

# **5th Symposium on System Structure and Control 2013**

**Grenoble, France  
4-6 February 2013**

**Editors:**

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## 5th Symposium on System Structure and Control

### Technical Program for Monday February 4, 2013

MoAMT3	AUDITORIUM
<b>Structural Issues</b> (Regular Session)	
Chair: Boukhobza, Taha	Univ. de Lorraine
Co-Chair: Loiseau, Jean-Jacques	Inst. de Recherche en Communication et en Cybernétique
11:00-11:20	MoAMT3.1
<i>Finite Time Model Matching for Multivariable Linear Systems</i> , pp. 66-71.	
Lu, Hao	INSA de Lyon
Di Loreto, Michael	INSA de Lyon
11:20-11:40	MoAMT3.2
<i>Connectivity Condition for Structural Properties Using a Graph Theoretical Approach: Probabilistic Reliability Assessment</i> , pp. 72-77.	
Dakil, Manal	Univ. of Lorraine
Simon, Christophe	Univ. of Lorraine
Boukhobza, Taha	Univ. de Lorraine
11:40-12:00	MoAMT3.3
<i>Continuous-Time Lossless Systems, Boundary Interpolation and Pivot Structures</i> , pp. 78-83.	
Peeters, Ralf	Maastricht Univ.
Olivi, Martine	INRIA
Hanzon, Bernard	Univ. Coll. Cork
12:00-12:20	MoAMT3.4
<i>An Implicit Systems for Modelling and Control of Discrete Event Systems</i> , pp. 84-89.	
Kara, Redouane	Mouloud Mammeri Univ. of Tizi Ouzou
Becha, Tassadit	Mouloud Mammeri Univ. of Tizi Ouzou
Collart Dutilleul, Simon	Inst. Franais des sciences et Tech. des transports
Loiseau, Jean-Jacques	IRCCyN - Ec. Centrale de Nantes
12:20-12:40	MoAMT3.5
<i>Cyclic Condition of Simultaneous Stabilizability for Three Linear Systems in a Behavioral Framework</i> , pp. 90-95.	
Kaneko, Osamu	Kanazawa Univ.
12:40-13:00	MoAMT3.6
<i>High Performance Sliding Mode Tracking Control for Nonminimum Phase Systems</i> , pp. 96-101.	
Patil, Machhindranath	Indian Inst. of Tech. Bombay
Bandyopadhyay, Bijan	Indian Inst. of Tech. Bombay
MoPM1T3	AUDITORIUM
<b>Linear Systems</b> (Regular Session)	
Chair: Perdon, Anna Maria	Univ. Pol. delle Marche
Co-Chair: Fiacchini, Mirko	GIPSA-Lab. CNRS
14:30-14:50	MoPM1T3.1
<i>A Geometric Approach to Output Regulation for Linear Switching Systems</i> , pp. 172-177.	
Zattoni, Elena	Univ. of Bologna
Perdon, Anna Maria	Univ. Pol. delle Marche
Conte, Giuseppe	Univ. Pol. delle Marche

14:50-15:10	MoPM1T3.2
<i>Gramians Method in Researches of the Model Order Reduction and Dynamic LTI System Stability Problems</i> , pp. 178-183.	
Yadykin, Igor	Inst. of Control Sciences RAS
Afanas'ev, Valery	Moscow Inst. of Electronics and Mathematics
Grobovoy, Andrey	Power System Emergency Control Lab. Ltd
15:10-15:30	MoPM1T3.3
<i>New Sufficient LMI Conditions for Static Output Stabilization</i> , pp. 184-189.	
Adegas, Fabiano Daher	Aalborg Univ.
15:30-15:50	MoPM1T3.4
<i>Embedding of Uncertainty Propagation: Application to Hierarchical Performance Analysis</i> , pp. 190-195.	
Dinh, Marc	Astrium - Satellites
Kornienko, Anton	Ec. Centrale de Lyon
Scorletti, Gerard	Ec. Centrale de Lyon
15:50-16:10	MoPM1T3.5
<i>Necessary and Sufficient Condition for Stabilizability of Discrete-Time Linear Switched Systems: A Set-Theory Approach</i> , pp. 196-201.	
Fiacchini, Mirko	GIPSA-Lab. Univ. de Grenoble
Jungers, Marc	CNRS - Univ. de Lorraine
16:10-16:30	MoPM1T3.6
<i>State Space Model Identification: From Unstructured to Structured Models with an H<sub>∞</sub> Approach</i> , pp. 202-207.	
Bergamasco, Marco	Pol. di Milano
Lovera, Marco	Pol. di Milano
MoPL2G	AUDITORIUM
<b>Plenary 2: Pr. Nicolas Petit</b> ()	
Chair: Bokor, Jozsef	Hungarian Acad. of Sciences
Co-Chair: Dugard, Luc	CNRS-INPG-UJF
17:00-18:00	MoPL2G.1
<i>Model-Based Control of Automotive Engines and After-Treatment Devices</i> , pp. 208-208.	
Petit, Nicolas	MINES ParisTech
MoPM2T3	AUDITORIUM
<b>Algebraic and Symbolic Methods in Mathematical Systems Theory</b> (Invited Session)	
Chair: Quadrat, Alban	INRIA Saclay - Ile-de-France
Co-Chair: Regensburger, Georg	Austrian Acad. of Sciences
Organizer: Quadrat, Alban	INRIA Saclay - Ile-de-France
Organizer: Regensburger, Georg	Austrian Acad. of Sciences
18:00-18:20	MoPM2T3.1
<i>Further Results on the Decomposition and Serre's Reduction of Linear Functional Systems (I)</i> , pp. 284-284 J.	
Cluzeau, Thomas	Univ. de Limoges (XLIM, ENSI)
Quadrat, Alban	INRIA Saclay - Ile-de-France
18:20-18:40	MoPM2T3.2
<i>On a Differential Algebraic System Structure Theory (I)</i> , pp. 285-285 J.	

Diop, Sette	CNRS
Ait-Amirat, Youcef	Univ. of Franche-Comté
18:40-19:00	MoPM2T3.3
<i>Thomas Decompositions of Parametric Nonlinear Control Systems (I)</i> , pp. 296-304.	
Lange-Hegermann, Markus	RWTH Aachen Univ.
Robertz, Daniel	RWTH Aachen Univ.
19:00-19:20	MoPM2T3.4
<i>The Asymptotic Stability of Stable and Time-Autonomous Discrete Multidimensional Behaviors (I)</i> , pp. 302-311.	
Oberst, Ulrich	Univ. of Innsbruck
Scheicher, Martin	Univ. of Innsbruck
19:20-19:40	MoPM2T3.5
<i>Polynomial Solutions and Annihilators of Ordinary Integro-Differential Operators (I)</i> , pp. 308-317.	
Quadrat, Alban	INRIA Saclay - Ile-de-France
Regensburger, Georg	Austrian Acad. of Sciences
19:40-20:00	MoPM2T3.6
<i>Stafford's Reduction of Linear Partial Differential Systems (I)</i> , pp. 314-323.	
Quadrat, Alban	INRIA Saclay - Ile-de-France
Robertz, Daniel	RWTH Aachen Univ.

#### Technical Program for Tuesday February 5, 2013

<b>TuAMT3</b>	AUDITORIUM
<b>Variable Structure Systems: Sliding Mode Control and Observation</b> (Invited Session)	
Chair: Plestan, Franck	Ec. Centrale De Nantes-CNRS
Co-Chair: Usai, Elio	Univ. degli Studi di Cagliari
Organizer: Plestan, Franck	Ec. Centrale De Nantes-CNRS
Organizer: Usai, Elio	Univ. degli Studi di Cagliari
08:30-08:50	TuAMT3.1
<i>Robustness of Finite-Time Stability Property for Sliding Modes (I)</i> , pp. 391-401.	
Bernuau, Emmanuel	Ec. centrale de Lille
Polyakov, Andrey	INRIA Lille Nord-Europe
Efimov, Denis	INRIA Lille Nord-Europe
Perruquetti, Wilfrid	Ec. Centrale de Lille
08:50-09:10	TuAMT3.2
<i>Hybrid-Impulsive Second Order Sliding Mode Control: Lyapunov Approach (I)</i> , pp. 397-406.	
Shtessel, Yuri B.	Univ. of Alabama at Huntsville
Glumineau, Alain	IRCCyN - Ec. Centrale de Nantes
Plestan, Franck	IRCCyN - Ec. Centrale de Nantes
Weiss, Martin	TNO Defense
09:10-09:30	TuAMT3.3
<i>High Order Sliding Mode: Is It Useful in the Design of Observer under Sparse Measurement? (I)</i> , pp. 403-411.	
Khaled, Yassine	ENSEA
Barbot, Jean Pierre	ENSEA
Benmerzouk, Djamilia	Tlemcen Univ.
Busawon, Krishna K.	Northumbria Univ.
09:30-09:50	TuAMT3.4
<i>Multi-Input Sliding Mode Control of Nonlinear Uncertain Non-Affine Systems with Mono-Directional Actuation (I)</i> , pp. 109-118.	
Bartolini, Giorgio	Univ. of Cagliari
Punta, Elisabetta	National Res. Council of Italy -

09:50-10:10	TuAMT3.5
<i>Decentralised Output Feedback Variable Structure Control for Large Scale Time Delay Systems (I)</i> , pp. 415-424.	
Yan, Xing-Gang	Univ. of Kent
Spurgeon, Sarah K.	Univ. of Kent
10:10-10:30	TuAMT3.6
<i>Decentralized State Estimation in Connected Systems (I)</i> , pp. 421-430.	
Pilloni, Alessandro	Univ. of Cagliari
Usai, Elio	Univ. of Cagliari
Edwards, Christopher	Univ. of Exeter
Pisano, Alessandro	Univ. of Cagliari
Menon, Prathyush P	Univ. of Exeter

<b>TuPM1T3</b>	AUDITORIUM
<b>Control of Complex Systems : Structural Methods (Part 1)</b> (Invited Session)	
Chair: Karcnias, Nicos	City Univ. London
Co-Chair: Malabre, Michel	IRCCyN, UMR CNRS 6597
Organizer: Karcnias, Nicos	City Univ. London
Organizer: Malabre, Michel	IRCCyN, UMR CNRS 6597

13:30-13:50	TuPM1T3.1
<i>Minimal Decoupling Indices for Linear Systems (I)</i> , pp. 1-10.	
Lafay, Jean-Francois	Ec. Centrale Nantes

13:50-14:10	TuPM1T3.2
<i>Some Structural Characterizations of Linear Descriptor Systems (I)</i> , pp. 504-513.	
Lebret, Guy	IRCCyN - Ec. Centrale de Nantes
Bonilla, Moises E.	CINVESTAV-IPN

14:10-14:30	TuPM1T3.3
<i>Some Complements about Reachability and Pole Placement for Implicit Systems (I)</i> , pp. 510-519.	
Bonilla, Moises E.	CINVESTAV-IPN
Lebret, Guy	IRCCyN - Ec. Centrale de Nantes
Malabre, Michel	IRCCyN - Ec. Centrale de Nantes
Loiseau, Jean-Jacques	IRCCyN - Ec. Centrale de Nantes

14:30-14:50	TuPM1T3.4
<i>Parameterisation of Degenerate Solutions of the Determinantal Assignment Problem (I)</i> , pp. 516-525.	
Karcnias, Nicos	City Univ. London
Leventides, John G	Univ. of Athens
Meintanis, Ioannis	City Univ. London

14:50-15:10	TuPM1T3.5
<i>Controllability through Input Addition for Graph-Based Systems (I)</i> , pp. 522-531.	
Commault, Christian.	GIPSA-Lab. Univ. de Grenoble
Dion, Jean-Michel	GIPSA-Lab. Univ. de Grenoble

<b>TuPM2T3</b>	AUDITORIUM
<b>Control of Complex Systems : Structural Methods (Part 2)</b> (Invited Session)	
Chair: Malabre, Michel	IRCCyN, UMR CNRS 6597
Co-Chair: Karcnias, Nicos	City Univ. London
17:00-17:20	TuPM2T3.1
<i>Approximate Solutions of the Determinantal Assignment</i>	



Dumur, Didier	Supélec
11:00-12:30	WePL3T4.7
<i>Simultaneous Air Fraction and Low-Pressure EGR Mass Flow Rate Estimation for Diesel Engines</i> , pp. 731-736.	
Castillo, Felipe	Renault SAS - GIPSA Lab.
Witrant, Emmanuel	GIPSA-Lab. Univ. de Grenoble
Talon, Vincent	Renault SAS
Dugard, Luc	GIPSA-Lab. Univ. de Grenoble
11:00-12:30	WePL3T4.8
<i>Input Optimization for Observability of State Affine Systems</i> , pp. 737-742.	
Rubio Scola, Ignacio	GIPSA-Lab. Univ. de Grenoble
Besancon, Gildas	GIPSA-Lab. Univ. de Grenoble
Georges, Didier	GIPSA-Lab. Univ. de Grenoble
11:00-12:30	WePL3T4.9
<i>From PD to Nonlinear Adaptive Depth-Control of a Tethered Autonomous Underwater Vehicle</i> , pp. 743-748.	
Maalouf, Divine	LIRMM,Univ. Montpellier 2
Torres, Ivan	Lab. Franco-Mexicain d'Informatique et Automatique
Campos, Eduardo	Lab. Franco-Mexicain d'Informatique et Automatique
Chemori, Ahmed	LIRMM,Univ. Montpellier 2
Creuze, Vincent	LIRMM,Univ. Montpellier 2
Torres Muñoz, J.A.	Lab. Franco-Mexicain d'Informatique et Automatique
Lozano, Rogelio	Lab. Franco-Mexicain d'Informatique et Automatique
11:00-12:30	WePL3T4.10
<i>Online Implementation of an Integrated Explicit and Nonlinear Model Predictive Control (exNMPC) Framework for a PEM Fuel Cell System</i> , pp. 749-754.	
Ziougou, Chrysovalantou	Center for Res. and Tech. Hellas (CERTH)
Papadopoulou, Simira	Alexander Tech. Educational Inst. of Thessaloniki
Voutetakis, Spyros	Center for Res. and Tech. Hellas (CERTH)
Georgiadis, Michael	Aristotle Univ. of Thessaloniki
11:00-12:30	WePL3T4.11
<i>Geometric Discretization for a Plasma Control Model</i> , pp. 755-760.	
Lefevre, Laurent	LCIS, ESISAR
Vu, Trang	LCIS, ESISAR
Nouaillietas, Rémy	CEA Cadarache, IRFM
Bremond, Sylvain	CEA Cadarache, IRFM
11:00-12:30	WePL3T4.12
<i>State and Parameter Estimation for Time-Varying Systems: A Takagi-Sugeno Approach</i> , pp. 761-766.	
Bezzaoucha, Souad	CRAN, Univ. de Lorraine
Marx, Benoit	CRAN, Univ. de Lorraine
Maquin, Didier	CRAN, Univ. de Lorraine
Ragot, Jose	CRAN, Univ. de Lorraine
11:00-12:30	WePL3T4.14
<i>Anti-Windup Design for Saturation Management During Piezo-Actuated Vibration Attenuation of the High-Speed Parallel Robot Par2</i> , pp. 773-777.	
Douat, Luiz Ricardo	LAAS-CNRS
Queinnec, Isabelle	LAAS-CNRS
Garcia, Germain	LAAS-CNRS
Michelin, Micaël	Fatronik France Tecnalia

Pierrot, Francois	LIRMM
Tarbouriech, Sophie	LAAS-CNRS
11:00-12:30	WePL3T4.15
<i>Backstepping and Flatness Approaches for Stabilization of the Stick-Slip Phenomenon for Drilling</i> , pp. 779-784.	
Sagert, Conrad	Univ. of Stuttgart
Di Meglio, Florent	Univ. of California at San Diego
Krstic, Miroslav	Univ. of California at San Diego
Rouchon, Pierre	Mines-ParisTech
11:00-12:30	WePL3T4.16
<i>Gain Scheduling Control of a Gravimetric Blender with Vibrant Duct</i> , pp. 785-790.	
Belloli, Damiano	Pol. di Milano
Previdi, Fabio	Univ. degli Studi di Bergamo
Cognigni, Alberto Luigi	Univ. degli studi di Bergamo
Madaschi, Matteo Giacomo	Univ. degli Studi di Bergamo
Cazzola, Daniele	Doteco S.p.A.
11:00-12:30	WePL3T4.17
<i>Parameter Reduction for Disturbance Attenuation with a Discrete-Time LPV Controller</i> , pp. 791-796.	
Fueger, Tobias	Federal Armed Forces Univ. Munich
Lachhab, Nabil	Federal Armed Forces Univ. Munich
Svaricek, Ferdinand	Federal Armed Forces Univ. Munich
11:00-12:30	WePL3T4.18
<i>Clutch-Based Launch Controller Design for Sport Motorcycles</i> , pp. 797-802.	
Giani, Paolo	Pol. di Milano
Tanelli, Mara	Pol. di Milano
Scaglioni, Bruno	Pol. di Milano
Savaresi, Sergio	Pol. di Milano
Santucci, Mario	Piaggio & C. S.p.A.
11:00-12:30	WePL3T4.19
<i>Design of Optimal Cruise Control Considering Road and Traffic Information</i> , pp. 803-808.	
Németh, Balázs	Budapest Univ. of Tech. and Ec.
Csikós, Alfréd	Budapest Univ. of Tech. and Ec.
Gaspar, Peter	Hungarian Acad. of Sciences
Varga, Istvan	Hungarian Acad. of Sciences
11:00-12:30	WePL3T4.20
<i>A New LPV/Hinf Global Chassis Control through Load Transfer Distribution and Vehicle Stability Monitoring</i> , pp. 809-814.	
Fergani, Soheib	GIPSA-Lab. Univ. de Grenoble
Sename, Olivier	GIPSA-Lab. Univ. de Grenoble
Dugard, Luc	GIPSA-Lab. Univ. de Grenoble
11:00-12:30	WePL3T4.21
<i>Constrained Control Design for Linear Systems with Geometric Adversary Constraints</i> , pp. 815-820.	
Prodan, Ionela	Supélec
Bitsoris, George	Univ. of Patras
Olaru, Sorin	Supélec
Stoica, Cristina Nicoleta	Supélec
Niculescu, Silviu-Iulian	Lab. of Signals and Systems (L2S)
11:00-12:30	WePL3T4.22
<i>Heart Rate/Cycling Power Control System</i> , pp. 821-826.	
Mohammad, Sami	Univ. de Valenciennes et du

	Hainaut-Cambrésis
Guerra, Thierry Marie	Univ. de Valenciennes et du Hainaut-Cambrésis
Hecquet, Bernard	SRDEP Company
Grobois, Jean-Marie	SRDEP Company
11:00-12:30	WePL3T4.23
<i>Averaged Port-Hamiltonian Modeling Based Observer for DC-DC Power Converters</i> , pp. 827-833 H G	
Meghnous, Ahmed-Rédha	INSA de Lyon
Pham, Minh Tu	INSA de Lyon
Lin-Shi, Xuefang	INSA de Lyon
11:00-12:30	WePL3T4.25
<i>MPC for a Low Consumption Electric Vehicle with Time-Varying Constraints</i> , pp. 833-840 H .	
Manrique, Tatiana	CRAN, Univ. of Lorraine
Fiacchini, Mirko	GIPSA-Lab. Univ. de Grenoble
Chambrion, Thomas	INRIA, Univ. of Lorraine
Millerioux, Gilles	CRAN, Univ. of Lorraine
11:00-12:30	WePL3T4.26
<i>YALTA : A Matlab Toolbox for the Hinfity-Stability Analysis of Classical and Fractional Systems with Commensurate Delays</i> , pp. 839-847 I I .	
Avanesoff, David	Inria Saclay-Ile-de-France
Fioravanti, André R.	Unicamp
Bonnet, Catherine	Inria Saclay-Ile-de-France
11:00-12:30	WePL3T4.27
<i>Adaptive Semi-Active Suspension Design Using Gain-Scheduling (I)</i> , pp. 845-851 I €	
Lozoya-Santos, Jorge de Jesus	Tecnologico de Monterrey
Morales-Menendez, Ruben	Tecnologico de Monterrey
Ramírez-Mendoza, Ricardo A.	Tecnologico de Monterrey
Sename, Olivier	GIPSA-Lab. Univ. de Grenoble
Dugard, Luc	GIPSA-Lab. Univ. de Grenoble
11:00-12:30	WePL3T4.28
<i>Design of an Adaptive Predictive Control Strategy for a MIMO Process (I)</i> , pp. 851-857 I I .	
Raimondi, Angelo	Tecnologico de Monterrey
Favela, Antonio	Tecnologico de Monterrey
Vargas-Martínez, Adriana	Tecnologico de Monterrey
Garza-Castañón, Luis	Tecnologico de Monterrey
Morales-Menendez, Ruben	Tecnologico de Monterrey
11:00-12:30	WePL3T4.29
<i>Fault Tolerant Control for a Second Order LPV System Using Adaptive Control Methods (I)</i> , pp. 857-863 I G	
Vargas-Martínez, Adriana	Tecnologico de Monterrey
Garza-Castañón, Luis	Tecnologico de Monterrey
Puig, Vicenc	Univ. Pol. de Catalunya
Morales-Menendez, Ruben	Tecnologico de Monterrey
11:00-12:30	WePL3T4.30
<i>Fault Diagnosis of Electrical Power Systems Using Soft Computing (I)</i> , pp. 863-871 I .	
Nieto, Juan Pablo	Corp. Mexicana de Investigación en Materiales
Garza-Castañón, Luis	Tecnologico de Monterrey
El hajjaji, Ahmed	Univ. de Picardie-Jules Verne
Rabhi, Abdelhamid	Univ. de Picardie-Jules Verne
Morales-Menendez, Ruben	Tecnologico de Monterrey
11:00-12:30	WePL3T4.31

*Comparison between a Model-Free and Model-Based Controller of an Automotive Semi-Active Suspension System (I)*, pp. 869-875 I I .

Tudón-Martínez, Juan Carlos	Tecnologico de Monterrey
Morales-Menendez, Ruben	Tecnologico de Monterrey
Ramírez-Mendoza, Ricardo A.	Tecnologico de Monterrey
Sename, Olivier	GIPSA-Lab. Univ. de Grenoble
Dugard, Luc	GIPSA-Lab. Univ. de Grenoble

11:00-12:30 WePL3T4.32

*Review on Global Chassis Control (I)*, pp. 875-881 I €

Vivas Lopez, Carlos Alberto	Tecnologico de Monterrey
Morales-Menendez, Ruben	Tecnologico de Monterrey
Tudón-Martínez, Juan Carlos	Tecnologico de Monterrey
Hernandez-Alcantara, Diana	Tecnologico de Monterrey

**WePM2T3** AUDITORIUM  
**Nonlinear and Input Constraint Systems (Regular Session)**

Chair: Gutman, Per-Olof	Tech. - Israel Inst. of Tech.
Co-Chair: Gomes Da Silva Jr, Joao Manoel	Univ. Federal do Rio Grande do Sul (UFRGS)

15:00-15:20 WePM2T3.1

*Robust Optimization-Based Control of Constrained Linear Discrete Time Systems with Bounded Disturbances*, pp. 917-923 I G G

Nguyen, Hoai-Nam	Tech. - Israel Inst. of Tech.
Gutman, Per-Olof	Tech. - Israel Inst. of Tech.
Olaru, Sorin	Supelec
Hovd, Morten	Norwegian Univ. of Tech. and Science

15:20-15:40 WePM2T3.2

*Constrained Control for Linear Time-Varying Systems in the Presence of Disturbances*, pp. 923-929 I G .

Nguyen, Hoai-Nam	Tech. - Israel Inst. of Tech.
Olaru, Sorin	Supelec
Gutman, Per-Olof	Tech. - Israel Inst. of Tech.
Hovd, Morten	Norwegian Univ. of Tech. and Science

15:40-16:00 WePM2T3.3

*Adaptive Observer Based Fault Diagnosis Applied to Differential-Algebraic Systems*, pp. 929-935 I H .

Moussa Ali, Abdouramane	Inria Rennes - Bretagne Atlantique
Zhang, Qinghua	Inria Rennes - Bretagne Atlantique

16:00-16:20 WePM2T3.4

*Anti-Windup Design with Guaranteed Stability Regions for Resonant and Repetitive Controllers*, pp. 935-941 I €

Vieira Flores, Jeferson	Univ. Federal do Rio Grande do Sul (UFRGS)
Gomes Da Silva Jr, Joao Manoel	Univ. Federal do Rio Grande do Sul (UFRGS)
Messaoud, Hassani	ENIM, Monastir

16:40-17:00 WePM2T3.6

*Sliding Mode Control of Markovian Jump Systems with Partly Unknown Transition Probabilities*, pp. 947-953 I G

Zohrabi, Nasibeh	Tarbiat Modares Univ. of Tehran
Momeni, Hamidreza	Tarbiat Modares Univ. of Tehran
Abolmasoumi, Amir Hossein	Tarbiat Modares Univ. of Tehran