, Pierre-Yves	EDF
Faure, Jean-Marc	ENS Cachan
Lesage, Jean-Jacques	ENS-Cachan

17:50-18:10 ThC3.5

Model-Free Control for Unknown Delayed Systems, pp. 630-635.

Doublet, Maxime	Univ. De Lorraine
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Join, Cédric
Hamelin, Frederic

Nancy Univ
Univ. of Lorraine

Technical Program for Friday September 9, 2016

FrA1	S01
Wind and Wave Turbines (Regular Session)	
Chair: Patton, Ron J.	Univ. of Hull
Co-Chair: Vidal, Yolanda	Univ. Pol. De Catalunya
09:00-09:20	FrA1.1
<i>Passive Fault Tolerant Control Strategy in Controlled Wind Turbines</i> , pp. 636-641.	
Acho, Leonardo	Univ. Pol. De Catalunya-EUETIB
Rodellar, Jose	Tech. Univ. of Catalonia
Tutivén, Christian	Univ. Pol. De Catalunya
Vidal, Yolanda	Univ. Pol. De Catalunya
09:20-09:40	FrA1.2
<i>Adaptive Nonlinear Filters for Joint Fault Estimation and Accommodation of a Wind Farm Benchmark</i> , pp. 642-647.	
Simani, Silvio	Univ. of Ferrara
Castaldi, Paolo	Univ. of Bologna
Bonfe, Marcello	Univ. Di Ferrara
09:40-10:00	FrA1.3
<i>Condition Monitoring of Permanent Magnet Synchronous Generator for Wind Turbine Applications</i> , pp. 648-653.	
Ibrahim, Raed	Loughborough Univ
Watson, Simon	Loughborough Univ
10:00-10:20	FrA1.4
<i>Estimation of Wave Excitation Force for Wave Energy Converters</i> , pp. 654-659.	
Abdelrahman, Mustafa	Univ. of Hull
Patton, Ron J.	Univ. of Hull
Guo, Bingyong	Univ. of Hull
Lan, Jianglin	Univ. of Hull
10:20-10:40	FrA1.5
<i>Control of a DC-AC Inverter in a Wind Energy Generation System Using T-S Fuzzy Modeling</i> , pp. 660-665.	
Harrabi, Naziha	Lab-STA/ENIS
Souissi, Mansour	Engineering School of Sfax, Tunisia
Aitouche, Abdel	CRISTAL/HEI
Chaabane, Mohamed	National Engineering School of Sfax, Tunisia
FrA2	S04
Fault Diagnosis and Fault Tolerant Control for Aerospace Systems (Invited Session)	
Chair: Simani, Silvio	Univ. of Ferrara
Co-Chair: NOURA, Hassan	United Arab Emirates Univ
Organizer: Simani, Silvio	Univ. of Ferrara
09:00-09:20	FrA2.1
<i>Hierarchical Fault-Tolerant Control of a Quadrotor Based on Fault Severity (I)</i> , pp. 666-671.	
MERHEB, Abdel-Razzak	LIU
Bateman, François	Lab Des Sci. Des Systèmes D'info
NOURA, Hassan	United Arab Emirates Univ
Al Younes, Younes	Higher Coll. of Tech
09:20-09:40	FrA2.2
<i>Adaptive FTC Based on Control Allocation and Fault Accommodation for Satellite Reaction Wheels (I)</i> , pp. 672-677.	
Baldi, Pietro	Univ. of Bologna

Blanke, Mogens	DTU
Castaldi, Paolo	Univ. of Bologna
Mimmo, Nicola	Univ. of Bologna
Simani, Silvio	Univ. of Ferrara
09:40-10:00	FrA2.3
<i>A Set Based Approach for SFDI on Small Commercial Aircraft (I)</i> , pp. 678-683.	
Mattei, Massimiliano	Seconda Univ. Di Napoli
Ollio, Luciano	DIIES - Univ. Degli Studi Di Reggio Calabria
Scordamaglia, Valerio	Univ. of Reggio Calabria
10:00-10:20	FrA2.4
<i>Fault Diagnosis and Fault Tolerant Control Strategies for Aerospace Systems (I)</i> , pp. 684-689.	
Simani, Silvio	Univ. of Ferrara
Castaldi, Paolo	Univ. of Bologna
Mimmo, Nicola	Univ. of Bologna
10:20-10:40	FrA2.5
<i>Detection of Icing and Actuators Faults in the Longitudinal Dynamics of Small UAVs Using an LPV Proportional Integral Unknown Input Observer (I)</i> , pp. 690-697.	
Rotondo, Damiano	Univ. Pol. De Catalunya (UPC)
Cristofaro, Andrea	Norwegian Univ. of Science and Tech
Johansen, Tor Arne	Norwegian Univ. of Sci. & Tech
Nejjari, Fatiha	Univ. Pol. De Catalunya
Puig, Vicenç	Univ. Pol. De Catalunya (UPC)
FrA3	S02
Fault Tolerant Control 2 (Regular Session)	
Chair: Aubrun, Christophe	Univ. of Lorraine
Co-Chair: Rotondo, Damiano	Univ. Pol. De Catalunya (UPC)
09:00-09:20	FrA3.1
<i>State-Feedback H Infinity Stabilization of State-Dependent Jump Linear Systems</i> , pp. 698-703.	
Chitraganti, Shaikshavali	Amrita Vishwa Vidyapeetham
Aberkane, Samir	Uhp, Nancy 1
Aubrun, Christophe	Univ. of Lorraine
09:20-09:40	FrA3.2
<i>Fault-Tolerant Periodic Economic Model Predictive Control of Differential-Algebraic-Equation Systems</i> , pp. 704-710.	
Wang, Ye	Univ. Pol. De Catalonia
Puig, Vicenç	Univ. Pol. De Catalunya (UPC)
Cembrano, Gabriela	UPC
09:40-10:00	FrA3.3
<i>Sensor Fault Tolerance in Output Feedback Nonlinear Model Predictive Control</i> , pp. 711-716.	
Knudsen, Brage Rugstad	Norwegian Univ. of Science and Tech
Alessandretti, Andrea	Inst. Superior Técnico - École Pol. Fédérale De Lau
Jones, Colin N	EPFL, Lausanne
10:00-10:20	FrA3.4
<i>Fault Tolerance Evaluation of Nonlinear Systems Using Viability Theory</i> , pp. 717-723.	
Ghaniee Zarch, Majid	Iran Univ. of Science and Tech
Puig, Vicenç	Univ. Pol. De Catalunya (UPC)
Poshtan, Javad	Iran Univ. of Science and Tech
10:20-10:40	FrA3.5

Fault Tolerant Control System Based on Subspace Predictive Control and Multiple Model Predictive Control, pp. 724-729.

QU, Zukun LAAS-CNRS
Dahhou, Boutaieb LAAS-CNRS
Roux, Gilles LAAS-CNRS

FrSP5 Sala d'Actes
"Model-Based Fault Diagnosis for Wind Turbines – Can It Work in Practice?" Michel Kinnaert (Semiplenary Session)

Chair: Schulte, Horst HTW-Berlin, Univ. of Applied Sciences

11:30-12:15 FrSP5.1

Model-Based Fault Diagnosis for Wind Turbines ? Can It Work in Practice?, pp. 730-734.

Kinnaert, Michel Univ. Libre De Bruxelles
Rakoto, Laurent Univ. Libre De Bruxelles (ULB)

FrB1 S01
Networked Control Systems (Regular Session)

Chair: Sauter, Dominique Lorraine Univ
Co-Chair: Boem, Francesca Imperial Coll. London

14:00-14:20 FrB1.1

Plug-And-Play Diagnosis of Locally Interconnected Systems with Limited Model Information, pp. 735-742.

Bodenburg, Sven Ruhr-Univ. Bochum
Lunze, Jan Ruhr-Univ. Bochum

14:20-14:40 FrB1.2

Fault-Tolerant Control of Networked Systems with Re-Distribution of Control Tasks in Case of Faults, pp. 743-749.

Schenk, Kai Ruhr-Univ. Bochum
Lunze, Jan Ruhr-Univ. Bochum

14:40-15:00 FrB1.3

Coding Control Signals and Switching LQG Controller for Secure Fault-Tolerant Control against Stealthy False Data Injection, pp. 750-755.

Rhouma, Taouba Univ. of Gabes, ENIG, MACS
Keller, Jean-Yves Univ. Henri Poincaré, CRAN
Chabir, Karim ENIG
Sauter, Dominique Lorraine Univ
Abdelkrim, Mohamed Naceur National Engineering School of Gabes, Tunisia. Res. Unit Of

15:00-15:20 FrB1.4

Fault-Tolerant Coupling of Real-Time Systems: A Case Study, pp. 756-762.

Tranninger, Markus Graz Univ. of Tech
Haid, Timo TU Graz / Posche AG
Stettinger, Georg VIRTUAL VEHICLE Res. Center
Benedikt, Martin Virtual Vehicle Res. Center
Horn, Martin Graz Univ. of Tech

15:20-15:40 FrB1.5

Sensor Placement Algorithm for Distributed Fault Diagnosis, pp. 763-770.

Gupta, Vikas UPC
Puig, Vicenç Univ. Pol. De Catalunya (UPC)

15:40-16:00 FrB1.6

Decentralized Fault Diagnosis for Heterogeneous Multi-Agent Systems, pp. 771-776.

Boem, Francesca Imperial Coll. London

Sabattini, Lorenzo

Univ. of Modena and Reggio Emilia

Secchi, Cristian

Univ. of Modena

FrB2 S04

RECONFIGURE FP7 Project for Advanced Real-Time FDD and FTC for Civil Aircraft: Contributions and Results (Invited Session)

Chair: Kerr, Murray DEIMOS Space SLU
Lawrence

Co-Chair: GOUPIL, Philippe AIRBUS Operations S.A.S
Organizer: Kerr, Murray DEIMOS Space SLU
Lawrence

Organizer: GOUPIL, Philippe AIRBUS Operations S.A.S

14:00-14:20 FrB2.1

RECONFIGURE FP7 Project Preliminary Results and Contributions (I), pp. 777-782.

Kerr, Murray Lawrence DEIMOS Space SLU
GOUPIL, Philippe AIRBUS Operations S.A.S
BOADA BAUXELL, JOSEP AIRBUS
Rosa, Paulo Andre Nobre Inst. for Systems and Robotics - Inst. Superior

Recupero, Cristina Elecnor Deimos Space

14:20-14:40 FrB2.2

Enhancing Flight Control in Case of Total Angle of Attack Sensor Loss (I), pp. 783-789.

Joos, Hans-Dieter German Aerospace Center (DLR)
Ossmann, Daniel Aerospace Engineering and Mechanics

14:40-15:00 FrB2.3

A Recursive Estimation Algorithm to Track Aircraft Model Parameters (I), pp. 790-797.

Hardier, Georges ONERA the French Aerospace Lab
Ferrerres, Gilles Onera / Dcsd
Seren, Cedric ONERA - the French Aerospace Lab

15:00-15:20 FrB2.4

Adaptive Control of a Civil Aircraft through On-Line Parameter Estimation (I), pp. 798-804.

Ferrerres, Gilles Onera / Dcsd
Hardier, Georges ONERA the French Aerospace Lab
Seren, Cedric ONERA - the French Aerospace Lab

15:20-15:40 FrB2.5

Development and Evaluation of Sliding Mode Schemes for the RECONFIGURE Benchmark Problem (I), pp. 805-810.

Bharani Chandra, Kumar Univ. of Leicester
Pakki
Chen, Lejun Univ. of Exeter
Alwi, Halim Univ. of Exeter
Edwards, Christopher Univ. of Exeter

FrB3 S02

Fault Accommodation (Regular Session)

Chair: Witczak, Marcin Univ. of Zielona Gora
Co-Chair: Ponsart, Jean- Univ. De Lorraine
Christophe

14:00-14:20 FrB3.1

Distributed Fault Diagnosis Using Minimal Structurally Over-Determined Sets: Application to a Water Distribution Network, pp. 811-818.

Gupta, Vikas	UPC
Puig, Vicenç	Univ. Pol. De Catalunya (UPC)

14:20-14:40 FrB3.2

Sensor Location for Fault Accommodation Problem, pp. 819-824.

Zhirabok, Alexey	Far Eastern Federal Univ
Shumsky, Alexey	Far Eastern Federal Univ
Zuev, Alexander	Inst. of Automation and Control Processes FEB RAS
Bobko, Evgeniy	Far Eastern Federal Univ

14:40-15:00 FrB3.3

Fault-Tolerant Control and Diagnosis for LPV System with H-Infinity Virtual Sensor, pp. 825-830.

Luzar, Marcel	Univ. of Zielona Góra
Witczak, Marcin	Univ. of Zielona Góra

15:00-15:20 FrB3.4

Virtual Actuator-Based FTC for LPV Systems with Saturating Actuators and FDI Delays, pp. 831-837.

Rotondo, Damiano	Univ. Pol. De Catalunya (UPC)
Ponsart, Jean-Christophe	Univ. De Lorraine

Nejjari, Fatiha	Univ. Pol. De Catalunya
Theilliol, Didier	Univ. of Lorraine
Puig, Vicenç	Univ. Pol. De Catalunya (UPC)

15:20-15:40 FrB3.5

Stochastic Stabilization of a Discrete-Time Inhomogeneous Markov Jump Linear System with Interval Transition Probability Matrix, pp. 838-842.

Chitraganti, Shaikshavali	Amrita Vishwa Vidyapeetham
Aberkane, Samir	Uhp, Nancy 1
Aubrun, Christophe	Univ. of Lorraine

15:40-16:00 FrB3.6

Robust Adaptive Simultaneous State and Fault Estimation for Nonlinear Systems: Application to an Aerodynamical System (I), pp. 843-848.

Buciakowski, Mariusz	Univ. of Zielona Góra
Witczak, Marcin	Univ. of Zielona Góra
Puig, Vicenç	Univ. Pol. De Catalunya (UPC)
Rotondo, Damiano	Univ. Pol. De Catalunya (UPC)
Nejjari, Fatiha	Univ. Pol. De Catalunya