

37th Benelux Meeting
on
Systems and Control

March 27 – 29, 2018

Soesterberg, The Netherlands

Program

The 37th Benelux Meeting on Systems and Control is sponsored by



Raffaella Carloni, Bayu Jayawardhana, and Mircea Lazar (Eds.)
Program - 37th Benelux Meeting on Systems and Control

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PO Box 72
9700 AB Groningen
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ISBN: 978-94-034-0551-3

Part 1

Programmatic Table of Contents

Tuesday, March 27, 2018

Plenary: P0 Steyl
Welcome and Opening

Chair: Raffaella Carloni 11.25–11.30

Mini Course: P1 Steyl
Networks of Dissipative Systems - Part I
Murat Arcak

Chair: Bayu Jayawardhana 11.30–12.30

Networks of Dissipative Systems - Part I ??
M. Arcak

Mini Course: P2 Steyl
Networks of Dissipative Systems - Part II
Murat Arcak

Chair: Bayu Jayawardhanar 13.40–14.40

Networks of Dissipative Systems - Part II ??
M. Arcak

TuA01 Steyl
System Identification A

Chair: Paul van den Hof 15.10-17.40

TuA01-1 15.10-15.35
Subspace identification for linear parameter-varying systems 19

P. Cox Eindhoven University of Technology
R. Toth Eindhoven University of Technology
P. Van den Hof Eindhoven University of Technology

TuA01-2 15.35-16.00
Identification of LTI models from concatenated data sets 20

S. Vasquez Université Libre de Bruxelles
M. Kinnaert Université Libre de Bruxelles
R. Pintelon Vrije Universiteit Brussel

TuA01-3 16.00-16.25
Local rational method with prior system knowledge: with application to mechanical and thermal systems 21

E. Evers Eindhoven University of Technology
B. de Jager Eindhoven University of Technology
T. Oomen Eindhoven University of Technology

TuA01-4 16.25-16.50
Order estimation of multidimensional transfer function by calculating Hankel intersections 22

B. Vergauwen Katholieke Universiteit Leuven
O.M. Agudelo Katholieke Universiteit Leuven
B. De Moor Katholieke Universiteit Leuven

TuA01-5 16.50-17.15
Prior knowledge and the least costly identification experiment 23

G. Birpoutsoukis Université Catholique de Louvain
X. Bombois Ecole Centrale de Lyon

TuA01-6 17.15-17.40

Closed-loop identification without external excitation 24

W. Yan Eindhoven University of Technology
P. Van den Hof Eindhoven University of Technology

TuA02 Angola

Optimal Control A

Chair: Dimitri Jeltsema 15.10-17.40

TuA02-1 15.10-15.35

A suboptimality approach to distributed linear quadratic optimal control 25

J. Jiao University of Groningen
H. Trentelman University of Groningen
M. Camlibel University of Groningen

TuA02-2 15.35-16.00

Vehicle energy management with ecodriving: A sequential quadratic programming approach with dual decomposition 26

Z. Khalik Eindhoven University of Technology
G. Padilla Eindhoven University of Technology
T. Romijn Eindhoven University of Technology
M. Donkers

TuA02-3 16.00-16.25

Power quality: A new challenge in systems and control 27

D. Jeltsema HAN University of Applied Science

TuA02-4 16.25-16.50

Spline-based trajectory generation for CNC-machines 28

T. Mercy Katholieke Universiteit Leuven
G. Pipeleers Katholieke Universiteit Leuven

TuA02-5 16.50-17.15

Optimized thermal-aware workload scheduling and control of data centers 29

T. Van Damme University of Groningen
C. De Persis University of Groningen
P. Tesi University of Groningen

TuA02-6 17.15-17.40

On convexity of the eco-driving problem 30

G. Padilla Eindhoven University of Technology
S. Weiland Eindhoven University of Technology
M. Donkers Eindhoven University of Technology

TuA03 Argentinië

Aerospace and Automotive Applications A

Chair: Bram de Jager 15.10-17.40

TuA03-1 15.10-15.35

Attitude control of a UAV in presence of motor asymmetry 31

B. Njinwoua Mons University
A. Vande Wouwer Mons University

TuA03-2 15.35-16.00

Longitudinal stability augmentation system for a highly unstable forward swept wing UAV by employing a neutral canard angle 32

M. Creyf Katholieke Universiteit Leuven
 F. Debrouwere Katholieke Universiteit Leuven
 M. Versteijne Katholieke Universiteit Leuven
 S. Debruyne

TuA03-3 16.00-16.25

Control of tethered quadrotors through geodesics 33

T. Nguyen Université Libre de Bruxelles
 E. Garone Université Libre de Bruxelles

TuA03-4 16.25-16.50

Constrained attitude control of rigid bodies via explicit reference governor 34

S. Nakano Université Libre de Bruxelles
 T. Nguyen Université Libre de Bruxelles
 E. Garone Université Libre de Bruxelles

TuA03-5 16.50-17.15

Design, modeling, and geometric control on SE(3) of a fully-actuated hexarotor for aerial interaction 35

R. Rashad University of Twente
 P. Kuipers University of Twente
 J. Engelen University of Twente
 S. Stramigioli

TuA03-6 17.15-17.40

Heat release analysis of advanced combustion concepts 36

M. Oom Eindhoven University of Technology
 B. de Jager Eindhoven University of Technology
 F. Willems Eindhoven University of Technology

TuA04 Bolivia
Distributed Control and Estimation A
Chair: Tamas Keviczky 15.10-17.15

TuA04-1 15.10-15.35

Divertor detachment control in nuclear fusion devices 37

T. Ravensbergen Eindhoven University of Technology
 M. van Berkel Eindhoven University of Technology

TuA04-2 15.35-16.00

Unified passivity-based distributed control of mechanical systems 38

L. Valk Delft University of Technology
 T. Keviczky Delft University of Technology

TuA04-3 16.00-16.25

Consensus on the unit sphere, the Stiefel manifold and SO(d): The hunt for almost global convergence 39

J. Thunberg University of Luxembourg
 J. Markdahl University of Luxembourg
 J. Goncalves University of Luxembourg

TuA04-4 16.25-16.50

A robust consensus algorithm for DC microgrids 40

M. Cucuzzella University of Groningen
 S. Trip University of Groningen
 C. De Persis University of Groningen
 X.Cheng, A. Ferrara, A. van der Schaft

TuA04-5 16.50-17.15

Fractional order PI autotuning method applied to multi-agent system 41

R. Cajo Ghent University
 R. De Keyser Ghent University
 D. Plaza Escuela Superior Politecnica del Litoral
 C. Ionescu

TuA05 Botswana
Model Reduction
Chair: Siep Weiland 15.10-17.40

TuA05-1 15.10-15.35

Model order reduction for drilling automation . . 42

H. Bansal Eindhoven University of Technology
 L. Iapichino Eindhoven University of Technology
 W. Schilders Eindhoven University of Technology
 N. van de Wouw

TuA05-2 15.35-16.00

Model reduction of coherent clusters in dynamic power system models 43

J. Leung Université Libre de Bruxelles
 M. Kinnaert Université Libre de Bruxelles
 J. Maun Université Libre de Bruxelles
 F. Vilella

TuA05-3 16.00-16.25

Model order reduction for an electrochemistry-based Li-ion battery model 44

L. Xia Eindhoven University of Technology
 E. Najafi Eindhoven University of Technology
 H. Bergveld Eindhoven University of Technology
 M. Donkers

TuA05-4 16.25-16.50

Synchronization persevering model reduction of Lure networks 45

X. Cheng University of Groningen
 J. Scherpen University of Groningen

TuA05-5 16.50-17.15

Reduced order controller design for disturbance decoupling problems 46

R. Merks Eindhoven University of Technology
 S. Weiland Eindhoven University of Technology
 R. Merks Eindhoven University of Technology

TuA05-6 17.15-17.40

Error analysis for parametric model order reduction using Krylov subspace method 47

D. Lou Eindhoven University of Technology
 S. Weiland Eindhoven University of Technology

TuA06 Congo
Nonlinear Control A
Chair: Bayu Jayawardhana 15.10-17.40

TuA06-1 15.10-15.35

Robust stability of feedback linearizable nonlinear systems 48

S. Azizi Université Libre de Bruxelles
 E. Garone Université Libre de Bruxelles

TuA06-2	15.35-16.00	TuA07-5	16.50-17.15
<i>Power-controlled Hamiltonian systems</i>	49	<i>Dynamic density estimation from cell population snapshot data</i>	58
P. Monshizadeh	University of Groningen	A. Küper	Katholieke Universiteit Leuven
J. Machado	SUPELEC	R. Dürr	Katholieke Universiteit Leuven
R. Ortega	SUPELEC	S. Waldherr	Katholieke Universiteit Leuven
A. van der Schaft		TuA07-6	17.15-17.40
TuA06-3	16.00-16.25	<i>Stability and passivity of multi-physic systems with irreversible entropy production</i>	59
<i>A port-Hamiltonian approach to secondary control of microgrids</i>	50	V. Benjamin	Université Catholique de Louvain
M. Adibi	Delft University of Technology	D. Denis	Université Catholique de Louvain
J. van der Woude	Delft University of Technology	N. Hudon	Queen's University
TuA06-4	16.25-16.50	L. Lefevre	
<i>Frequency-driven market mechanisms for optimal power dispatch</i>	51	TuA08	Kenia
T. Stegink	University of Groningen	System Theory	
A. Cherukuri	ETH Zurich	Chair: Eric Steur	15.10-17.40
C. De Persis	University of Groningen		
A. van der Schaft, J. Cortés		TuA08-1	15.10-15.35
TuA06-5	16.50-17.15	<i>On representations of linear dynamic networks</i>	60
<i>Hybrid integrator-gain based elements for nonlinear motion control</i>	52	E. Kivits	Eindhoven University of Technology
S. van den Eijnden	Eindhoven Univ. of Technology	P. Van den Hof	Eindhoven University of Technology
M. Heertjes	Eindhoven Univ. of Technology	TuA08-2	15.35-16.00
H. Nijmeijer	Eindhoven Univ. of Technology	<i>Partitioning and stability for linear time-varying large-scale systems</i>	61
Y. Knops		T. Pippia	Delft University of Technology
TuA06-6	17.15-17.40	J. Sijs	Delft University of Technology
<i>Formal controller synthesis using genetic programming</i>	53	B. De Schutter	Delft University of Technology
C. Verdier	Delft University of Technology	TuA08-3	16.00-16.25
M. Mazo	Delft University of Technology	<i>Strong structural controllability of systems on colored graphs</i>	62
TuA07	Mozambique	J. Jia	University of Groningen
Distributed Parameter Systems		H. Trentelman	University of Groningen
Chair: Steffen Waldherr	15.10-17.40	M. Camlibel	University of Groningen
		W. Baar	
TuA07-1	15.10-15.35	TuA08-4	16.25-16.50
<i>On LQG control of infinite-dimensional stochastic port-Hamiltonian systems</i>	54	<i>Numerical analysis of oscillations in nonlinear networks</i>	63
F. Lamoline	University of Namur	K. Rogov	Eindhoven University of Technology
J. Winkin	University of Namur	A. Pogromsky	Eindhoven University of Technology
TuA07-2	15.35-16.00	E. Steur	Eindhoven University of Technology
<i>Nonlinear stabilization of infinite-dimensional port-Hamiltonian systems applied to repetitive control</i>	55	H. Nijmeijer	
F. Califano	University of Bologna	TuA08-5	16.50-17.15
A. Macchelli	University of Bologna	<i>Approximate controllability of an axially vibrating nanorod embedded in an elastic medium</i>	64
TuA07-3	16.00-16.25	H. Heidari	Damghan University
<i>Port-Hamiltonian formulation of vibrations in a nanorod</i>	56	TuA08-6	17.15-17.40
H. Zwart	University of Twente	<i>Multiple input multiple output Cepstrum coefficients</i>	65
H. Heidari	Damghan University	O. Lauwers	Katholieke Universiteit Leuven
TuA07-4	16.25-16.50	B. De Moor	Katholieke Universiteit Leuven
<i>Modeling and control of thermo-fluidic processes in spatially interconnected structure</i>	57		
A. Das	Eindhoven University of Technology		
S. Weiland	Eindhoven University of Technology		

Wednesday, March 28, 2018

Mini Course: P3 Steyl
Networks of Dissipative Systems - Part III
 Murat Arcak
Chair: Mircea Lazar 9.15–10.15

Networks of Dissipative Systems - Part III . . . ??
 M. Arcak

Plenary: P4 Steyl
Distributed stochastic MPC
 Tamas Keviczky
Chair: Mircea Lazar 10:40–11.40

Distributed stochastic MPC ??
 T. Keviczky

WeM01 Steyl
System Identification B
Chair: Johan Schoukens 13.10-15.40

WeM01-1 13.10-13.35

A nonlinear state-space model of the transverse fluid force on an oscillating cylinder in a fluid flow 66
 J. Decuyper Vrije Universiteit Brussel
 T. De Troyer Vrije Universiteit Brussel
 M. Runacres Vrije Universiteit Brussel
 J. Schoukens

WeM01-2 13.35-14.00

From nonlinear identification to linear parameter varying models: Benchmark examples 67
 M. Schoukens Eindhoven University of Technology
 R. Toth Eindhoven University of Technology

WeM01-3 14.00-14.25

Grammar-based encoding of well-posed model structures for data-driven modeling 68
 D. Khandelwal Eindhoven University of Technology
 R. Toth Eindhoven University of Technology
 P. Van den Hof Eindhoven University of Technology

WeM01-4 14.25-14.50

Nonparametric regularization for time-varying operational modal analysis 69
 P. Csurcsia Vrije Universiteit Brussel
 J. Schoukens Vrije Universiteit Brussel
 B. Peeter Siemens Industry Software NV.

WeM01-5 14.50-15.15

A recursive least squares approach to distributed MISO system identification 70
 T. Steentjes Eindhoven University of Technology
 M. Lazar Eindhoven University of Technology
 P. Van den Hof Eindhoven University of Technology

WeM01-6 15.15-15.40

Identification of heat flux components in fusion plasmas 71
 M. van Berkel DIFFER
 T. Kobayashi National Institute for Fusion Science

WeM02 Angola
Optimal Control B
Chair: Mircea Lazar 13.10-15.40

WeM02-1 13.10-13.35

A penalty method algorithm for obstacle avoidance using nonlinear model predictive control 72
 B. Hermans Katholieke Universiteit Leuven
 G. Pipeleers Katholieke Universiteit Leuven
 P. Patrinos Katholieke Universiteit Leuven

WeM02-2 13.35-14.00

Real-time proximal gradient method for linear MPC 73
 R. Van Parys Katholieke Universiteit Leuven
 G. Pipeleers Katholieke Universiteit Leuven

WeM02-3 14.00-14.25

Combining optimal sensor and actuator selection with H-inf control design 74
 T. Singh Katholieke Universiteit Leuven
 M. De Mauri Katholieke Universiteit Leuven
 J. Swevers Katholieke Universiteit Leuven
 G. Pipeleers

WeM02-4 14.25-14.50

Optimal sensor configurations for collision avoidance: A minimax optimization approach 75
 R. Mohan Eindhoven University of Technology
 R. Gielen Philips Healthcare
 B. de Jager Eindhoven University of Technology

WeM02-5 14.50-15.15

Risk-averse risk-constrained optimal control 76
 D. Herceg IMT Lucca
 P. Sopasakis Katholieke Universiteit Leuven
 A. Bemporad IMT Lucca
 P. Patrinos

WeM02-6 15.15-15.40

Optimal control for a class of differential inclusions 77
 J. Eising University of Groningen
 M. Camlibel University of Groningen

WeM03 Argentinië
Aerospace and Automotive Applications B
Chair: Jan Swevers 13.10-15.40

WeM03-1 13.10-13.35

Driver intervention detection based on vehicle reference dynamics 78
 W. Schinkel Eindhoven University of Technology
 T. van der Sande Eindhoven University of Technology
 J. Loof Eindhoven University of Technology
 H. Nijmeijer

WeM03-2 13.35-14.00

Motion planning for automated connected vehicles 79
 R. van Hoek Eindhoven University of Technology
 J. Ploeg TNO
 H. Nijmeijer Eindhoven University of Technology

WeM03-3 **14.00-14.25**
String stability analysis of MPC-based heterogeneous platooning 80
 J. Reinders Eindhoven University of Technology
 E. van Nunen TNO
 E. Semsar-Kazerooni TNO
 N. van de Wouw

WeM03-4 **14.25-14.50**
Co-design of active controlled systems: Application to state-of-the-art CVT systems 81
 C. Fahdzyana Eindhoven University of Technology
 T. Hofman Eindhoven University of Technology

WeM03-5 **14.50-15.15**
Powertrain design sensitivity study of a heavy-duty hybrid electric truck 82
 F. Verbruggen Eindhoven University of Technology
 T. Hofman Eindhoven University of Technology

WeM03-6 **15.15-15.40**
Feed-forward ALINEA: A ramp metering control algorithm for nearby and distant bottlenecks . . . 83
 J. Frejo Delft University of Technology
 B. De Schutter Delft University of Technology

WeM04 **Bolivia**
Distributed Control and Estimation B
Chair: Riccardo Ferrari **13.10-15.40**

WeM04-1 **13.10-13.35**
A robust PID autotuning method for steam/water loop in large scale ships 84
 S. Zhao Ghent University
 R. De Keyser Ghent University
 S. Liu Harbin Engineering University
 C. Ionescu

WeM04-2 **13.35-14.00**
Controlling triangular formations using angle information 85
 L. Chen University of Groningen
 M. Cao University of Groningen
 C. Li Harbin Institute of Technology

WeM04-3 **14.00-14.25**
Safe formation-motion control of mobile robots . 86
 N. Chan University of Groningen
 B. Jayawardhana University of Groningen
 J. Scherpen University of Groningen

WeM04-4 **14.25-14.50**
Distributed constraint optimization for mobile sensor coordination 87
 J. Fransman Delft University of Technology
 B. De Schutter Delft University of Technology
 J. Sijts Delft University of Technology

WeM04-5 **14.50-15.15**
Coping with collisions in decentralized event-triggered control 88
 M. Balaghiinaloo Eindhoven University of Technology
 D. Antunes Eindhoven University of Technology

WeM04-6 **15.15-15.40**
Distributed fault and malicious behaviour detection in multi vehicle systems 89
 N. Jahanshahi Delft University of Technology
 R. Ferrari Delft University of Technology

WeM05 **Botswana**
Mechanical Engineering A
Chair: Bayu Jayawardhana **13.10-15.40**

WeM05-1 **13.10-13.35**
Extending Cummins' equation to floater arrays: A port-Hamiltonian approach 90
 M. Almuzakki University of Groningen
 J. Barradas-Berglind University of Groningen
 Y. Wei University of Groningen
 M. Arias, A. Vakis, B. Jayawardhana

WeM05-2 **13.35-14.00**
Constrained multivariable extremum-seeking applied to optimization of Diesel engine fuel-efficiency 91
 R. van der Weijst Eindhoven University of Technology
 T. van Keulen Eindhoven University of Technology
 F. Willems Eindhoven University of Technology

WeM05-3 **14.00-14.25**
Reset control for transient performance improvement of systems with friction 92
 R. Beerens Eindhoven University of Technology
 N. van de Wouw Eindhoven University of Technology
 M. Heemels Eindhoven University of Technology
 H. Nijmeijer

WeM05-4 **14.25-14.50**
Symbolic equation extraction from SimScape . . . 93
 J. Gillis MECO Research Team
 E. Kikken Flanders Make

WeM05-5 **14.50-15.15**
Nonlinear modeling for analysis of directional drilling processes 94
 F. Shakib Eindhoven University of Technology
 E. Detournay University of Minnesota
 N. van de Wouw Eindhoven University of Technology

WeM05-6 **15.15-15.40**
Clamping strategies for belt-type CVT systems: An overview 95
 S. Prakash Eindhoven University of Technology
 T. Hofman Eindhoven University of Technology
 B. de Jager Eindhoven University of Technology

WeM06 **Congo**
Nonlinear Control B
Chair: Jacquélien Scherpen **13.10-15.40**

WeM06-1 **13.10-13.35**
Capabilities of nonlinear iterative learning control with RoFaLT 96
 A. Steinhauser Katholieke Universiteit Leuven
 J. Swevers Katholieke Universiteit Leuven

WeM06-2 **13.35-14.00**
Learning control in practice: Novel paradigms for industrial applications 97
 J. Willems Flanders Make
 E. Hostens Flanders Make
 B. Depraetere Flanders Make
 A. Steinhauser, J. Swevers

WeM06-3 **14.00-14.25**
Passivity-based control of gradient systems. 98
 L. Borja-Rosales University of Groningen
 J. Scherpen University of Groningen
 A. van der Schaft University of Groningen

WeM06-4 **14.25-14.50**
Virtual differential passivity based control of mechanical systems in the port-Hamiltonian framework 99
 R. Baez University of Groningen
 A. van der Schaft University of Groningen
 B. Jayawardhana University of Groningen

WeM06-5 **14.50-15.15**
Projective contraction of switching systems 100
 G. Berger Université Catholique de Louvain
 F. Forni University of Cambridge
 R. Jungers Université Catholique de Louvain
 R. Sepulchre

WeM06-6 **15.15-15.40**
Nonlinear trajectory tracking via incremental passivity 101
 C. Wu Zhejiang University
 A. van der Schaft University of Groningen
 J. Chen Zhejiang University

WeM07 **Mozambique**
Model-based Control A
Chair: Leyla Ozkan **13.10-15.40**

WeM07-1 **13.10-13.35**
Modeling and localized feedforward control of thermal deformations induced by a moving heat load 102
 D. van den Hurk Eindhoven University of Technology
 S. Weiland Eindhoven University of Technology
 K. van Berkel ASML Netherlands B.V.

WeM07-2 **13.35-14.00**
Ten years of control for nuclear fusion in the Netherlands 103
 M. de Baar DIFFER

WeM07-3 **14.00-14.25**
Model-based control of reactive systems using extent-based LPV models 104
 C. Mendez-Blanco Eindhoven University of Technology
 A. Marquez-Ruiz Eindhoven University of Technology
 L. Ozkan Eindhoven University of Technology

WeM07-4 **14.25-14.50**
Tube-based linear parameter-varying MPC for a thermal system 105
 J. Hanema Eindhoven University of Technology
 R. Toth Eindhoven University of Technology
 M. Lazar Eindhoven University of Technology

WeM07-5 **14.50-15.15**
Design of distributed thermal actuators for a one-dimensional thermomechanical model 106
 D. Veldman Eindhoven University of Technology
 R. Fey Eindhoven University of Technology
 H. Zwart University of Twente
 M. van de Wal, J. van den Boom, H. Nijmeijer

WeM07-6 **15.15-15.40**
Design and modeling for controllable UHVCVD . 107
 M. Dresscher University of Groningen
 B. Kooi University of Groningen
 J. Scherpen University of Groningen
 B. Jayawardhana

WeM08 **Kenia**
Systems Biology
Chair: Steffen Waldherr **13.10-15.15**

WeM08-1 **13.10-13.35**
Partial synchronization in networks of Kuramoto-oscillator networks 108
 Y. Qin University of Groningen
 Y. Kawano University of Groningen
 M. Cao University of Groningen

WeM08-2 **13.35-14.00**
Integration of protein dynamics in batch bioprocess optimization 109
 G. Jeanne SUPELEC
 S. Tebbani SUPELEC
 D. Dumur SUPELEC
 A. Goelzer, V. Fromion

WeM08-3 **14.00-14.25**
Variable selection in linear dynamical systems . . 110
 A. Aalto University of Luxembourg
 J. Goncalves University of Luxembourg

WeM08-4 **14.25-14.50**
Nonlinear model predictive control of Escherichia coli culture 111
 A. Merouane University of Mons
 S. Tebbani SUPELEC
 D. Dumur SUPELEC
 A. Vande Wouwer, L. Dewasme

WeM08-5 **14.50-15.15**
Dynamic constraint-based modelling of bioprocesses: a dynamic flux balance analysis model for recombinant Streptomyces lividans 112
 K. De Becker Katholieke Universiteit Leuven
 K. Bernaerts Katholieke Universiteit Leuven
 W. Daniels Katholieke Universiteit Leuven
 K. Simoens

WeA01 **Steyl**
System Identification C
Chair: Julien Hendrickx **16.00-18.30**

WeA01-1 **16.00-16.25**
Topology identification in dynamic Bayesian networks **113**
 S. Shi Eindhoven University of Technology
 G. Bottegal Eindhoven University of Technology
 P. Van den Hof Eindhoven University of Technology

WeA01-2 **16.25-16.50**
Topology reconstruction of dynamical networks via constrained Lyapunov equations **114**
 H. van Waarde University of Groningen
 P. Tesi University of Groningen
 M. Camlibel University of Groningen

WeA01-3 **16.50-17.15**
Local transfer functions recovery in networked system identification **115**
 J. Hendrickx Université Catholique de Louvain
 M. Gevers Université Catholique de Louvain
 A. Bazanella Univ. Federal do Rio Grande do Sul

WeA01-4 **17.15-17.40**
A sequential least squares algorithm for ARMAX model identification in a closed-loop with sensor noise **116**
 H. Weerts Eindhoven University of Technology
 G. Bottegal Eindhoven University of Technology
 P. Van den Hof Eindhoven University of Technology

WeA01-5 **17.40-18.05**
Sparse identification of linear parameter-varying systems using B-splines **117**
 D. Turk Katholieke Universiteit Leuven
 G. Pipeleers Katholieke Universiteit Leuven
 J. Swevers Katholieke Universiteit Leuven

WeA01-6 **18.05-18.30**
Local module identification in dynamic networks using regularized kernel-based methods **118**
 K. Ramaswamy Eindhoven University of Technology
 G. Bottegal Eindhoven University of Technology
 P. Van den Hof Eindhoven University of Technology

WeA02 **Angola**
Optimization
Chair: Jan Swevers **16.00-18.30**

WeA02-1 **16.00-16.25**
Computing controlled invariant sets using semidefinite programming **119**
 B. Legat Université Catholique de Louvain
 R. Jungers Université Catholique de Louvain
 P. Tabuada UCLA

WeA02-2 **16.25-16.50**
Decoupling multivariate functions: exploring multiple derivative information **120**
 J. De Geeter Vrije Universiteit Brussel
 P. Dreesen Vrije Universiteit Brussel
 M. Ishteva Vrije Universiteit Brussel

WeA02-3 **16.50-17.15**
Solving multivariate polynomial optimization problems via numerical linear algebra **121**
 C. Vermeersch Katholieke Universiteit Leuven
 O. Mauricio-Agudelo Katholieke Universiteit Leuven
 B. De Moor Katholieke Universiteit Leuven

WeA02-4 **17.15-17.40**
Lookup tables in optimization with CasADi and OptiSpline **122**
 J. Gillis Katholieke Universiteit Leuven

WeA02-5 **17.40-18.05**
Proximal outer approximation **123**
 M. De Mauri Katholieke Universiteit Leuven
 G. Pipeleers Katholieke Universiteit Leuven
 J. Swevers Katholieke Universiteit Leuven

WeA02-6 **18.05-18.30**
Parametric and robust optimization with OptiSpline **124**
 J. Gillis Katholieke Universiteit Leuven
 E. Lambrechts Katholieke Universiteit Leuven
 G. Pipeleers Katholieke Universiteit Leuven

WeA03 **Argentinië**
Robotics A
Chair: Mircea Lazar **16.00-18.30**

WeA03-1 **16.00-16.25**
Semantic world modeling for autonomous cars **125**
 M. Dolatabadi Eindhoven Univ. of Technology
 M. van de Molengraft Eindhoven Univ. of Technology
 M. Steinbuch Eindhoven Univ. of Technology

WeA03-2 **16.25-16.50**
Composable skill programming framework for complex sensor-based robot tasks **126**
 Y. Pane Katholieke Universiteit Leuven
 W. Decre Katholieke Universiteit Leuven
 J. De Schutter Katholieke Universiteit Leuven

WeA03-3 **16.50-17.15**
Implementation aspects of time-optimal predictive path following for robot arms **127**
 N. van Duijkeren Katholieke Universiteit Leuven
 G. Pipeleers Katholieke Universiteit Leuven
 M. Diehl University of Freiburg
 J. Swevers

WeA03-4 **17.15-17.40**
In-eye forbidden-region virtual fixtures based on optical-coherence-tomography-probe proximity measurements **128**
 Y. Douven Eindhoven Univ. of Technology
 M. van de Molengraft Eindhoven Univ. of Technology
 M. Steinbuch Eindhoven Univ. of Technology

WeA03-5 **17.40-18.05**
3D path-following using a guiding vector field **129**
 W. Yao University of Groningen
 Y. Kapitanyuk University of Groningen
 M. Cao University of Groningen

WeA03-6 **18.05-18.30**
Identification of the time-varying joint impedances for the application to bionic devices 130
 G. Cavallo Vrije Universiteit Brussel
 M. van de Ruit Delft University of Technology
 A. Schoutens Delft University of Technology
 J. Lataire

WeA04 **Bolivia**
Games and Agent-Based Models A
Chair: Tamas Keviczky **16.00-18.30**

WeA04-1 **16.00-16.25**
Resilience against misbehaving nodes in asynchronous networks 131
 D. Senejohnny University of Groningen
 S. Sundaram Purdue University
 C. De Persis University of Groningen
 P. Tesi

WeA04-2 **16.25-16.50**
The synchronizing probability function for primitive sets of matrices 132
 C. Catalano Gran Sasso Science Institute
 R. Jungers Université Catholique de Louvain

WeA04-3 **16.50-17.15**
Asynchronous proximal dynamics in multi-agent network games 133
 C. Cenedese University of Groningen
 S. Grammatico Delft University of Technology
 M. Cao University of Groningen

WeA04-4 **17.15-17.40**
Smart detection and real-time learning in water distribution 134
 C. Geelen Wageningen University

WeA04-5 **17.40-18.05**
Evolutionary game dynamics for two interacting populations under environmental feedback 135
 L. Gong University of Groningen
 M. Cao University of Groningen

WeA04-6 **18.05-18.30**
The indefinite soft-constrained differential game revisited 136
 J. Engwerda Tilburg University

WeA05 **Botswana**
Mechanical Engineering B
Chair: Karel J. Keesman **16.00-18.30**

WeA05-1 **16.00-16.25**
Inferential control of a wafer stage using disturbance observers 137
 N. Mooren Eindhoven University of Technology
 N. Dirks ASML Netherlands B.V.
 R. Voorhoeve Eindhoven University of Technology
 T. Oomen

WeA05-2 **16.25-16.50**
Dynamic simulation of ventilated potatoes in large-scale bulk storage facilities 138
 N. Grubben Wageningen University
 K. Keesman Wageningen University

WeA05-3 **16.50-17.15**
Modelling & control of a photopolymerization-based ceramic additive manufacturing process 139
 T. Hafkamp Eindhoven University of Technology
 B. de Jager Eindhoven University of Technology
 G. van Baars TNO
 P. Etman

WeA05-4 **17.15-17.40**
Systems and control in precision farming: Prospects and challenges 140
 S. van Mourik Wageningen University
 P. Koerkamp Wageningen University
 E. van Henten Wageningen University

WeA05-5 **17.40-18.05**
Data-driven inverse-model feedforward control using non-causal rational basis functions 141
 L. Blanken Eindhoven University of Technology
 S. Koekebakker OcÅI Technologies B.V.
 T. Oomen Eindhoven University of Technology

WeA05-6 **18.05-18.30**
A linear single degree of freedom model for acoustophoresis 142
 M. Hakan Kandemir Wageningen Univ. & Research
 R. Wagterveld Wetsus
 D. Yntema Wetsus
 K. Keesman

WeA06 **Congo**
Nonlinear Control C
Chair: Arjan van der Schaft **16.00-18.30**

WeA06-1 **16.00-16.25**
Lyapunov stability: Why uniform results are important, and how to obtain them 143
 E. Lefeber Eindhoven University of Technology

WeA06-2 **16.25-16.50**
Robust automatic generation control in power systems 144
 M. Cucuzzella University of Groningen
 S. Trip University of Groningen
 J. Scherpen University of Groningen
 C. De Persis, A. Ferrara

WeA06-3 **16.50-17.15**
On guaranteeing tracking performance and stability with LPV control for nonlinear systems 145
 G. Sales Mazzocante Eindhoven Univ. of Technology
 R. Toth Eindhoven Univ. of Technology
 S. Weiland Eindhoven Univ. of Technology

WeA06-4	17.15-17.40
<i>Performance tuning in extremum seeking control via Lie bracket approximations</i>	
C. Labar	Université Libre de Bruxelles
J. Feiling	University of Stuttgart
C. Ebenbauer	University of Stuttgart
WeA06-5	17.40-18.05
<i>Nonlinear model order reduction for MPD systems</i> 147	
S. Naderilordejani	Eindhoven Univ. of Technology
B. Besseblink	University of Groningen
N. van de Wouw	Eindhoven Univ. of Technology
W. Schilders	
WeA06-6	18.05-18.30
<i>Construction of PID passivity-based controllers for port-Hamiltonian systems</i>	
L. Borja-Rosales	University of Groningen
R. Ortega	SUPELEC
J. Scherpen	University of Groningen
WeA07	Mozambique
Model-based Control B	
Chair: Simon van Mourik	16.00-18.30
WeA07-1	16.00-16.25
<i>Robust greenhouse climate control</i>	
W. Kuijpers	Eindhoven Univ. of Technology
D. Katzin	Wageningen Univ. & Research
R. van de Molengraft	Eindhoven Univ. of Technology
S. van Mourik, E. van Henten	
WeA07-2	16.25-16.50
<i>Flexible bio-hydrogen supply based on model predictive control for balancing an urban hybrid renewable energy system</i>	
Y. Jiang	Wageningen University & Research
WeA07-3	16.50-17.15
<i>Model learning predictive control with applications to batch processes</i>	
M. Loonen	Eindhoven Univ. of Technology
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M. Bahadir Saltik	Eindhoven Univ. of Technology
L. Azkan	
WeA07-4	17.15-17.40
<i>A model based scenario study for balanced crop irrigation</i>	
F. Mondaca-Duarte	Wageningen University
S. van Mourik	Wageningen University
E. van Henten	Wageningen University
WeA07-5	17.40-18.05
<i>Supervisory control synthesis for a lock-bridge combination</i>	
F. Reijnen	Eindhoven Univ. of Tech.
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WeA07-6	18.05-18.30
<i>Prediction-based delay compensation for staged crystallization</i>	
M. Porru	Eindhoven University of Technology
L. Ozkan	Eindhoven University of Technology

WeA08	Kenia
State Observer and Estimation	
Chair: Bayu Jayawardhana	16.00-18.30
WeA08-1	16.00-16.25
<i>State estimation for nonlinear systems with communication constraints</i>	
Q. Voortman	Eindhoven University of Technology
A. Pogromsky	Eindhoven University of Technology
H. Nijmeijer	Eindhoven University of Technology
WeA08-2	16.25-16.50
<i>Cooperative adaptive cruise control: an observer-based approach to increase robustness over unreliable networks</i>	
F. Acciani	University of Twente
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P. Frasca	University Grenoble Alpes
G. Hejjenk	
WeA08-3	16.50-17.15
<i>Real-time plasma state monitoring and supervisory control on the TCV Tokamak</i>	
T. Blanken	Eindhoven University of Technology
F. Felici	Eindhoven University of Technology
C. Galperti	EPFL
T. Vu, M. Kong, O. Sauter	
WeA08-4	17.15-17.40
<i>On experiment design for parameter estimation of equivalent-circuit battery models</i>	
H. Beelen	Eindhoven University of Technology
H. Bergveld	Eindhoven University of Technology
M. Donkers	Eindhoven University of Technology
WeA08-5	17.40-18.05
<i>A study on recurrent deep learning methods for state of charge estimation in Lithium-Ion batteries</i> 159	
E. Najafi	Eindhoven University of Technology
F. Zanjani	Eindhoven University of Technology
H. Bergveld	Eindhoven University of Technology
M. Donkers	
WeA08-6	18.05-18.30
<i>Similarity-based adaptive complementary filter for IMU fusion</i>	
A. Andrian	Eindhoven Univ. of Technology
D. Antunes	Eindhoven Univ. of Technology
R. van de Molengraft	Eindhoven Univ. of Technology
M. Heemels	

Thursday, March 29, 2018

Pleinary: P5 Steyl
Robot learning
 Dongheui Lee
Chair: Raffaella Carloni 8.30–9.30

Robot learning ??
 D. Lee

Pleinary: P6 Steyl
Robot learning
 Dongheui Lee
Chair: Raffaella Carloni 9.45–10.45

Robot learning ??
 D. Lee

ThM01 Angola
Medical Applications
Chair: Julien Hendrickx 10.45-12.50

ThM05-1 10.45-11.10
Modeling and control of pharmacokinetic models 161
 P. Themans University of Namur
 F. Musuamba University of Limoges
 J. Winkin University of Namur

ThM05-2 11.10-11.35
Control and state estimation for MR-guided HIFU hyperthermia 162
 D. Deenen Eindhoven University of Technology
 B. Maljaars Eindhoven University of Technology
 B. de Jager Eindhoven University of Technology
 M. Heemels, L. Sebeke, E. Heijman

ThM05-3 11.35-12.00
Application of digital technologies in proton therapy treatment: Fast calibration 163
 Z. Wang Université Catholique de Louvain
 Q. Flandroy IBA Group
 B. Herregods IBA Group
 R. Jungers

ThM05-4 12.00-12.25
EEG classification based on inductive means . . . 164
 E. Massart Université Catholique de Louvain
 S. Chevallier Université de Versailles
 J. Hendrickx Université Catholique de Louvain
 P. Absil

ThM05-5 12.25-12.50
Quench detection for the cooling system of a particle accelerator for proton therapy 165
 B. Dehem Université Catholique de Louvain
 N. Tran IBA Group
 F. Glineur Université Catholique de Louvain

ThM02 Argentinië
Robotics B
Chair: Raffaella Carloni 10.45-12.50

ThM01-1 10.45-11.10
Gearbox design for a flapping twin-wing robot . . 166
 H. Altartouri Université Libre de Bruxelles
 E. Garone Université Libre de Bruxelles
 A. Preumont Université Libre de Bruxelles

ThM01-2 11.10-11.35
Modelling and control of soft robot manipulators 167
 B. Caasenbrood Eindhoven University of Technology
 H. Nijmeijer Eindhoven University of Technology
 A. Pogromsky Eindhoven University of Technology

ThM01-3 11.35-12.00
Development and implementation of a reconfigurable assembly cell 168
 M. Verbandt Katholieke Universiteit Leuven
 R. Van Parys Katholieke Universiteit Leuven
 M. Kotzé Katholieke Universiteit Leuven
 J. Swevers, J. Philips, G. Pipeleers

ThM01-4 12.00-12.25
A variable stiffness joint with variable stiffness springs 169
 R. Carloni University of Groningen
 V. Lapp University of Twente
 A. Cremonese University of Twente
 J. Belcari, A. Zucchelli

ThM01-5 12.25-12.50
A supervisory control and data acquisition (SCADA) system in agriculture and related path planning problems 170
 N. Bono Rossello Université Libre de Bruxelles
 E. Garone Université Libre de Bruxelles
 A. Gasparri University of Roma Tre
 R. Carpio

ThM03 Bolivia
Games and Agent-Based Models B
Chair: Bart Besselink 10.45-12.50

ThM02-1 10.45-11.10
Projected-gradient methods for generalized equilibrium seeking in aggregative games are preconditioned forward-backward splitting 171
 G. Belgioioso Eindhoven University of Technology
 S. Grammatico Delft University of Technology

ThM02-2 11.10-11.35
Performance comparison of routing strategies for automated guided vehicles 172
 V. Mazulina Eindhoven University of Technology
 A. Pogromsky Eindhoven University of Technology
 H. Nijmeijer Eindhoven University of Technology

ThM02-3 11.35-12.00
Exact potential of nonlinear public good games on networks 173
 A. Govaert Eindhoven University of Technology
 M. Cao Eindhoven University of Technology

ThM02-4 **12.00-12.25**
Sets of stochastic matrices with converging products: Bounds and complexity 174
 P. Chevalier Université Catholique de Louvain
 V. Gusev Université Catholique de Louvain
 J. Hendrickx Université Catholique de Louvain

ThM02-5 **12.25-12.50**
Bursty walkers backtrack 175
 M. Gueuning University of Namur
 R. Lambiotte University of Namur
 J. Delvenne Université Catholique de Louvain

ThM04 **Botswana**
Electro-Mechanical Engineering
Chair: Bram de Jager **10.45-12.50**

ThM03-1 **10.45-11.10**
Torsional vibration- and backlash- compensation in drive-lines using non-linear feedforward control 176
 C. Vaseur Flanders Make
 A. Rosich Flanders Make
 M. Witters Flanders Make
 B. de Jager

ThM03-2 **11.10-11.35**
Identification of the drive train of an electric vehicle 177
 A. De Preter Octinion
 L. Jacobs MECO Research Team
 J. Anthonis Octinion
 G. Pipeleers, J. Swevers

ThM03-3 **11.35-12.00**
Constrained charging of Li-ion batteries 178
 A. Goldar Université Libre de Bruxelles
 R. Romagnoli Université Libre de Bruxelles
 L. Daniel Couto Université Libre de Bruxelles
 E. Garone, M. Kinnaert

ThM03-4 **12.00-12.25**
On power grids with grounded capacitors 179
 M. Jeeninga University of Groningen

ThM03-5 **12.25-12.50**
Modelling and control of a nanometer-accurate motion system 180
 I. Proimadis Eindhoven University of Technology
 T. Bloemers Eindhoven University of Technology
 R. Toth Eindhoven University of Technology
 H. Butler

ThM05 **Congo**
Model-based Control C
Chair: Leyla Ozkan **10.45-12.50**

ThM04-1 **10.45-11.10**
Structuring multilevel discrete-event systems modeled with extended finite state automata 181
 M. Goorden Eindhoven Univ. of Tech.
 M. Reniers Eindhoven Univ. of Tech.
 J. van de Mortel-Fronczak Eindhoven Univ. of Tech.
 J. Rooda

ThM04-2 **11.10-11.35**
L2-gain analysis of periodic event-triggered systems with varying delays using lifting techniques 182
 N. Srijbosch Eindhoven University of Technology
 G. Dullerud University of Illinois
 A. Teel UCSB
 M. Heemels

ThM04-3 **11.35-12.00**
Modeling non-equilibrium multiphase systems . . . 183
 A. Romo-Hernandez Université Catholique de Louvain
 D. Dochain Université Catholique de Louvain
 N. Hudon Queen's University
 E. Ydsite

ThM04-4 **12.00-12.25**
LCToolbox - A MATLAB toolbox for robust control design 184
 L. Jacobs Katholieke Universiteit Leuven
 M. Verbandt Katholieke Universiteit Leuven
 J. Swevers Katholieke Universiteit Leuven
 G. Pipeleers

ThM04-5 **12.25-12.50**
Effortless NLP modeling with CasADi Opti stack 185
 J. Gillis MECO Research Team

Event: E1 **Steyl**
DISC Certificates & Best Thesis Award

Chair: Henk Nijmeijer **12.50-13.10**

Event: E2 **Steyl**
Best Junior Presentation Award

Chair: Award Committee **13.10-13.25**

Pleanary: P7 **Steyl**
Closure

Chair: Organizing Committee **13.25-13.30**

Part 1: Programmatic Table of Contents 3
 Overview of scientific program

Part 2: List of Participants ??
 Alphabetical list

Part 3: Organizational Comments ??
 Comments, overview program, map

Part 2

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Part 3

Organizational Comments

Welcome

The Organizing Committee has the pleasure of welcoming you to the *37th Benelux Meeting on Systems and Control*, at Kontakt der Kontinenten in Soesterberg, The Netherlands.

Aim

The aim of the Benelux Meeting is to promote research activities and to enhance cooperation between researchers in Systems and Control. This is the thirty-seventh in a series of annual conferences that are held alternately in Belgium and The Netherlands.

Scientific Program Overview

1. Mini course by *Murat Arcaç* (University of California, Berkeley, USA) on **Networks of dissipative Systems: Compositional certification of stability, performance, and safety**.
2. Plenary lectures by *Tamas Keviczky* (Delft University of Technology, The Netherlands) on **Distributed stochastic model predictive control for large-scale smart energy systems**.
3. Plenary lectures by *Dongheui Lee* (Technical University of Munich, Germany) on: **Robot learning through physical interaction and human guidance**.
4. Contributed short lectures. See the list of sessions for the titles and authors of these lectures.

Directions for speakers

For a contributed lecture, the available time is 25 minutes. Please leave a few minutes for discussion and room changes, and adhere to the indicated schedule. In each room LCD projectors are available, as well as VGA and HDMI cables. *When using a projector, you have to provide a notebook yourself.*

Registration

The Benelux Meeting registration desk, located in the foyer, will be open on Tuesday, March 27, from 10:00 to 14:00. Late registrations can be made at the Benelux Meeting registration desk, when space is still available. The on-site fee schedule is:

Arrangement	Price
only meals (no dinners)	€375
one day (no dinner)	€275

The registration fee includes:

- Admission to all sessions.
- A copy of the Book of Abstracts.
- Coffee and tea during the breaks.
- In the case of *accommodation* arrangement: lunch and dinner on Tuesday; breakfast, lunch, dinner on Wednesday; breakfast and lunch on Thursday.
- In the case of *only meals (no dinner)* arrangement: lunch on Tuesday, Wednesday, Thursday.
- In the case of *one day (no dinner)* arrangement: lunch on Tuesday, or Wednesday, or Thursday.
- Free use of a wireless Internet connection (WiFi).

The registration fee does *not* include:

- Cost of phone calls.
- Special ordered drinks during lunch, dinner, in the evening, etc.

Organization

The meeting has been organized by Raffaella Carloni (University of Groningen), Bayu Jayawardhana (University of Groningen), and Mircea Lazar (Eindhoven University of Technology).

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Sponsor

The meeting is supported by the following organizations:

- Dutch Institute for Systems and Control (DISC).
- Netherlands Organization for Scientific Research (NWO).

Conference location

The lecture rooms of Kontakt der Kontinenten are situated on the ground and first floors. Consult the map at the end of this booklet to locate rooms. During the breaks, coffee and tea will be served in the St. Janzaal in the ground floor. Announcements and personal messages will be posted near the main conference room. Accommodation is provided in the conference center. Breakfast will be served between 6:30 and 9:30 AM. Room keys can be picked up at the reception from Tuesday at 12:30, and need to be returned before 9:30 on the day of departure. Parking is free of charge.

The address of Kontakt der Kontinenten is

Amersfoortsestraat 20
 3769 AS Soesterberg
 The Netherlands

Best junior presentation award

Continuing a tradition that started in 1996, the 37th Benelux Meeting will close with the announcement of the winner of the Best Junior Presentation Award. This award is given for the best presentation, given by a junior researcher, and it consists of a trophy that may be kept for one year and a certificate. The award is specifically given for quality of presentation rather than quality of research, which is judged in a different way. At the meeting, the chairs of sessions will ask three volunteers in the audience to fill out an evaluation form. After the session, the evaluation forms will be collected by the Prize Commissioners who will then compute a ranking. The winner will be announced on Thursday, March 29, in room **Steyl**, 13:10-13:25. The evaluation forms of each presentation will be returned to the junior researcher who gave the presentation. The Prize Commissioners are Bart Besselink (University of Groningen), Alessandro Saccon (Technical University of Eindhoven), and Johan Schoukens (Vrije Universiteit Brussel). The organizing committee counts on the cooperation of the participants to make this contest a success.

Website

An *electronic version* of the Book of Abstracts can be downloaded from the Benelux Meeting [web site](#).

Meetings

The following meetings are scheduled:

- Board DISC on Tuesday, March 27, 19:30 – 21:00 (during dinner).
- Management Team DISC on Tuesday, March 27, room Angola, 21:00 – 22:30.

DISC certificates and best thesis award

The ceremony for the distribution of the DISC certificates and for the Best Thesis Award will be held on Thursday, March 29, room **Steyl**, 12:50–13:10. The jury of the Best Thesis Award is formed by Hans Zwart (University of Twente), Manuel Mazo (Delft University of Technology), and Dennis Schipper (CEO Demcon).

Tuesday March 27, 2018

11:25 – 11:30	P0 – Steyl <i>Welcome and Opening</i>									
11:30 – 12:30	P1 – Steyl Murat Arcaç – <i>Networks of dissipative Systems: Compositional certification of stability, performance, and safety</i>									
12:30 – 13:40	Lunch									
13:40 – 14:40	P2 – Steyl Murat Arcaç – <i>Networks of dissipative Systems: Compositional certification of stability, performance, and safety</i>									
14:40 – 15:10	Coffee Break									
Room TuA	Steyl TuA01 <i>System Identification A</i>	Angola TuA02 <i>Optimal Control A</i>	Argentiinië TuA03 <i>Aerospace and Automotive Applications A</i>	Bolivia TuA04 <i>Distributed Control and Estimation A</i>	Botswana TuA05 <i>Model Reduction</i>	Congo TuA06 <i>Nonlinear Control A</i>	Mozambique TuA07 <i>Distributed Parameter Systems</i>	Kenia TuA08 <i>System Theory</i>		
15:10 – 15:35	Cox	Jiao	Nijnwoua	Ravensbergen	Bansal	Azizi	Lamoline	Kivitis		
15:35 – 16:00	Vasquez	Khalik	Creyf	Valk	Leung	Mounshizadeh	Califano	Pippia		
16:00 – 16:25	Evers	Jeltsema	Nguyen	Thunberg	Xia	Adibi	Zwart	Jia		
16:25 – 16:50	Vergauwen	Mercy	Nakano	Cucuzzella	Cheng	Stegink	Das	Rogov		
16:50 – 17:15	Birpoutsoukis	Van Damme	Rashad	Cajo	Merks	v/d Eijnden	Küper	Heidari		
17:15 – 17:40	Yan	Padilla	Oom	-	Lou	Verdier	Benjamin	Lauwers		
17:40 – 18:00	Break									
18:00 – 19:00	Reception									
19:30 – 21:00	Dinner									
19:30 – 21:00	Board DISC									
21:00 – 22:30	Management Team DISC (room Angola)									

Wednesday March 28, 2018

9:15 – 10:15	P3 – Steyl									
10:15 – 10:40	Murat Arcaç – <i>Networks of dissipative Systems: Compositional certification of stability, performance, and safety</i>									
	Coffee break									
10:40 – 11:40	P4 – Steyl									
11:40 – 12:00	Tamas Keviczky – <i>Distributed stochastic model predictive control for large-scale smart energy systems</i>									
12:00 – 13:10	Break									
	Lunch									
Room WeM	Steyl WeM01 <i>System Identification B</i>	Angola WeM02 <i>Optimal Control B</i>	Argentinië WeM03 <i>Aerospace and Automotive Applications B</i>	Bolivia WeM04 <i>Distributed Control and Estimation B</i>	Botswana WeM05 <i>Mechanical Engineering A</i>	Congo WeM06 <i>Nonlinear Control B</i>	Mozambique WeM07 <i>Model-based Control A</i>	Kenia WeM08 <i>System Biology</i>		
13:10 – 13:35	Decuyper	Hermans	Schinkel	Zhao	Almuzakki	Steinhauser	van den Hurk	Qin		
13:35 – 14:00	Schoukens	Van Parys	van Hoek	Chen	van der Weijst	Willems	de Baar	Jeanne		
14:00 – 14:25	Khandelwal	Singh	Reinders	Chan	Beerens	Borja-Rosales	Mendez-Blanco	Aalto		
14:25 – 14:50	Csurcsia	Mohan	Fahdzyana	Fransman	Gillis	Baez	Hanema	Merouane		
14:50 – 15:15	Steenjtes	Herceg	Verbruggen	Balaghiinaloo	Shakib	Berger	Veldman	De Becker		
15:15 – 15:40	van Berkel	Eising	Frejo	Jahanshahi	Prakash	Wu	Dresscher	-		
15:40 – 16:00	Break									
Room WeA	Steyl WeA01 <i>System Identification C</i>	Angola WeA02 <i>Optimization</i>	Argentinië WeA03 <i>Robotics A</i>	Bolivia WeA04 <i>Games and Agent-Based Models A</i>	Botswana WeA05 <i>Mechanical Engineering B</i>	Congo WeA06 <i>Nonlinear Control C</i>	Mozambique WeA07 <i>Model-based Control B</i>	Kenia WeA08 <i>State Observer and Estimation</i>		
16:00 – 16:25	Shi	Legat	Dolatabadi	Senejohnny	Mooren	Lefeber	Kuijpers	Voortman		
16:25 – 16:50	van Waarde	De Geeter	Pane	Catalano	Grubben	Cucuzzella	Jiang	Acciani		
16:50 – 17:15	Hendrickx	Vermeersch	van Duijkeren	Cenedese	Halfkamp	Sales Mazzoccante	Loonen	Blanken		
17:15 – 17:40	Weerts	Gillis	Douven	Geelen	van Mourik	Labar	Mondaca-Duarte	Beelen		
17:40 – 18:05	Turk	De Mauri	Yao	Gong	Blanken	Naderilordejani	Reijnen	Najafi		
18:05 – 18:30	Ramaswamy	Gillis	Cavallo	Engwerda	Hakan Kan-demir	Borja-Rosales	Porru	Andrian		
18:30 – 20:00	Dinner									

Thursday March 29, 2018

8:30 – 9:30	P5 – Steyl Dongheui Lee – <i>Robot learning through physical interaction and human guidance</i>									
9:30 – 9:45	Coffee break									
9:45 – 10:45	P6 – Steyl Dongheui Lee – <i>Robot learning through physical interaction and human guidance</i>									
Room	Steyl	Angola	Argentina	Bolivia	Botswana	Congo	Mozambique	Kenia		
ThM	-	ThM01 <i>Medical Applications</i>	ThM02 <i>Robotics B</i>	ThM03 <i>Games and Agent-Based Models B</i>	ThM04 <i>Electro-Mechanical Engineering</i>	ThM05 <i>Model-based Control C</i>	-	-	-	-
10:45 – 11:10	-	Themans	Altartouri	Belgioioso	Vasseur	Goorden	-	-	-	-
11:10 – 11:35	-	Deenen	Caasenbrood	Mazulina	De Preter	Strijbosch	-	-	-	-
11:35 – 12:00	-	Wang	Verbandt	Govaert	Goldar	Romo-Hernandez	-	-	-	-
12:00 – 12:25	-	Massart	Carlomi	Chevalier	Jeeninga	Jacobs	-	-	-	-
12:25 – 12:50	-	Dehem	Bono Rossello	Gueuning	Proimadis	Gillis	-	-	-	-
12:50 – 13:10	E1 – Steyl DISC Certificates & Best Thesis Award Ceremony									
13:10 – 13:25	E2 – Steyl <i>Best Junior Presentation Award Ceremony</i>									
13:25 – 13:30	P7 – Steyl <i>Closure of the 37th Benelux Meeting</i>									
13:30 – 14:30	<i>Lunch</i>									

