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Eric Walter

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| Poznyak, Alexander S. | CINVESTAV-IPN | |
| 15:10-15:30 | | MoB4.3 |
| <i>Process Identification from Sinusoidal Test Data by Estimating Step Response</i> , pp. 396-401. | | |
| Ahmed, Salim | Univ. of Qatar | |
| Huang, Biao | Univ. of Alberta | |
| Shah, Sirish | Univ. of Alberta | |
| 15:30-15:50 | | MoB4.4 |
| <i>Multi-Sinusoidal Signal Estimation by an Adaptive SOGI-Filters Bank</i> , pp. 402-407. | | |
| Fedele, Giuseppe | Univ. della Calabria | |
| Ferrise, Andrea | Univ. della Calabria | |
| Frascono, Domenico | Univ. della Calabria | |
| 15:50-16:10 | | MoB4.5 |
| <i>Output Error Identification Algorithms for Continuous-Time Systems Operating in Closed-Loop</i> , pp. 408-413. | | |
| Carrillo, Francisco | ENIT, Tarbes | |
| Baysse, Arnaud | ENIT, Tarbes | |
| Habbadi, Abdallah | ENIT, Tarbes | |
| 16:10-16:30 | | MoB4.6 |
| <i>Novel Closed-Loop Identification Algorithm Based on the Finite-Dimensional Signal Subspace</i> , pp. 414-419. | | |
| Maruta, Ichiro | Kyoto Univ. | |
| Sugie, Toshiharu | Kyoto Univ. | |

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| MoB5 | | Bouvet Room 1 |
| Recursive Identification (Regular Session) | | |
| Chair: Chen, Han Fu | AMSS, Chinese Acad. of Sciences | |
| Co-Chair: Zhu, Yucai | Eindhoven Univ. of Tech. | |
| 14:30-14:50 | | MoB5.1 |
| <i>A Unified Approach to Recursive System Identification</i> , pp. 420-425. | | |
| Chen, Han Fu | AMSS, Chinese Acad. of Sciences | |
| 14:50-15:10 | | MoB5.2 |
| <i>Online Algorithms for the Construction of Guaranteed Confidence Sets for the Parameters of Time-Varying Systems</i> , pp. 426-431. | | |
| Layton, Kelvin Jon | Univ. of Melbourne | |
| Weyer, Erik | Univ. of Melbourne | |
| Campi, Marco | Univ. of Brescia | |
| 15:10-15:30 | | MoB5.3 |
| <i>Time Variable Parameter Estimation</i> , pp. 432-437. | | |
| Young, Peter | Lancaster Univ. | |
| 15:30-15:50 | | MoB5.4 |
| <i>Self-Optimizing Real-Valued Generalized Adaptive Notch Filter</i> , pp. 438-443. | | |
| Niedzwiecki, Maciej Jan | Gdansk Univ. of Tech. | |
| Sobocinski, Adam | Gdansk Univ. of Tech. Faculty of Electronics, Telecomm | |
| 15:50-16:10 | | MoB5.5 |
| <i>Improve Recursive Identification Using Multi-Iteration</i> , pp. 444-449. | | |
| Zhang, Xiangping | National Univ. of Defence Tech. | |
| Zhu, Yucai | Eindhoven Univ. of Tech. | |

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| van den Bosch, P. P. J. | Eindhoven Univ. of Tech. |
| <i>Linear Fractional Transformation Identification Using Retrospective Cost Optimization</i> , pp. 450-455. | |
| D'Amato, Anthony | Univ. of Michigan |
| Bernstein, Dennis S. | Univ. of Michigan |
| MoB6 | Bouvet Room 2 |
| Mechanical and Aerospace I (Regular Session) | |
| Chair: Picci, Giorgio | Univ. of Padova |
| Co-Chair: Remond, Didier | Inst. Nat. des Sciences Appliquées |
| 14:30-14:50 | MoB6.1 |
| <i>Discrete Mechanical Systems: Second Order Modeling and Identification</i> , pp. 456-461. | |
| Bruschetta, Mattia | Univ. of Padova |
| Picci, Giorgio | Univ. of Padova |
| Saccon, Alessandro | Univ. of Padova |
| 14:50-15:10 | MoB6.2 |
| <i>Design, Modeling and Stabilization of a Moment Exchange Based Inverted Pendulum</i> , pp. 462-467. | |
| de Callafon, Raymond | Univ. of California, San Diego |
| Meyer, Jordan | Univ. of California, San Diego |
| Delson, Nathan | Univ. of California, San Diego |
| 15:10-15:30 | MoB6.3 |
| <i>Control-Oriented Steering Dynamics Analysis in Sport Motorcycles: Modeling, Identification and Experiments</i> , pp. 468-473. | |
| Tanelli, Mara | Pol. di Milano |
| Corno, Matteo | Pol. di Milano |
| De Filippi, Pierpaolo | Pol. di Milano |
| Rossi, Stefano | Pol. di Milano |
| Savaresi, Sergio | Pol. di Milano |
| Fabbri, Luca | Piaggio Group |
| 15:30-15:50 | MoB6.4 |
| <i>Robust Identification of Nonlinear Frictional Dynamics for Advanced Controller Design</i> , pp. 474-479. | |
| Ruderman, Michael | Tech. Univ. Dortmund |
| Hoffmann, Frank | Tech. Univ. Dortmund |
| Krettek, Johannes | Tech. Univ. Dortmund |
| Jan, Brain | Tech. Univ. Dortmund |
| Bertram, Torsten | Tech. Univ. Dortmund |
| 15:50-16:10 | MoB6.5 |
| <i>Using the Instrumental Variable Method for Robots Identification</i> , pp. 480-485. | |
| Janot, Alexandre | HAPTION S.A. |
| Vandanjon, Pierre-Olivier | Lab. Central des Ponts et Chaussées |
| Gautier, Maxime | IRCCyN |
| 16:10-16:30 | MoB6.6 |
| <i>Modal Behavior Monitoring of a Discrete Evolutive Structure</i> , pp. 486-491. | |
| Remond, Didier | Inst. Nat. des Sciences Appliquées de Lyon |
| Renaudin, Laurence | Inst. Nat. des Sciences Appliquées de Lyon |
| MoB7 | Charcot Room |
| Software Demonstration I (Invited Session) | |
| Chair: Schumann, Reimar | Univ. of Applied Sciences and Arts |
| Co-Chair: Ravn, Ole | Tech. Univ. of Denmark |
| Organizer: Schumann, Reimar | Univ. of Applied Sciences and Arts |
| 14:30-16:30 | MoB7.1 |
| <i>Object-Oriented Signal Generation Program (I)</i> , pp. 492-497. | |
| Barker, H. Anthony | Swansea Univ. |
| Tan, Ai Hui | Multimedia Univ. |
| Godfrey, Keith Richard | Univ. of Warwick |
| 14:30-16:30 | MoB7.2 |
| <i>Adaplab-3: Finite-Frequency Identification and Adaptation Toolbox for Matlab (I)</i> , pp. 498-503. | |
| Mikhaylova, Ljubov | Elektrostal Pol. Inst. a |
| Alexandrov, A. G. | Moscow Steel & Alloys Inst. |
| Orlov, Yuriy | Elektrostal Pol. Inst. of Moscow State Inst. St |
| 14:30-16:30 | MoB7.3 |
| <i>ALANDA for Configuration-Free Analysis of Process Data (I)</i> , pp. 504-509. | |
| Soemers, Marcus | Aixcape |
| Alsmeyer, Frank | Aixcape |
| 14:30-16:30 | MoB7.4 |
| <i>A Software Framework and Tool for Nonlinear State Estimation (I)</i> , pp. 510-515. | |
| Straka, Ondrej | Univ. of West Bohemia |
| Flídr, Miroslav | Univ. of West Bohemia |
| Dunik, Jindrich | Univ. of West Bohemia |
| Simandl, Miroslav | Univ. of West Bohemia |
| 14:30-16:30 | MoB7.5 |
| <i>Comparing Mobile Robot Localisation Algorithms Using Kalmtool (I)</i> , pp. 516-521. | |
| Mogensen, Lars V. | Tech. Univ. of Denmark |
| Hansen, Sřren | Tech. Univ. of Denmark |
| Ravn, Ole | Tech. Univ. of Denmark |
| Poulsen, Niels Kjølstad | Tech. Univ. of Denmark |

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| 14:30-16:30 | | MoB7.6 |
| <i>Developments in MathWorks System Identification Toolbox (I)</i> , pp. 522-527. | | |
| Ljung, Lennart | | Linköping Univ. |
| Singh, Rajiv | | The Mathworks, Inc |
| Zhang, Qinghua | | INRIA |
| Lindskog, Peter | | NIRA Dynamics |
| Juditsky, Anatoly | | Univ. Grenoble I |

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| MoC1 | | Auditorium Chateaubriand |
| Bayesian Methods (Regular Session) | | |
| Chair: Schön, Thomas Bo | | Linköping Univ. |
| Co-Chair: Pillonetto, Gianluigi | | Univ. of Padova |
| 17:00-17:20 | | MoC1.1 |
| <i>Nonlinear System Identification Via Gaussian Regression and Mixtures of Kernels</i> , pp. 528-533. | | |
| Ha Quang, Minh | | Humboldt Univ. zu Berlin |
| Pillonetto, Gianluigi | | Univ. of Padova |
| Chiuso, Alessandro | | Univ. of Padova |
| 17:20-17:40 | | MoC1.2 |
| <i>Parameter Estimation with Partial Forgetting Method</i> , pp. 534-539. | | |
| Dedecius, Kamil | Inst. of Information Theory and Automation, Prague | |
| Nagy, Ivan | Inst. of Information Theory and Automation, Prague | |
| Karny, Miroslav | Inst. of Information Theory and Automation, Prague | |
| Pavelkova, Lenka | Inst. of Information Theory and Automation, Prague | |
| 17:40-18:00 | | MoC1.3 |
| <i>Robust Point-Mass Filters on Manifolds</i> , pp. 540-545. | | |
| Tidefelt, Henrik | | Linköping Univ. |
| Schön, Thomas Bo | | Linköping Univ. |
| 18:00-18:20 | | MoC1.4 |
| <i>A Sequential Bayesian Algorithm to Estimate a Probability of Failure</i> , pp. 546-550. | | |
| Vazquez, Emmanuel | | Supelec |
| Bect, Julien | | Supelec |
| 18:20-18:40 | | MoC1.5 |
| <i>Log-Normal Merging for Distributed System Identification</i> , pp. 551-556. | | |
| Smidl, Vaclav | Inst. of Information Theory and Automation, Prague | |
| Karny, Miroslav | Inst. of Information Theory and Automation, Prague | |
| 18:40-19:00 | | MoC1.6 |
| <i>Fuzzy and Bayesian Algorithms for Nonlinear Estimation Problem</i> , pp. 557-562. | | |
| Stepanov, Oleg A. | Central Scientific Res. Inst. Elektropribor | |
| Vasiliev, Vladimir | Sant-Peterburg State Univ. | |

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| MoC2 | | Amphitheatre Maupertuis |
| Current Trends in Identification of Switched and Piecewise Affine Systems (Invited Session) | | |
| Chair: Paoletti, Simone | | Univ. di Siena |
| Co-Chair: Garulli, Andrea | | Univ. di Siena |
| Organizer: Paoletti, Simone | | Univ. di Siena |
| Organizer: Garulli, Andrea | | Univ. di Siena |
| Organizer: Vidal, Rene | | Johns Hopkins Univ. |
| 17:00-17:20 | | MoC2.1 |
| <i>A Product-Of-Errors Framework for Linear Hybrid System Identification (I)</i> , pp. 563-568. | | |
| Lauer, Fabien | | Univ. of Nancy |
| Vidal, Rene | | Johns Hopkins Univ. |
| Bloch, Gerard | | Univ. of Nancy |
| 17:20-17:40 | | MoC2.2 |
| <i>Identification of Switched Linear State Space Models without Dwell Time (I)</i> , pp. 569-574. | | |
| Bako, Laurent | Ec. des Mines de Douai | |
| Mercère, Guillaume | Univ. de Poitiers | |
| Vidal, Rene | Johns Hopkins Univ. | |
| Lecoeuche, Stéphane | Mines de Douai | |
| 17:40-18:00 | | MoC2.3 |
| <i>Parameter Bounds Evaluation for Linear Systems with Output Backlash (I)</i> , pp. 575-580. | | |
| Cerone, Vito | Pol. di Torino | |
| Piga, Dario | Pol. di Torino | |
| Regruto, Diego | Pol. di Torino | |
| 18:00-18:20 | | MoC2.4 |
| <i>Exploiting Structure in Piecewise Affine Identification of LFT Systems (I)</i> , pp. 581-586. | | |
| Paoletti, Simone | Univ. di Siena | |
| Garulli, Andrea | Univ. di Siena | |
| Pepona, Eleni | Brunel Univ. | |
| Date, Paresh | Brunel Univ. | |

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| 18:20-18:40 | | MoC2.5 |
| | <i>Identification of Parameters and Structure of Piecewise Affine Models of Genetic Networks (I)</i> , pp. 587-592. | |
| | Porreca, Riccardo | Univ. di Pavia |
| | Drulhe, Samuel | Univ. Joseph Fourier |
| | de Jong, Hidde | INRIA Rhône-Alpes |
| | Ferrari-Trecate, Giancarlo | Univ. degli Studi di Pavia |
| 18:40-19:00 | | MoC2.6 |
| | <i>Realization Theory of Discrete-Time Linear Hybrid System (I)</i> , pp. 593-598. | |
| | Petreczky, Mihaly | Eindhoven Univ. of Tech. |
| | van Schuppen, Jan H. | CWI |

| MoC3 | | Vauban Room 1 |
|--|--|---|
| Frequency Domain Identification (Regular Session) | | |
| | Chair: Van den Hof, Paul M.J. | Delft Univ. of Tech. |
| | Co-Chair: Lovera, Marco | Pol. di Milano |
| 17:00-17:20 | | MoC3.1 |
| | <i>Errors in Frequency Response Estimates Using Overlapping Blocks with Random Inputs</i> , pp. 599-604. | |
| | Douce, John Leonard | Univ. of Warwick |
| | Widanage, Widanalage Dhammika | Vrije Univ. of Brussels |
| | Godfrey, Keith Richard | Univ. of Warwick |
| 17:20-17:40 | | MoC3.2 |
| | <i>On Simple Identification Techniques for First-Order Plus Time-Delay Systems</i> , pp. 605-610. | |
| | Acioli Junior, George | Univ. Federal de Campina Grande |
| | dos Santos, João B. M. | Univ. Federal de Campina Grande |
| | Barros, Péricles R. | Univ. Federal de Campina Grande |
| 17:40-18:00 | | MoC3.3 |
| | <i>Identification of the Wavelength-Modulation Frequency Response in a Self-Mixing Interferometer</i> , pp. 611-616. | |
| | Tanelli, Mara | Pol. di Milano |
| | Lovera, Marco | Pol. di Milano |
| | Norgia, Michele | Pol. di Milano |
| | Pesatori, Alessandro | Pol. di Milano |
| 18:00-18:20 | | MoC3.4 |
| | <i>Extracting a Non-Parametric Instantaneous FRF of a Linear, Slowly Time-Varying System Using a Multisine Excitation</i> , pp. 617-622. | |
| | Lataire, John | Vrije Univ. Brussel |
| | Pintelon, Rik | Vrije Univ. Brussel |
| 18:20-18:40 | | MoC3.5 |
| | <i>Frequency Identification of Biased Harmonic Output Disturbance</i> , pp. 623-627. | |
| | Bobtsov, Alexey | Saint-Petersburg State Univ. of Information Tech. M |
| | Aranovskiy, Stanislav | Saint-Petersburg State Univ. of Information Tech. M |
| 18:40-19:00 | | MoC3.6 |
| | <i>An IV-Based Iterative Linear Regression Algorithm with Optimal Output Error Properties[†]</i> . | |
| | Van den Hof, Paul M.J. | Delft Univ. of Tech. |
| | Douma, Sippe Geert | SHELL |

| MoC4 | | Vauban Room 2 |
|---|---|---|
| Nonlinear System Identification II (Regular Session) | | |
| | Chair: Pintelon, Rik | Vrije Univ. Brussel |
| | Co-Chair: Gan, Li | Graz Univ. of Tech. |
| 17:00-17:20 | | MoC4.1 |
| | <i>Nonlinearity Detection and Impulse Response Estimation Using a Weighting Approach</i> , pp. 628-633. | |
| | Enqvist, Martin | Linköping Univ. |
| 17:20-17:40 | | MoC4.2 |
| | <i>Analysis of the Nonlinear Induced Variability in Linear System Identification</i> , pp. 634-639. | |
| | Schoukens, Johan | Vrije Univ. Brussel |
| | Barbé, Kurt | Vrije Univ. Brussel |
| | Vanbeylen, Laurent | Vrije Univ. Brussel |
| | Pintelon, Rik | Vrije Univ. Brussel |
| 17:40-18:00 | | MoC4.3 |
| | <i>Diffusive Identification of Volterra Models by Cancellation of the Nonlinear Term</i> , pp. 640-645. | |
| | Casenave, Céline | LAAS-CNRS |
| | Montseny, Gerard | LAAS-CNRS |
| 18:00-18:20 | | MoC4.4 |
| | <i>Direct Linearization of Weakly Nonlinear Volterra Systems Using Adaptive Linear and Nonlinear FIR Filters</i> , pp. 646-651. | |
| | Abd-Elrady, Emad | Graz Univ. of Tech. |
| | Gan, Li | Graz Univ. of Tech. |
| 18:20-18:40 | | MoC4.5 |
| | <i>Tensor-Based Identification of the Structure of Block-Oriented Nonlinear Systems</i> , pp. 652-657. | |
| | Kibangou, Alain | GIPSA-Lab. CNRS |
| | Favier, Gérard | Univ. of Nice - Sophia Antipolis / CNRS |
| 18:40-19:00 | | MoC4.6 |
| | <i>Nonlinear System Identification of Block-Oriented Systems Using Local Affine Models</i> , pp. 658-663. | |
| | Zimmerschied, Ralf | Robert Bosch GmbH |
| | Isermann, Rolf | Univ. of Tech. Darmstadt |

| MoC5 | Bouvet Room 1 |
|---|--|
| Identifiability (Regular Session) | |
| Chair: Norton, John Peters Co-Chair: Sun, Lianming | Australian National Univ. Univ. of Kitakyushu |
| 17:00-17:20 | MoC5.1 |
| <i>Identifiability: From Qualitative Analysis to Model Structure Approximation</i> , pp. 664-669. | |
| Van Doren, Jorn F.M. Douma, Sippe Geert Van den Hof, Paul M.J. Jansen, Jan Dirk Bosgra, Okko | Delft Univ. of Tech. SHELL Delft Univ. of Tech. Delft Univ. of Tech. Delft Univ. of Tech. |
| 17:20-17:40 | MoC5.2 |
| <i>Selection of Morris Trajectories for Initial Sensitivity Analysis</i> , pp. 670-674. | |
| Norton, John Peters | Australian National Univ. |
| 17:40-18:00 | MoC5.3 |
| <i>Connecting Informative Experiments, the Information Matrix and the Minima of a Prediction Error Identification Criterion.</i> , pp. 675-680. | |
| Gevers, Michel Bazanella, Alexandre S. Bombois, Xavier | UCL Univ. Federal Do Rio Grande Do Sul Delft Univ. of Tech. |
| 18:00-18:20 | MoC5.4 |
| <i>Identification Aspects of Ritt's Algorithm for Discrete-Time Systems</i> , pp. 681-686. | |
| Lyzell, Christian Glad, Torkel Enqvist, Martin Ljung, Lennart | Linköping Univ. Linköping Univ. Linköping Univ. Linköping Univ. |
| 18:20-18:40 | MoC5.5 |
| <i>Output Over-Sampling Approach to Direct Closed-Loop Identification and Its Performance</i> , pp. 687-692. | |
| Sun, Lianming Sano, Akira | Univ. of Kitakyushu Keio Univ. |
| 18:40-19:00 | MoC5.6 |
| <i>Symbolic Proof of Inertia-Parameter Identifiability of Legged Mechanisms from Unactuated Base-Link Dynamics</i> , pp. 693-698. | |
| Ayusawa, Ko Venture, Gentiane Nakamura, Yoshihiko | Univ. of Tokyo Tokyo Univ. of Agriculture and Tech. Univ. of Tokyo |
| MoC6 | Bouvet Room 2 |
| Process Control (Regular Session) | |
| Chair: Kinnaert, Michel Co-Chair: Yamamoto, Toru | Univ. Libre de Bruxelles Hiroshima Univ. |
| 17:00-17:20 | MoC6.1 |
| <i>Identification of Low Order Parameter Varying Models for Large Scale Systems</i> , pp. 699-704. | |
| Wattamwar, Satyajit Weiland, Siep Backx, Ton | Tech. Univ. of Eindhoven Eindhoven Univ. of Tech. Eindhoven Univ. of Tech. |
| 17:20-17:40 | MoC6.2 |
| <i>Estimation of Transport Coefficients in Re-Entrant Factory Models</i> , pp. 705-710. | |
| Unver, Ali Kemal Ringhofer, Christian | Arizona State Univ. Arizona State Univ. |
| 17:40-18:00 | MoC6.3 |
| <i>On-Line Identification of a Municipal Solid Waste Incinerator by Fully Tuned RBF Neural Networks</i> , pp. 711-716. | |
| Giantomassi, Andrea Ippoliti, Gianluca Longhi, Sauro Bertini, Ilaria Pizzuti, Stefano | Univ. Pol. delle Marche Univ. Pol. delle Marche Univ. Pol. delle Marche ENEA, Italian Energy Agency ENEA |
| 18:00-18:20 | MoC6.4 |
| <i>Model-Based Sensor Fault Detection and Isolation in Balanced Three-Phase Signals</i> , pp. 717-722. | |
| Gálvez Carrillo, Manuel Ricardo Kinnaert, Michel | Univ. Libre de Bruxelles Univ. Libre de Bruxelles |
| 18:20-18:40 | MoC6.5 |
| <i>Dry-Out Point Estimation in Once through Boilers</i> , pp. 723-728. | |
| Boje, Edward | Univ. of KwaZulu Natal |
| 18:40-19:00 | MoC6.6 |
| <i>Design and Industrial Applications of a Control Performance Assessment Based PID Controller</i> , pp. 729-734. | |
| Yamamoto, Toru Kawada, Kazuo Kugemoto, Hidekazu Kutsuwa, Yoshinori | Hiroshima Univ. Hiroshima Univ. Sumitomo Chemical Co. Ltd. Sumitomo Chemical Co. Ltd. |

| MoC7 | | Charcot Room |
|--|--|------------------------------------|
| Software Demonstration II (Invited Session) | | |
| Chair: Schumann, Reimar | | Univ. of Applied Sciences and Arts |
| Co-Chair: Garnier, Hugues | | Univ. of Nancy |
| Organizer: Schumann, Reimar | | Univ. of Applied Sciences and Arts |
| 17:00-19:00 | | MoC7.1 |
| <i>The CONTSID Toolbox for Matlab: Extensions and Latest Developments (I)</i> , pp. 735-740. | | |
| Garnier, Hugues | | Univ. of Nancy. |
| Gilson, Marion | | Univ. of Nancy. |
| Laurain, Vincent | | Univ. of Nancy. |
| 17:00-19:00 | | MoC7.2 |
| <i>A MATLAB Software Environment for System Identification (I)</i> , pp. 741-746. | | |
| Wills, Adrian George | | Univ. of Newcastle |
| Mills, Adam | | Univ. of Newcastle |
| Ninness, Brett | | Univ. of Newcastle |
| 17:00-19:00 | | MoC7.3 |
| <i>A System, Signals and Identification Toolbox in Mathematica with Symbolic Capabilities. (I)</i> , pp. 747-751. | | |
| Sjoberg, Jonas E. | | Chalmers Univ. of Tech. |
| Hjalmarsson, Håkan | | KTH |
| 17:00-19:00 | | MoC7.4 |
| <i>ITSIE: An Interactive Software Tool for System Identification Education (I)</i> , pp. 752-757. | | |
| Guzman, Jose Luis | | Univ. of Almeria |
| Rivera, Daniel E. | | Arizona State Univ. |
| Dormido, Sebastián | | UNED |
| Berenguel, Manuel | | Univ. of Almeria |
| 17:00-19:00 | | MoC7.5 |
| <i>The Captain Toolbox for Matlab (I)</i> , pp. 758-763. | | |
| Young, Peter | | Lancaster Univ. |
| 17:00-19:00 | | MoC7.6 |
| <i>Kalmtool Used for Laser Scanner Aided Navigation in Orchard</i> , pp. 764-769. | | |
| Mogensen, Lars V. | | Tech. Univ. of Denmark |
| Hansen, Sören | | Tech. Univ. of Denmark |
| Andersen, Jens Christian | | Tech. Univ. of Denmark |
| Ravn, Ole | | Tech. Univ. of Denmark |
| Andersen, Nils A. | | Tech. Univ. of Denmark |
| Blanke, Mogens | | Tech. Univ. of Denmark |
| Poulsen, Niels Kjølstad | | Tech. Univ. of Denmark |
| TuP | | Auditorium Chateaubriand |
| Plenary II (Plenary Session) | | |
| Chair: Vicino, Antonio | | Univ. di Siena |
| 08:30-09:30 | | TuP.1 |
| <i>Learning Over Complex Social Networks</i> , pp. 770-773. | | |
| Acemoglu, Daron | | MIT |
| Dahleh, Munther A. | | Massachusetts Inst. of Tech. |
| Lobel, Ilan | | Massachusetts Inst. of Tech. |
| Ozdoglar, Asuman | | MIT |
| TuA1 | | Auditorium Chateaubriand |
| Particle Filter Approaches to Estimation and System Identification (Invited Session) | | |
| Chair: Wills, Adrian George | | Univ. of Newcastle |
| Co-Chair: Schön, Thomas Bo | | Linköping Univ. |
| Organizer: Gopaluni, Ratna Bhushan | | Univ. of British Columbia |
| Organizer: Schön, Thomas Bo | | Linköping Univ. |
| Organizer: Wills, Adrian George | | Univ. of Newcastle |
| 10:00-10:20 | | TuA1.1 |
| <i>An Overview of Sequential Monte Carlo Methods for Parameter Estimation on General State Space Models (I)</i> , pp. 774-785. | | |
| Kantas, Nikolas | | Cambridge Univ. |
| Doucet, Arnaud | | Univ. of British Columbia |
| Singh, Sumeetpal S. | | Univ. of Cambridge |
| Maciejowski, Jan | | Univ. of Cambridge |
| 10:20-10:40 | | TuA1.2 |
| <i>The Use of Ensemble Sample Statistics in Constrained Maximum a Posteriori Estimation (I)</i> , pp. 786-791. | | |
| Ungarala, Sridhar | | Cleveland State Univ. |
| 10:40-11:00 | | TuA1.3 |
| <i>Practical Issues in Particle Filters for State Estimation of Complex Chemical Processes (I)</i> , pp. 792-797. | | |
| Shao, Xinguang | | Univ. of Alberta |
| Huang, Biao | | Univ. of Alberta |
| Lee, Jong Min | | Univ. of Alberta |
| 11:00-11:20 | | TuA1.4 |
| <i>Multiple Object Tracking Using Evolutionary MCMC-Based Particle Algorithms (I)</i> , pp. 798-803. | | |
| Septier, François | | Univ. of Cambridge |
| Carmi, Avishy | | Univ. of Cambridge |
| Pang, Sze Kim | | Univ. of Cambridge |
| Godsill, Simon | | Univ. of Cambridge |

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| 11:20-11:40 | TuA1.5 |
| Comparison of Expectation-Maximization Based Parameter Estimation Using Particle Filter, Unscented and Extended Kalman Filtering Techniques (I) , pp. 804-809. | |
| Chitralkha, Saneej | Univ. of Alberta |
| Prakash, Jagadeesan | Madras Inst. of Tech. |
| Raghavan, Harigopal | Univ. of Alberta |
| Gopaluni, Ratna Bhushan | Univ. of British Columbia |
| Shah, Sirish | Univ. of Alberta |
| 11:40-12:00 | TuA1.6 |
| Particle Filter Approach to Nonlinear System Identification under Missing Observations with a Real Application (I) , pp. 810-815. | |
| Gopaluni, Ratna Bhushan | Univ. of British Columbia |
| Schön, Thomas Bo | Linköping Univ. |
| Wills, Adrian George | Univ. of Newcastle |

TuA2 Amphitheatre Maupertuis

Benchmark on Nonlinear System Identification I - Nonparametric Methods (Invited Session)

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| Chair: Ljung, Lennart | Linköping Univ. |
| Co-Chair: Schoukens, Johan | Vrije Univ. Brussel |
| Organizer: Schoukens, Johan | Vrije Univ. Brussel |
| Organizer: Suykens, Johan | K.U. Leuven |
| Organizer: Ljung, Lennart | Linköping Univ. |
| 09 :55-10 :00 | TuA2.0 |
| Benchmark Presentation | |
| 10:00-10:20 | TuA2.1 |
| Identification of Wiener-Hammerstein Benchmark Data by Means of Support Vector Machines (I) , pp. 816-819. | |
| Marconato, Anna | Univ. of Trento |
| Schoukens, Johan | Vrije Univ. Brussel |
| 10:20-10:40 | TuA2.2 |
| Identi_ ; Cation of Wiener-Hammerstein Systems Using LS-SVMs (I) , pp. 820-825. | |
| Falck, Tillmann | K.U. Leuven |
| Pelckmans, Kristiaan | Uppsala Univ. |
| Suykens, J.A.K. | Katholieke Univ. Leuven |
| De Moor, Bart | K.U.Leuven |
| 10:40-11:00 | TuA2.3 |
| Fixed-Size LS-SVM Applied to the Wiener-Hammerstein Benchmark (I) , pp. 826-831. | |
| De Brabanter, Kris | K.U. Leuven |
| Dreesen, Philippe | K.U. Leuven |
| Karsmakers, Peter | K.U. Leuven |
| Pelckmans, Kristiaan | Uppsala Univ. |
| De brabanter, Jos | K.U. Leuven |
| Suykens, Johan | K.U. Leuven |
| De Moor, Bart | K.U.Leuven |
| 11:00-11:20 | TuA2.4 |
| Identification of a Benchmark Wiener-Hammerstein System by Bilinear and Hammerstein-Bilinear Models (I) , pp. 832-837. | |
| Lopes dos Santos, P. | Univ. do Porto |
| Ramos, Jose | Nova Southeastern Univ. |
| Martins de Carvalho, J.L. | Faculdade de Engenharia da Univ. do Porto |
| 11:20-11:40 | TuA2.5 |
| Gaussian Processes for Wiener-Hammerstein System Identification (I) , pp. 838-843. | |
| Pillonetto, Gianluigi | Univ. of Padova |
| Chiuso, Alessandro | Univ. of Padova |
| 11:40-12:00 | TuA2.6 |
| Benchmark Nonlinear System Identification Using Wavelet Based SDP Models (I) , pp. 844-849. | |
| Truong, Nguyen-Vu | RMIT Univ. |
| Wang, Liuping | RMIT Univ. |

TuA3 Vauban Room 1

Subspace Methods II (Regular Session)

| | |
|--|----------------------|
| Chair: Mevel, Laurent | IRISA/INRIA |
| Co-Chair: Tanelli, Mara | Pol. di Milano |
| 10:00-10:20 | TuA3.1 |
| Subspace Based Damping Monitoring , pp. 850-855. | |
| Zouari, Rafik | Teuchos (Safran) |
| Mevel, Laurent | IRISA/INRIA |
| Basseville, Michele | IRISA/CNRS |
| 10:20-10:40 | TuA3.2 |
| LPV Subspace Identification of a DC Motor with Unbalanced Disc , pp. 856-861. | |
| Kulcsar, Balazs | Delft Univ. of Tech. |
| Dong, Jianfei | Delft Univ. of Tech. |
| Wingerden, van, Jan-Willem | Delft Univ. of Tech. |
| Verhaegen, Michel | Delft Univ. of Tech. |
| 10:40-11:00 | TuA3.3 |
| LPV Model Identification in Virtualized Service Center Environments , pp. 862-867. | |
| Tanelli, Mara | Pol. di Milano |

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| Ardagna, Danilo | Pol. di Milano |
| Lovera, Marco | Pol. di Milano |
| 11:00-11:20 | TuA3.4 |
| <i>Subspace Identification of (AR)ARMAX, Box-Jenkins, and Generalized Model Structures</i> , pp. 868-873. | |
| Reynders, Edwin | K.U. Leuven |
| De Roeck, Guido | K.U. Leuven |
| 11:20-11:40 | TuA3.5 |
| <i>Automatic Forward Model Selection Based on Leave-One-Out Cross-Validation</i> , pp. 874-879. | |
| Du, Dajun | Queen's Univ. Belfast |
| Li, Kang | Queen's Univ. Belfast |
| Fei, Minrui | Shanghai Univ. |
| Irwin, George W. | Queen's Univ. of Belfast |
| 11:40-12:00 | TuA3.6 |
| <i>Subspace Method for Continuous-Time Fractional System Identification</i> , pp. 880-885. | |
| Thomassin, Magalie | Univ. Bordeaux 1 |
| Malti, Rachid | Univ. Bordeaux 1 |

TuA4 Vauban Room 2
Continuous Time System Identification II (Regular Session)

| | |
|--|--------------------------------------|
| Chair: Shah, Sirish | Univ. of Alberta |
| Co-Chair: Vasiliev, Vyacheslav | Univ. of Tomsk |
| 10:00-10:20 | TuA4.1 |
| <i>Identification from Step Response in the Presence of Deterministic Disturbance</i> , pp. 886-891. | |
| Ahmed, Salim | Univ. of Qatar |
| Huang, Biao | Univ. of Alberta |
| Shah, Sirish | Univ. of Alberta |
| 10:20-10:40 | TuA4.2 |
| <i>On Sequential Parameter Estimation of Stochastic Delay Differential Equations by Noisy Observations</i> , pp. 892-897. | |
| Kuechler, Uwe | Humboldt Univ. Berlin |
| Vasiliev, Vyacheslav | Univ. of Tomsk |
| 10:40-11:00 | TuA4.3 |
| <i>Identification of Continuous-Time Linear Systems with Time-Delay</i> , pp. 898-903. | |
| MSaad, Mohammed | GREYC CNRS UMR 6072 |
| Farza, Mondher | Univ. de Caen, ENSICAEN |
| 11:00-11:20 | TuA4.4 |
| <i>Instrumental Variable Method with Optimal Fractional Differentiation Order for Continuous-Time System Identification</i> , pp. 904-909. | |
| Victor, Stephane | Univ. de Bordeaux, IMS |
| Malti, Rachid | Univ. Bordeaux 1 |
| Oustaloup, Alain | Univ. Bordeaux 1 - ENSEIRB - ENSCBP |
| 11:20-11:40 | TuA4.5 |
| <i>State Estimation for Systems Subjected to Bounded Uncertainty Using Moving Horizon Approach</i> , pp. 910-915. | |
| Gubarev, Vyacheslav | National Acad. of Science of Ukraine |
| Shevchenko, Volodymyr | National Acad. of Science of Ukraine |
| Zhukov, Oleksii | National Acad. of Science of Ukraine |
| Gummel, Oleksii | National Acad. of Science of Ukraine |
| 11:40-12:00 | TuA4.6 |
| <i>Continuous-Time Model Identification of Fractional Order Models with Time Delays</i> , pp. 916-921. | |
| Narang, Anuj | Univ. of Alberta |
| Shah, Sirish | Univ. of Alberta |
| Chen, Tongwen | Univ. of Alberta |

TuA5 Bouvet Room 1
Input and Excitation Design II (Regular Session)

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|---|-----------------------------|
| Chair: Hjalmarsson, Håkan | KTH |
| Co-Chair: Ucinski, Dariusz | Univ. of Zielona Gora |
| 10:00-10:20 | TuA5.1 |
| <i>Consistent Estimation of Real NMP Zeros in Stable LTI Systems of Arbitrary Complexity</i> , pp. 922-927. | |
| Rojas, Cristian | ACCESS Linnaeus Center, KTH |
| Hjalmarsson, Håkan | KTH |
| Gerencser, Laszlo | MTA SZTAKI |
| Mårtensson, Jonas | KTH |
| 10:20-10:40 | TuA5.2 |
| <i>Closed-Loop Optimal Input Design: The Partial Correlation Approach</i> , pp. 928-933. | |
| Hildebrand, Roland | Univ. Grenoble 1 / CNRS |
| Solari, Gabriel | TenarisDalmine |
| 10:40-11:00 | TuA5.3 |
| <i>Optimal Input Design for Robust H2 Deconvolution Filtering</i> , pp. 934-939. | |
| Bombois, Xavier | Delft Univ. of Tech. |
| Hjalmarsson, Håkan | KTH |
| 11:00-11:20 | TuA5.4 |
| <i>D-Optimum Sensor Activity Scheduling for Distributed Parameter Systems</i> , pp. 940-945. | |
| Ucinski, Dariusz | Univ. of Zielona Gora |

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| 11:20-11:40 | | TuA5.5 |
| | <i>Optimal Experiment Design for the Black Box Identification of a Semi-Active Damper</i> , pp. 946-951. | |
| | Witters, Maarten | K.U. Leuven |
| | Swevers, Jan | K.U. Leuven |
| 11:40-12:00 | | TuA5.6 |
| | <i>Input Design Admitting Non-Fragile Robust Control by Convex Optimization</i> , pp. 952-957. | |
| | Sadeghzadeh, Arash | Tarbiat Modares Univ. |
| | Momeni, Hamidreza | Tarbiat Modares Univ. |

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| TuA6 | | Bouvet Room 2 |
| Applications I (Regular Session) | | |
| | Chair: Rivera, Daniel E. | Arizona State Univ. |
| | Co-Chair: Poulin, Eric | Laval Univ. |
| 10:00-10:20 | | TuA6.1 |
| | <i>Thermal Modeling and Identification of an Aluminum Rod Using Fractional Calculus</i> , pp. 958-963. | |
| | Malti, Rachid | Univ. Bordeaux 1 |
| | Sabatier, Jocelyn | Univ. Bordeaux 1 |
| | Akcaay, Huseyin | Anadolu Univ. |
| 10:20-10:40 | | TuA6.2 |
| | <i>A System Identification Approach to PDE Modeling of a Semiconductor Manufacturing Process</i> , pp. 964-969. | |
| | Schwartz, Jay D. | Arizona State Univ. |
| | Rivera, Daniel E. | Arizona State Univ. |
| 10:40-11:00 | | TuA6.3 |
| | <i>An Application of System Identification Techniques to Impedance Estimation in Magnetotelluric Surveying</i> , pp. 970-975. | |
| | Ugryumova, Diana | Univ. of Twente |
| | Lau, Katrina | Univ. of Newcastle |
| | Braslavsky, Julio H. | Univ. of Newcastle |
| | Meinsma, Gjerrit | Univ. of Twente |
| 11:00-11:20 | | TuA6.4 |
| | <i>Estimation of Measurement Error Variances in Data Reconciliation Using a Flow Distribution Model</i> , pp. 976-981. | |
| | Poulin, Éric | Univ. Laval |
| | Hodouin, Daniel | Univ. Laval |
| | Lachance, Luc | Algosys |
| 11:20-11:40 | | TuA6.5 |
| | <i>A Change Detection Algorithm Based on Recursive Subspace Identification and Its Application to a Cart System</i> , pp. 982-987. | |
| | Oku, Hiroshi | Osaka Inst. of Tech. |
| 11:40-12:00 | | TuA6.6 |
| | <i>Using a Redundant Channel to Identify Gain Errors in Hadamard Modulated A/D Converters[†]</i> . | |
| | Delic-Ibukic, Alma | Bucknell Univ. |
| | Hummels, Don | Univ. of Maine |

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| TuA7 | | Charcot Room |
| Biological Systems II (Regular Session) | | |
| | Chair: Keesman, Karel | Wageningen Univ. |
| | Co-Chair: Lemos, Joao M. | INESC-ID |
| 10:00-10:20 | | TuA7.1 |
| | <i>Identification of Human Mass Properties from Motion</i> , pp. 988-993. | |
| | Venture, Gentiane | Tokyo Univ. of Agriculture and Tech. |
| | Ayusawa, Ko | Univ. of Tokyo |
| | Nakamura, Yoshihiko | Univ. of Tokyo |
| 10:20-10:40 | | TuA7.2 |
| | <i>A Model of the Lungs Based on Fractal Geometrical and Structural Properties</i> , pp. 994-999. | |
| | Ionescu, Clara | Ghent Univ. |
| | Oustaloup, Alain | Univ. Bordeaux 1 - ENSEIRB - ENSCBP |
| | Levron, François | Univ. Bordeaux 1 - ENSEIRB - ENSCBP |
| | Melchior, Pierre | Univ. Bordeaux 1 - ENSEIRB - ENSCBP |
| | Sabatier, Jocelyn | Univ. Bordeaux 1 - ENSEIRB - ENSCBP |
| | De Keyser, Robin M.C. | Ghent Univ. |
| 10:40-11:00 | | TuA7.3 |
| | <i>Clustering in Supervised Multi-Model Adaptive Control Applied to Neuromuscular Blockade</i> , pp. 1000-1005. | |
| | Lemos, Joao | INESC-ID |
| | Oliveira, Pedro | INESC-ID |
| | Marques, Jorge S. | Inst. Superior Tecnico |
| | Mendonça, Teresa | Faculdade de Ciências da Univ. do Porto |
| 11:00-11:20 | | TuA7.4 |
| | <i>An Identification Function in Clinical Diagnosis Based on the Experimental Measurements with Laser Bio-Photometry</i> , pp. 1006-1009. | |
| | Ravariu, Cristian | Pol. Univ. of Bucharest |
| | Bondarciuc, Ala | Colentina Hospital |
| | Wilhelm, Kappel | Inst. ICPE-CA |
| | Bondarciuc, Vlad | Spectrum UIF |
| | Ravariu, Florina | Inst. of Microtechnology |

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| 11:20-11:40 | | TuA7.5 |
| <i>Robust Methodology for the Identification of Dynamic Bioprocess Models</i> , pp. 1010-1015. | | |
| Maillier, Johan | | Faculté Pol. de Mons |
| Vande Wouwer, Alain | | Faculté Pol. de Mons |
| 11:40-12:00 | | TuA7.6 |
| <i>System Identification in Production Ecology: From Theory to Agroforestry Practice</i> , pp. 1016-1021. | | |
| Keesman, Karel | | Wageningen Univ. |
| Graves, Anil | | Cranfield Univ. |
| van der Werf, Wopke | | Wageningen Univ. |
| Burgess, Paul | | Cranfield Univ. |
| TuSP1 | | Auditorium Chateaubriand |
| Semi-Plenary III (Semi-Plenary Session) | | |
| Chair: De Moor, Bart | | K.U. Leuven |
| 13:00-14:00 | | TuSP1.1 |
| <i>Stochastic Gene Expression: Modeling, Analysis, and Identification</i> , pp. 1022-1028. | | |
| Khammash, Mustafa H. | | Univ. of California at Sta. Barbara |
| TuSP2 | | Amphitheatre Maupertuis |
| Semi-Plenary IV (Semi-Plenary Session) | | |
| Chair: Soderstrom, Torsten | | Uppsala Univ. |
| 13:00-14:00 | | TuSP2.1 |
| <i>Support Vector Machines and Kernel-Based Learning for Dynamical Systems Modelling</i> , pp. 1029-1037. | | |
| Suykens, Johan | | K.U. Leuven |
| TuB1 | | Auditorium Chateaubriand |
| Identification for Control II (Regular Session) | | |
| Chair: Dumont, Guy | | Univ. of British Columbia |
| Co-Chair: Babuska, Vit | | Sandia National Lab. |
| 14:00-14:20 | | TuB1.1 |
| <i>Short or Long Memory Estimators?</i> , pp. 1038-1043. | | |
| Rojas, Alejandro J. | | Univ. of Newcastle |
| Goodwin, Graham C. | | Univ. of Newcastle |
| Renton, Christopher | | Hatch Industrial Automation Services, Pty. Ltd. |
| 14:20-14:40 | | TuB1.2 |
| <i>Robust-Control-Relevant Coprime Factor Identification with Application to Model Validation of a Wafer Stage</i> , pp. 1044-1049. | | |
| Oomen, Tom | | Eindhoven Univ. of Tech. |
| van Herpen, Robbert | | Eindhoven Univ. of Tech. |
| Bosgra, Okko H. | | Eindhoven Univ. of Tech. |
| 14:40-15:00 | | TuB1.3 |
| <i>Data-Driven Controller Validation</i> , pp. 1050-1055. | | |
| van Heusden, Klaske | | EPFL |
| Karimi, Alireza | | Ec. Pol. Federale de Lausanne |
| Bonvin, Dominique | | EPFL |
| 15:00-15:20 | | TuB1.4 |
| <i>Direct Optimal Controller Identification for Uncertain Systems Using Frequency Response Function Data</i> , pp. 1056-1061. | | |
| Holzel, Matthew | | Univ. of Michigan |
| Lacy, Seth | | Air Force Res. Lab. |
| Babuska, Vit | | Sandia National Lab. |
| 15:20-15:40 | | TuB1.5 |
| <i>Tuning and Identification for Model Predictive Control: An Iterative Approach</i> , pp. 1062-1067. | | |
| Yan, Jun | | Univ. of British Columbia |
| Dumont, Guy | | Univ. of British Columbia |
| Harinath, Eranda | | Univ. of British Columbia |
| 15:40-16:00 | | TuB1.6 |
| <i>Transient Stabilization and Voltage Regulation of Power Generators with Parameters Adaptation</i> , pp. 1068-1073. | | |
| Kenne, Godpromesse | | IUT FOTSO Victor, Univ. de Dschang |
| Nkwawo, Homere | | IUT de Villetaneuse |
| Goma, Raphaël | | Lab. des signaux et systèmes |
| Ahmed-Ali, Tarek | | ENSIETA |
| Lamnabhi-Lagarrigue, Françoise | | CNRS-EECI |
| Vannier, Jean-Claude | | SUPELEC |
| TuB2 | | Amphitheatre Maupertuis |
| Benchmark on Nonlinear System Identification II - Parametric Methods (Invited Session) | | |
| Chair: Suykens, Johan | | K.U. Leuven |
| Co-Chair: Schoukens, Johan | | Vrije Univ. Brussel |
| Organizer: Schoukens, Johan | | Vrije Univ. Brussel |
| Organizer: Suykens, Johan | | K.U. Leuven |
| Organizer: Ljung, Lennart | | Linköping Univ. |
| 14:00-14:20 | | TuB2.1 |
| <i>Polynomial NARX Model Identification: A Wiener-Hammerstein Benchmark (I)</i> , pp. 1074-1079. | | |
| Piroddi, Luigi | | Pol. di Milano |
| Farina, Marcello | | Pol. di Milano |
| Lovera, Marco | | Pol. di Milano |

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| 14:20-14:40 | | TuB2.2 |
| <i>Identification of a Wiener-Hammerstein System Using the Polynomial Nonlinear State Space Approach (I)</i> , pp. 1080-1085. | | |
| Paduart, Johan | | Vrije Univ. Brussel |
| Lauwers, Lieve | | Vrije Univ. Brussel |
| Pintelon, Rik | | Vrije Univ. Brussel |
| Schoukens, Johan | | Vrije Univ. Brussel |
| 14:40-15:00 | | TuB2.3 |
| <i>Two Nonlinear Optimization Methods for Black Box Identification Compared (I)</i> , pp. 1086-1091. | | |
| Van Mulders, Anne | | Vrije Univ. Brussel |
| Schoukens, Johan | | Vrije Univ. Brussel |
| Volckaert, Marnix | | K.U. Leuven |
| Diehl, Moritz | | K.U. Leuven |
| 15:00-15:20 | | TuB2.4 |
| <i>A State-Space Approach to Identification of Wiener-Hammerstein Benchmark Model (I)</i> , pp. 1092-1097. | | |
| Ase, Hajime | | JFE Systems |
| Katayama, Tohru | | Doshisha Univ. |
| Tanaka, Hideyuki | | Kyoto Univ. |
| 15:20-15:40 | | TuB2.5 |
| <i>Modelling of Wiener-Hammerstein Systems Via the Best Linear Approximation (I)</i> , pp. 1098-1103. | | |
| Lauwers, Lieve | | Vrije Univ. Brussel |
| Pintelon, Rik | | Vrije Univ. Brussel |
| Schoukens, Johan | | Vrije Univ. Brussel |
| 15:40-16:00 | | TuB2.6 |
| <i>Estimation of Generalised Hammerstein-Wiener Systems (I)</i> , pp. 1104-1109. | | |
| Wills, Adrian George | | Univ. of Newcastle |
| Ninness, Brett | | Univ. of Newcastle |

TuB3

Vauban Room 1

Maximum Likelihood Methods (Regular Session)

| | | |
|--|--|------------------------------------|
| Chair: Wahlberg, Bo | | KTH |
| Co-Chair: Markovsky, Ivan | | Univ. of Southampton |
| 14:00-14:20 | | TuB3.1 |
| <i>Conditions for Attaining Global Minimum in Maximum Likelihood System Identification</i> , pp. 1110-1115. | | |
| Zou, Yiqun | | Univ. of Manchester |
| Heath, William Paul | | Univ. of Manchester |
| 14:20-14:40 | | TuB3.2 |
| <i>On Estimation of Cascade Systems with Common Dynamics</i> , pp. 1116-1120. | | |
| Wahlberg, Bo | | KTH |
| Stoica, Petre | | Uppsala Univ. |
| Babu, Prabhu | | Uppsala Univ. |
| 14:40-15:00 | | TuB3.3 |
| <i>Applications of Structured Low-Rank Approximation</i> , pp. 1121-1126. | | |
| Markovsky, Ivan | | Univ. of Southampton |
| 15:00-15:20 | | TuB3.4 |
| <i>Identification of Real Sinusoids in Noise, the Global Matched Filter Approach.</i> , pp. 1127-1132. | | |
| Fuchs, Jean Jacques | | Univ. de Rennes |
| 15:20-15:40 | | TuB3.5 |
| <i>A Numerical Study of Time and Frequency Domain Maximum Likelihood Estimation</i> , pp. 1133-1138. | | |
| Delgado, Ramón A. | | Univ. Técnica Federico Santa María |
| Yuz, Juan I. | | Univ. Técnica Federico Santa María |
| Aguero, Juan C | | Univ. of Newcastle |
| Goodwin, Graham C. | | Univ. of Newcastle |
| 15:40-16:00 | | TuB3.6 |
| <i>Asymptotic Properties of Transfer Function Estimates Using Non-Parametric Noise Models under Relaxed Assumptions</i> , pp. 1139-1144. | | |
| Barbé, Kurt | | Vrije Univ. Brussel |
| Pintelon, Rik | | Vrije Univ. Brussel |
| Schoukens, Johan | | Vrije Univ. Brussel |

TuB4

Vauban Room 2

Continuous-Time Model Estimation (Invited Session)

| | | |
|---|--|-----------------|
| Chair: Garnier, Hugues | | Univ. of Nancy |
| Co-Chair: Soderstrom, Torsten | | Uppsala Univ. |
| Organizer: Garnier, Hugues | | Univ. of Nancy |
| 14:00-14:20 | | TuB4.1 |
| <i>Sampling Approximations for Continuous-Time Identification (I)</i> , pp. 1145-1150. | | |
| Soderstrom, Torsten | | Uppsala Univ. |
| 14:20-14:40 | | TuB4.2 |
| <i>A Simple Refined IV Method of Closed-Loop System Identification (I)</i> , pp. 1151-1156. | | |
| Young, Peter | | Lancaster Univ. |
| Garnier, Hugues | | Univ. of Nancy. |
| Gilson, Marion | | Univ. of Nancy. |

14:40-15:00 TuB4.3
Sampled Data Errors in Variables Systems (I), pp. 1157-1162.
 Agüero, Juan C. Univ. of Newcastle
 Goodwin, Graham C. Univ. of Newcastle
 Soderstrom, Torsten Uppsala Univ.
 Yuz, Juan I. Univ. Técnica Federico Santa María

15:00-15:20 TuB4.4

Continuous-Time Model Identification and State Estimation Using Non-Uniformly Sampled Data (I), pp. 1163-1168.
 Johansson, Rolf Lund Univ.

15:20-15:40 TuB4.5
Continuous-Time System Identification Using Indirect Inference (I), pp. 1169-1174.
 Welsh, James Univ. of Newcastle
 Agüero, Juan C. Univ. of Newcastle
 Alamir, Mazen Gipsa-Lab. (CNRS-Univ. of Grenoble)

15:40-16:00 TuB4.6
Experiments with Identification of Continuous Time Models (I), pp. 1175-1180.
 Ljung, Lennart Linköping Univ.

TuB5 Bouvet Room 1
Model Validation (Regular Session)

Chair: Bitmead, Robert Univ. of California San Diego
 Co-Chair: Garulli, Andrea Univ. di Siena

14:00-14:20 TuB5.1
On Resampling and Uncertainty Estimation in Linear System Identification, pp. 1181-1186.
 Garatti, Simone Pol. di Milano
 Bitmead, Robert Univ. of California San Diego

14:20-14:40 TuB5.2
L-Inf Layers and the Probability of False Prediction, pp. 1187-1192.
 Garatti, Simone Pol. di Milano
 Campi, Marco Univ. of Brescia

14:40-15:00 TuB5.3
Non-Linear Portmanteau Tests, pp. 1193-1198.
 Lindström, Erik Lund Univ.
 Ströjby, Jonas Lund Univ.
 Adalbjörnsson, Stefan Ingj Lund Univ.

15:00-15:20 TuB5.4
Well-Posed Model Uncertainty Estimation by Design of Validation Experiments, pp. 1199-1204.
 Oomen, Tom Eindhoven Univ. of Tech.
 Bosgra, Okko H. Eindhoven Univ. of Tech.

15:20-15:40 TuB5.5
Validation of Wave Propagation Models Used in Identification of Viscoelastic Materials, pp. 1205-1210.
 Rensfelt, Agnes UppsalaUniversity
 Soderstrom, Torsten UppsalaUniversity

15:40-16:00 TuB5.6
Uncertainty Model Unfalsification Based Robust-Control-Oriented System Identification Method[†].
 Zhan, Charles Honeywell Inc.
 Tsakalis, Kostas Arizona State Univ.

TuB6 Bouvet Room 2
Mechanical and Aerospace II (Regular Session)

Chair: Tanelli, Mara Pol. di Milano
 Co-Chair: Góes, Luiz Carlos Sandoval Inst. Tecnológico de Aeronáutica

14:00-14:20 TuB6.1
Identification of the Transonic Aerodynamic Model for a Re-Entry Vehicle, pp. 1211-1216.
 Vitale, Antonio Italian Aerospace Res. Centre (CIRA)
 Corrado, Federico Italian Aerospace Res. Centre (CIRA)
 Bernard, Maurizio Univ. "La Sapienza"
 De Matteis, Guido Univ. "La Sapienza"

14:20-14:40 TuB6.2
Identification of Aircraft Longitudinal Stability and Control Derivatives Combining Global Search Natural Algorithms and a Gradient Based Algorithm, pp. 1217-1222.
 Maciel, Benedito Tech. Inst. of Aeronautics
 Góes, Luiz Carlos Sandoval Tech. Inst. of Aeronautics
 Viana, Felipe Chegury Federal Univ. of Uberlandia
 Steffen, Valder Federal Univ. of Uberlandia

14:40-15:00 TuB6.3
Theoretical and Practical Approach to Full-Scale Aircraft Modelling, pp. 1223-1228.
 Tomazic, Tine Pipistrel d.o.o. Ajdovscina
 Matko, Drago Univ. of Ljubljana
 Karba, Rihard Univ. of Ljubljana

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| 15:00-15:20 | | TuB6.4 |
| <i>Experimental Identification of Rear Wheel Slip Dynamics of a Motorbike</i> , pp. 1229-1234. | | |
| Corno, Matteo | | Pol. di Milano |
| Savaresi, Sergio | | Pol. di Milano |
| 15:20-15:40 | | TuB6.5 |
| <i>Tire/Road Contact Condition Identification Using Algebraic Numerical Differentiation</i> , pp. 1235-1240. | | |
| Yu, Lei | L'Ec. Nationale Supérieure de l'Electronique et de ses Applica | |
| Barbot, Jean Pierre | | ENSEA |
| Floquet, Thierry | | Ec. Centrale de Lille |
| 15:40-16:00 | | TuB6.6 |
| <i>FS-TARMA Models for Non-Stationary Vibration Analysis: An Overview and Comparison</i> , pp. 1241-1246. | | |
| Spiridonakos, Minas | | Univ. of Patras |
| Fassois, Spilios D. | | Univ. of Patras |

TuB7 Charcot Room

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|---|---|-------------------------------|
| System Identification and Modeling of Biological Systems (Invited Session) | | |
| Chair: Bastogne, Thierry | | Univ. Henri Poincaré, Nancy 1 |
| Co-Chair: Laroche, Béatrice | | CNRS/Univ. Paris Sud/Supélec |
| Organizer: Bastogne, Thierry | | Univ. Henri Poincaré, Nancy 1 |
| Organizer: Laroche, Béatrice | | CNRS/Univ. Paris Sud/Supélec |
| 14:00-14:20 | | TuB7.1 |
| <i>Computational Procedures for Optimal Model Identification in Systems Biology (I)</i> , pp. 1247-1252. | | |
| Balsa-Canto, Eva | | CSIC |
| Banga, Julio R. | IIM-CSIC (Spanish Council for Scientific Res. | |
| 14:20-14:40 | | TuB7.2 |
| <i>Describing the Heterogeneous Heat Response of E. Coli with a Subpopulation Type Model (I)</i> , pp. 1253-1258. | | |
| Van Derlinden, Eva | | K.U. Leuven |
| Van Impe, Jan F.M. | | K.U. Leuven |
| 14:40-15:00 | | TuB7.3 |
| <i>A Dissipative Approach to the Identification of Biochemical Reaction Networks (I)</i> , pp. 1259-1264. | | |
| Fey, Dirk | | Univ. of Liege |
| Bullinger, Eric | | Univ. of Liege |
| 15:00-15:20 | | TuB7.4 |
| <i>Estimation of Biochemical Network Parameter Distributions in Cell Populations (I)</i> , pp. 1265-1270. | | |
| Waldherr, Steffen | | Univ. of Stuttgart |
| Hasenauer, Jan | | Univ. of Stuttgart |
| Allgower, Frank | | Univ. of Stuttgart |
| 15:20-15:40 | | TuB7.5 |
| <i>IDEAS: A Parameter Identification Toolbox with Symbolic Analysis of Uncertainty and Its Application to Biological Modelling (I)</i> , pp. 1271-1276. | | |
| Muñoz-Tamayo, Rafael | | LSS & INRA |
| Laroche, Béatrice | | LSS |
| Leclerc, Marion | | INRA |
| Walter, Eric | | LSS & CNRS |
| 15:40-16:00 | | TuB7.6 |
| <i>System Identification of Tumor Growth Described by a Mixed Effects Model (I)</i> , pp. 1277-1282. | | |
| Bastogne, Thierry | | Univ. Henri Poincaré, Nancy 1 |
| Samson, Adeline | | CNRS, Univ. Paris Descartes |
| Mézières-Wantz, Sophie | | Nancy-Univ. CNRS |
| Vallois, Pierre | | Nancy-Univ. CNRS |
| Pinel, Sophie | | Nancy-Univ. CNRS |
| Barberi-Heyob, Muriel | | CAV (Centre Alexis Vautrin) |

WeP Auditorium Chateaubriand

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| Plenary III (Plenary Session) | | |
| Chair: Ljung, Lennart | | Linköping Univ. |
| 08:30-09:30 | | WeP.1 |
| <i>Identification of Structured Nonlinear Systems</i> , pp. 1283-1285. | | |
| Poola, Kameshwar | | Univ. of California at Berkeley |

WeA1 Auditorium Chateaubriand

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| Grey Box Modelling (Regular Session) | | |
| Chair: Pronzato, Luc | | Univ. de Nice Sophia Antipolis - CNRS |
| Co-Chair: Garatti, Simone | | Pol. di Milano |
| 10:00-10:20 | | WeA1.1 |
| <i>Towards Integrated Modelling and Parameter Estimation: An LFT-Modelica Approach</i> , pp. 1286-1291. | | |
| Donida, Filippo | | Pol. di Milano |
| Romani, Carlo | | Pol. di Milano |
| Casella, Francesco | | Pol. di Milano |
| Lovera, Marco | | Pol. di Milano |
| 10:20-10:40 | | WeA1.2 |
| <i>Gray-Box Identification for High-Dimensional Manifold Constrained Regression</i> , pp. 1292-1297. | | |
| Ohlsson, Henrik | | Linköping Univ. |
| Ljung, Lennart | | Linköping Univ. |

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| 10:40-11:00 | | WeA1.3 |
| | <i>A Sequential Design Method for the Inversion of an Unknown System</i> , pp. 1298-1303. | |
| | Bettinger, Régis | Univ. of Nice Sophia Antipolis |
| | Pronzato, Luc | Univ. of Nice Sophia Antipolis, CNRS |
| | Duchêne, Pascal | IFP |
| 11:00-11:20 | | WeA1.4 |
| | <i>Parameter Estimation in the Pacejka's Tyre Model through the TS Method</i> , pp. 1304-1309. | |
| | Garatti, Simone | Pol. di Milano |
| | Bittanti, Sergio | Pol. di Milano |
| 11:20-11:40 | | WeA1.5 |
| | <i>Estimation of a Control-Oriented Vehicle Model Based on Grey-Box Method and an Adaptive Observer</i> , pp. 1310-1315. | |
| | Gaspar, Peter | Computer & Automation Res. Inst. |
| | Szabo, Zoltan | Hungarian Acad. of Sciences |
| | Bokor, Jozsef | Hungarian Acad. of Sciences |
| 11:40-12:00 | | WeA1.6 |
| | <i>Fractional Identification Algorithms Applied to Thermal Parameter Estimation</i> , pp. 1316-1321. | |
| | Gabano, Jean-Denis | Univ. de Poitiers |
| | Poinot, Thierry | Ec. Supérieure d'Ingénieurs de Poitiers |

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| WeA2 | | Amphitheatre Maupertuis |
| Basis Functions (Regular Session) | | |
| | Chair: de Visser, Coen. C. | Delft Univ. of Tech. |
| | Co-Chair: Soumelidis, Alexandros | Computer and Automation Res. Inst. |
| 10:00-10:20 | | WeA2.1 |
| | <i>A Data-Driven Orthogonal Basis Function Approach for Non-Parametric Nonlinear System Identification</i> , pp. 1322-1327. | |
| | Bai, Er-Wei | Univ. of Iowa |
| 10:20-10:40 | | WeA2.2 |
| | <i>An LPV Identification Framework Based on Orthonormal Basis Functions</i> , pp. 1328-1333. | |
| | Tóth, Roland | Delft Univ. of Tech. |
| | Heuberger, Peter S.C. | Delft Univ. of Tech. |
| | Van den Hof, Paul M.J. | Delft Univ. of Tech. |
| 10:40-11:00 | | WeA2.3 |
| | <i>Applying Hyperbolic Wavelet Constructions in the Identification of Signals and Systems</i> , pp. 1334-1339. | |
| | Soumelidis, Alexandros | Computer and Automation Res. Inst. |
| | Bokor, Jozsef | Hungarian Acad. of Sciences |
| | Schipp, Ferenc | Eotvos Lorand Univ. of Budapest |
| 11:00-11:20 | | WeA2.4 |
| | <i>Fuzzy Simplex Splines</i> , pp. 1340-1345. | |
| | de Weerd, Elwin | Delft Univ. of Tech. Aerospace Engineering |
| | de Visser, Coen. C. | Delft Univ. of Tech. Aerospace Engineering |
| | Chu, Quping | Delft Univ. of Tech. Aerospace Engineering |
| | Mulder, J.A. (Bob) | Delft Univ. of Tech. Aerospace Engineering |
| 11:20-11:40 | | WeA2.5 |
| | <i>Wavelets or Chebyshev Polynomials Continuous-Time Identification of Mechanical Systems</i> , pp. 1346-1351. | |
| | Rouby, Corinne | Univ. Paris-Est - Ec. des Ponts ParisTech |
| | Pecol, Philippe | Univ. Paris-Est - Ec. des Ponts ParisTech |
| | Remond, Didier | Inst. Nat. des Sciences Appliquées |
| | Argoul, Pierre | Univ. Paris-Est - Ec. des Ponts ParisTech |
| 11:40-12:00 | | WeA2.6 |
| | <i>State Space Modeling of Fractional Systems Using Block Pulse Functions</i> , pp. 1352-1357. | |
| | Bouafoura, Mohamed Karim | Ec. Pol. de Tunisie |
| | Lanusse, Patrick | Univ. de Bordeaux |
| | Benhadj Braiek, Naceur | Ec. Pol. de Tunisie |

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| WeA3 | | Vauban Room 1 |
| Unconventional Filtering Methods (Regular Session) | | |
| | Chair: Besancon, Gildas | ENSE3, Grenoble INP |
| | Co-Chair: Simandl, Miroslav | Univ. of West Bohemia |
| 10:00-10:20 | | WeA3.1 |
| | <i>A Survey of Sample Size Adaptation Techniques for Particle Filters</i> , pp. 1358-1363. | |
| | Straka, Ondrej | Univ. of West Bohemia |
| | Simandl, Miroslav | Univ. of West Bohemia |
| 10:20-10:40 | | WeA3.2 |
| | <i>Efficient Particle-Based Likelihood Estimation in Partially Observed Diffusion Processes</i> , pp. 1364-1369. | |
| | Ströjby, Jonas | Lund Univ. |
| | Olsson, Jimmy | Lund Univ. |
| 10:40-11:00 | | WeA3.3 |
| | <i>State and Parameter Estimation Via Discrete-Time Exponential Forgetting Factor Observer</i> , pp. 1370-1374. | |
| | Ticlea, Alexandru | Pol. Univ. of Bucharest |
| | Besancon, Gildas | ENSE3, Grenoble INP |
| 11:00-11:20 | | WeA3.4 |
| | <i>Kalman-Type Filtering for Stochastic Systems with State-Dependent Noise and Markovian Jumps</i> , pp. 1375-1380. | |
| | Stoica, Adrian-Mihail | Univ. Pol. of Bucharest |
| | Dragan, Vasile | Romanian Acad. |
| | Yaesh, Isaac | IMI |

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| 11:20-11:40 | | WeA3.5 |
| | <i>Kalman Observer Approach towards Force Reconstruction from Experimental AFM Measurements</i> , pp. 1381-1386. | |
| | Besancon, Gildas | ENSE3, Grenoble INP |
| | Voda-Besancon, Alina | National Pol. Inst. of Grenoble |
| | Jourdan, Guillaume | cnrs |
| 11:40-12:00 | | WeA3.6 |
| | <i>Vision Based Aircraft Tracking under LPC Coordinate System</i> , pp. 1387-1392. | |
| | Pham, Nam Trung | IRISA/INRIA |
| | Le Cadre, J. P. | IRISA/CNRS |
| WeA4 | | Vauban Room 2 |
| Nonlinear System Identification III (Regular Session) | | |
| | Chair: Piroddi, Luigi | Pol. di Milano |
| | Co-Chair: Oaki, Junji | Toshiba Corp. |
| 10:00-10:20 | | WeA4.1 |
| | <i>Simulation Error Minimization-Based Identification of Polynomial Input-Output Recursive Models</i> , pp. 1393-1398. | |
| | Farina, Marcello | Pol. di Milano |
| | Piroddi, Luigi | Pol. di Milano |
| 10:20-10:40 | | WeA4.2 |
| | <i>Performance Analysis of a Digital Compass for the Heading Estimation in Nautical Application</i> , pp. 1399-1404. | |
| | Boniolo, Ivo | Pol. di Milano |
| | Savaresi, Sergio | Pol. di Milano |
| | Prandini, Maria | Pol. di Milano |
| | Borghi, Giuseppe | BASE srl |
| | Garavelli, Bruno | BASE srl |
| | Bittanti, Sergio | Pol. di Milano |
| 10:40-11:00 | | WeA4.3 |
| | <i>Identification of Nonlinear Hysteretic Engine Boost Pressure Characteristics Using Preisach Representations</i> , pp. 1405-1410. | |
| | Boja, Dankmar | MBtech Powertrain GmbH |
| | Kirschbaum, Frank | Daimler AG |
| | Saueremann, Ralf | Daimler AG |
| | Nelles, Oliver | Univ. of Siegen |
| 11:00-11:20 | | WeA4.4 |
| | <i>Improving Generalization in Neural Soft Sensor Design</i> , pp. 1411-1416. | |
| | Napoli, Giuseppe | Univ. of Messina |
| | Xibilia, M. Gabriella | Univ. of Messina |
| | Graziani, Salvatore | Univ. of Catania |
| | Caponetto, Riccardo | Univ. of Catania |
| 11:20-11:40 | | WeA4.5 |
| | <i>Decoupling Identification for Serial Two-Link Robot Arm with Elastic Joints</i> , pp. 1417-1422. | |
| | Oaki, Junji | Toshiba Corp. |
| | Adachi, Shuichi | Keio Univ. |
| 11:40-12:00 | | WeA4.6 |
| | <i>Application of Zakai Equation in Parameter Identification of Electrode Kinetics</i> , pp. 1423-1428. | |
| | Mendelson, Alexander | Helsinki Univ. of Tech. |
| | Tenno, Robert | Helsinki Univ. of Tech. |
| WeA5 | | Bouvet Room 1 |
| Time Series (Regular Session) | | |
| | Chair: Fassois, Spilios D. | Univ. of Patras |
| | Co-Chair: Fliess, Michel | LIX-CNRS |
| 10:00-10:20 | | WeA5.1 |
| | <i>Parameter Estimation of Structural Commodity Price Models</i> , pp. 1429-1434. | |
| | Perez, Tristan | Univ. of Newcastle |
| | Goodwin, Graham C. | Univ. of Newcastle |
| | Godoy, Boris I | Univ. of Newcastle |
| 10:20-10:40 | | WeA5.2 |
| | <i>Towards New Technical Indicators for Trading Systems and Risk Management</i> , pp. 1435-1440. | |
| | Fliess, Michel | LIX-CNRS |
| | Join, Cédric | UHP-Nancy & ALIEN INRIA-Futurs |
| 10:40-11:00 | | WeA5.3 |
| | <i>An Application of the Rinar(1) Process</i> , pp. 1441-1444. | |
| | Kachour, Maher | Univ. de Rennes 1 |
| | Yao, Jiang-Feng | Univ. de Rennes 1 |
| 11:00-11:20 | | WeA5.4 |
| | <i>A Stability Approach to the Analysis of Rotation Time Series</i> , pp. 1445-1450. | |
| | Said, Salem | Gipsa-Lab. CNRS |
| | Le Bihan, Nicolas | Gipsa-Lab. CNRS |
| | Sangwine, Stephen J. | Univ. of Essex |
| 11:20-11:40 | | WeA5.5 |
| | <i>Asymptotic Analysis of Non-Stationary Functional Series TARMA Estimators</i> , pp. 1451-1456. | |
| | Poulimenos, Aggelos | Univ. of Patras |
| | Fassois, Spilios D. | Univ. of Patras |

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| 11:40-12:00 | | WeA5.6 |
| | <i>Parameter Estimation of Electricity Spot Models from Futures Prices</i> , pp. 1457-1462. | |
| | Aihara, Shin Ichi Bagchi, Arunabha Imreizeeq, Emad | Tokyo Univ. of Science, Suwa Univ. of Twente Univ. of Twente |
| WeA6 | | Bouvet Room 2 |
| Applications II (Regular Session) | | |
| | Chair: Paoletti, Simone Co-Chair: Celeste, Francis | Univ. di Siena Univ. de Rennes 1 |
| 10:00-10:20 | | WeA6.1 |
| | <i>On Implicit Approximation of the Bellman Equation</i> , pp. 1463-1468. | |
| | Pišťek, Miroslav | UTIA ASCR |
| 10:20-10:40 | | WeA6.2 |
| | <i>Geometric Bounding Techniques for Underwater Navigation</i> , pp. 1469-1474. | |
| | Morice, Colin Veres, Sandor M | Univ. of Southampton Univ. of Southampton |
| 10:40-11:00 | | WeA6.3 |
| | <i>Optimized Trajectories for Mobile Robot with Map Uncertainty</i> , pp. 1475-1480. | |
| | Celeste, Francis Dambreville, Frederic Le Cadre, J. P. | Univ. de Rennes 1 GIP IRISA/CNRS |
| 11:00-11:20 | | WeA6.4 |
| | <i>Pose Estimation of an Object in 6 Degree-Of-Freedom Motion Using Monocular Image Sequences</i> , pp. 1481-1486. | |
| | Song, Eun-Han Kwon, Jeong-Hoon Ha, In-Joong | Seoul National Univ. Seoul National Univ. Seoul National Univ. |
| 11:20-11:40 | | WeA6.5 |
| | <i>Model Parameter Identification and Nonlinear Control of a Twin Rotor MIMO System - TRMS</i> , pp. 1487-1492. | |
| | Belkheiri, Mohammed Rabhi, Abdelhamid Boudjema, Farès El Hajjaji, Ahmed Bosche, Jerome | Univ. of Amar Telidji M.I.S (Modelisation, Information et Systèmes) Ec. Nationale Pol., Alger Univ. de Picardie-Jules Verne Univ. of Amiens |
| 11:40-12:00 | | WeA6.6 |
| | <i>Sparse Quantum Process Matrix Tomography[†]</i> . | |
| | Kosut, Robert | SC Solutions |
| WeA7 | | Charcot Room |
| Machine Learning and Data Mining (Regular Session) | | |
| | Chair: Willsky, Alan S. Co-Chair: Hartmann, Benjamin | MIT Univ. Siegen |
| 10:00-10:20 | | WeA7.1 |
| | <i>Sparse and Low-Rank Matrix Decompositions</i> , pp. 1493-1498. | |
| | Chandrasekaran, Venkat Sanghavi, Sujay Parrilo, Pablo A. Willsky, Alan S. | Massachusetts Inst. of Tech. Purdue Univ. Massachusetts Inst. of Tech. MIT |
| 10:20-10:40 | | WeA7.2 |
| | <i>A New Rule Selection Procedure for Fuzzy-Neural Modelling</i> , pp. 1499-1504. | |
| | Pizzileo, Barbara Li, Kang Irwin, George W. | Queen's Univ. of Belfast Queen's Univ. of Belfast Queen's Univ. of Belfast |
| 10:40-11:00 | | WeA7.3 |
| | <i>Functional Adaptive Control for Nonlinear Stochastic Systems in Presence of Outliers</i> , pp. 1505-1510. | |
| | Kral, Ladislav Hering, Pavel Simandl, Miroslav | Univ. of West Bohemia Univ. of West Bohemia Univ. of West Bohemia |
| 11:00-11:20 | | WeA7.4 |
| | <i>Modeling, Identification and Control Based on Recurrent Neural Networks of a Class of Nonlinear Systems</i> , pp. 1511-1516. | |
| | Gonzalez-Olvera, Marcos A. Tang, Yu | National Univ. of Mexico National Univ. of Mexico |
| 11:20-11:40 | | WeA7.5 |
| | <i>Global Supervised and Local Unsupervised Learning in Local Model Networks</i> , pp. 1517-1522. | |
| | Hartmann, Benjamin Nelles, Oliver Skrjanc, Igor Sodja, Anton | Univ. of Siegen Univ. of Siegen Univ. of Ljubljana Univ. of Ljubljana |
| 11:40-12:00 | | WeA7.6 |
| | <i>Machine Learning for the Prediction of Organ Damage from Cancer Radiotherapy</i> , pp. 1523-1528. | |
| | Zhang, Hao Meyer, Robert D'Souza, Warren Shi, Leyuan | Univ. of Maryland Univ. of Wisconsin-Madison Univ. of Maryland Univ. of Wisconsin-Madison |

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| WeSP1 | Auditorium Chateaubriand |
| Semi-Plenary V (Semi-Plenary Session) | |
| Chair: Wahlberg, Bo | Royal Inst. of Tech. (KTH) |
| 13:30-14:30 | WeSP1.1 |
| <i>Geometric Concepts and Models in Power Spectral Analysis</i> , pp. 1529-1530. | |
| Georgiou, Tryphon T. | Univ. of Minnesota |
| WeSP2 | Amphitheatre Maupertuis |
| Semi-Plenary VI (Semi-Plenary Session) | |
| Chair: Gevers, Michel | UCL |
| 13:30-14:30 | WeSP2.1 |
| <i>Model-Free Control and Intelligent PID Controllers: Towards a Possible Trivialization of Nonlinear Control ?</i> , pp. 1531-1550. | |
| Fliess, Michel | LIX-CNRS |
| Join, Cédric | UHP-Nancy & ALIEN INRIA-Futurs |
| WeB1 | Auditorium Chateaubriand |
| Errors in Variables Identification (Regular Session) | |
| Chair: Guidorzi, Roberto | Univ. of Bologna |
| Co-Chair: Schoukens, Johan | Vrije Univ. Brussel |
| 14:30-14:50 | WeB1.1 |
| <i>Identifying Errors-In-Variables Systems by Using a Covariance Matching Approach</i> , pp. 1551-1556. | |
| Soderstrom, Torsten | Uppsala Univ. |
| Mossberg, Magnus | Karlstad Univ. |
| Hong, Mei | Uppsala Univ. |
| 14:50-15:10 | WeB1.2 |
| <i>Frisch Scheme Based Identification of Dynamic Errors-In-Variables Bilinear Systems</i> , pp. 1557-1562. | |
| Larkowski, Tomasz | Coventry Univ. |
| Linden, Jens G. | Coventry Univ. |
| Burnham, Keith J. | Coventry Univ. |
| 15:10-15:30 | WeB1.3 |
| <i>Frisch Scheme-Based Identification of Multivariable Errors-In-Variables Models</i> , pp. 1563-1567. | |
| Diversi, Roberto | Univ. of Bologna |
| Guidorzi, Roberto | Univ. of Bologna |
| 15:30-15:50 | WeB1.4 |
| <i>Bootstrapped Total Least Squares Estimator Using (circular) Overlap for Errors-In-Variables Identification</i> , pp. 1568-1573. | |
| Vandersteen, Gerd | Vrije Univ. Brussel |
| Barbé, Kurt | Vrije Univ. Brussel |
| Pintelon, Rik | Vrije Univ. Brussel |
| Schoukens, Johan | Vrije Univ. Brussel |
| 15:50-16:10 | WeB1.5 |
| <i>Identification of ARMAX Models with Additive Output Noise</i> , pp. 1574-1579. | |
| Diversi, Roberto | Univ. of Bologna |
| Guidorzi, Roberto | Univ. of Bologna |
| Soverini, Umberto | Univ. of Bologna |
| 16:10-16:30 | WeB1.6 |
| <i>Identification of Dynamic Nonlinear Polynomial Models in the Errors-In-Variables Framework</i> , pp. 1580-1585. | |
| Larkowski, Tomasz | Coventry Univ. |
| Linden, Jens G. | Coventry Univ. |
| Burnham, Keith J. | Coventry Univ. |
| WeB2 | Amphitheatre Maupertuis |
| Nonparametric Methods (Regular Session) | |
| Chair: Juditsky, Anatoly | Univ. Grenoble I |
| Co-Chair: Zheng, Wei Xing | Univ. of Western Sydney |
| 14:30-14:50 | WeB2.1 |
| <i>Minimax Confidence Intervals for Pointwise Nonparametric Regression Estimation</i> , pp. 1586-1590. | |
| Juditsky, Anatoly | Univ. Grenoble I |
| Ljung, Lennart | Linköping Univ. |
| Nazin, Alexander V. | Inst. of Control Sciences RAS |
| Nemirovski, Arkadi | Georgia Inst. of Tech. |
| 14:50-15:10 | WeB2.2 |
| <i>Nonparametric Bayesian Identification of Jump Systems with Sparse Dependencies</i> , pp. 1591-1596. | |
| Fox, Emily | Massachusetts Inst. of Tech. |
| Sudderth, Erik | Univ. of California, Berkeley |
| Jordan, Michael | Univ. of California, Berkeley |
| Willisky, Alan S. | MIT |
| 15:10-15:30 | WeB2.3 |
| <i>Data-Driven Methods for L_2-Gain Estimation</i> , pp. 1597-1602. | |
| Barenthin Syberg, Märta | KTH |
| Wahlberg, Bo | Royal Inst. of Tech. (KTH) |
| Hjalmarsson, Håkan | KTH |
| Barkhagen, Mathias | KTH |
| | WeB2.4 |

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| 15:30-15:50 | <i>Bayesian Optimization for Parameter Identification on a Small Simulation Budget</i> , pp. 1603-1608. | SUPELEC SUPELEC CNRS |
| | Villemonteix, Julien | |
| | Vazquez, Emmanuel | |
| | Walter, Eric | |
| 15:50-16:10 | <i>Nonparametric Algorithms for Identification of Nonlinear Autoregressive Systems with Exogenous Inputs</i> , pp. 1609-1614. | WeB2.5 |
| | Zhao, Wenxiao | Chinese Academy of Sciences |
| | Zheng, Wei Xing | Univ. of Western Sydney |
| 16:10-16:30 | <i>Merging Wilson and Kautz Bases for in Situ Identification of Transfer Functions in Automotive Applications</i> [†] . | WeB2.6 |
| | Antoni, Jérôme | Univ. of Tech. of Compiegne |

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| WeB3 | Vauban Room 1 |
| Multivariable System Identification (Regular Session) | |

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| | Chair: Peeters, Ralf | Univ. Maastricht |
| | Co-Chair: Rolain, Yves | Vrije Univ. Brussel |
| 14:30-14:50 | <i>A Geometric Approach to Multivariable Errors-In-Variables Identification</i> , pp. 1615-1619. | WeB3.1 |
| | Guidorzi, Roberto | Univ. of Bologna |
| | Diversi, Roberto | Univ. of Bologna |
| 14:50-15:10 | <i>Subdiagonal Pivot Structures and Associated Canonical Forms under State Isometries</i> , pp. 1620-1625. | WeB3.2 |
| | Hanzon, Bernard | Univ. Coll. Cork |
| | Olivi, Martine | INRIA |
| | Peeters, Ralf | Univ. Maastricht |
| 15:10-15:30 | <i>Stochastic Identification under Multiple Operating Conditions: Functionally Pooled VARMA Methods</i> , pp. 1626-1631. | WeB3.3 |
| | Hios, John | Univ. of Patras |
| | Fassois, Spilios D. | Univ. of Patras |
| 15:30-15:50 | <i>A Multivariate Orthonormal Vector Fitting Based Estimation Technique</i> , pp. 1632-1637. | WeB3.4 |
| | Ferranti, Francesco | Ghent Univ. Belgium |
| | Rolain, Yves | Vrije Univ. Brussel |
| | Vandermot, Koen | Vrije Univ. Brussel |
| | Knockaert, Luc | Ghent Univ. Belgium |
| | Dhaene, Tom | Ghent Univ. Belgium |
| 15:50-16:10 | <i>Identification of Multivariable Canonical State-Space Representations</i> , pp. 1638-1643. | WeB3.5 |
| | Bako, Laurent | Ec. des Mines de Douai |
| | Mercère, Guillaume | Univ. de Poitiers |
| | Lecoeuche, Stéphane | Ec. des Mines de Douai |
| 16:10-16:30 | <i>Three Approaches for System Identification by Impulse Response Fitting</i> , pp. 1644-1649. | WeB3.6 |
| | Vacher, Pierre | ONERA |

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|---|---------------|
| WeB4 | Vauban Room 2 |
| Structured Nonlinear System Identification (Regular Session) | |

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|-------------|--|--------------------------|
| | Chair: Mzyk, Grzegorz | Wroclaw Univ. of Tech. |
| | Co-Chair: Wingerden, van, Jan-Willem | Delft Univ. of Tech. |
| 14:30-14:50 | <i>Closed Loop Identification of MIMO Hammerstein Models Using LS-SVM</i> , pp. 1650-1655. | WeB4.1 |
| | Wingerden, van, Jan-Willem | Delft Univ. of Tech. |
| | Verhaegen, Michel | Delft Univ. of Tech. |
| 14:50-15:10 | <i>Identification of NARX Hammerstein Models Based on Large Scale Support Vector Machine Regression</i> , pp. 1656-1661. | WeB4.2 |
| | Westwick, David | Univ. of Calgary |
| | Al-Dhaifallah, Mujahed | Univ. of Calgary |
| 15:10-15:30 | <i>Identification of Piecewise Affine Systems Based on Dempster-Shafer Theory</i> , pp. 1662-1667. | WeB4.3 |
| | Boukharouba, Khaled | Ec. des Mines de Douai |
| | Bako, Laurent | Ec. des Mines de Douai |
| | Lecoeuche, Stéphane | Ec. des Mines de Douai |
| 15:30-15:50 | <i>Linear Regressive Realizations of LTI State Space Models</i> , pp. 1668-1673. | WeB4.4 |
| | Keesman, Karel | Wageningen Univ. |
| | Khairudin, Nurulhuda | Wageningen Univ. |
| 15:50-16:10 | <i>LPV Model Identification Using Blended Linear Models with Given Weightings</i> , pp. 1674-1679. | WeB4.5 |
| | Zhu, Yucai | Eindhoven Univ. of Tech. |
| 16:10-16:30 | <i>Semiparametric Approach to Hammerstein System Identification</i> , pp. 1680-1685. | WeB4.6 |
| | Greblicki, Wlodzimierz | Wroclaw Univ. of Tech. |
| | Mzyk, Grzegorz | Wroclaw Univ. of Tech. |

| WeB5 | | Bouvet Room 1 |
|---|--|---|
| Blind Estimation and Channel Equalization (Regular Session) | | |
| Chair: Dasgupta, Soura | | Univ. of Iowa |
| Co-Chair: Favier, Gérard | | Univ. of Nice - Sophia Antipolis / CNRS |
| 14:30-14:50 | | WeB5.1 |
| <i>Blind Maximum Likelihood Identification of Wiener Systems with Measurement Noise</i> , pp. 1686-1691. | | |
| Vanbeylen, Laurent | | Vrije Univ. Brussel |
| Pintelon, Rik | | Vrije Univ. Brussel |
| de Groen, Pieter | | Vrije Univ. Brussel |
| 14:50-15:10 | | WeB5.2 |
| <i>Subspace Based Nonlinear Multichannel Blind Identification/Equalization</i> , pp. 1692-1697. | | |
| Gomez, Juan Carlos | | Univ. Nacional De Rosario |
| Baeyens, Enrique | | Univ. of Valladolid |
| Poola, Kameshwar | | Univ. of California at Berkeley |
| 15:10-15:30 | | WeB5.3 |
| <i>Sensor-Only Noncausal Blind Identification of Pseudo Transfer Functions</i> , pp. 1698-1703. | | |
| D'Amato, Anthony | | Univ. of Michigan |
| Brzezinski, Adam | | Univ. of Michigan |
| Holzel, Matthew | | Univ. of Michigan |
| Ni, Jun | | Univ. of Michigan |
| Bernstein, Dennis S. | | Univ. of Michigan |
| 15:30-15:50 | | WeB5.4 |
| <i>Parafac-Based Blind Identification of Convolutional MIMO Linear Systems</i> , pp. 1704-1709. | | |
| Fernandes, Carlos Estêvão | | Univ. Federal do Ceará |
| Favier, Gérard | | Univ. of Nice - Sophia Antipolis / CNRS |
| Mota, Joao Cesar | | UFC |
| 15:50-16:10 | | WeB5.5 |
| <i>Optimum Sensor Placement for Source Monitoring under Log-Normal Shadowing</i> , pp. 1710-1714. | | |
| Dasgupta, Soura | | Univ. of Iowa |
| Ibeawuchi, Stella-Rita | | Univ. of Iowa |
| Ding, Zhi | | Univ. of California |
| 16:10-16:30 | | WeB5.6 |
| <i>Width Gear Spall Estimation Using Maximum Kurtosis Property</i> , pp. 1715-1719. | | |
| Youssef, Wedian | | UJM |
| Guillet, Francois | | UJM |
| Elbadaoui, Mohamed | | UJM |
| WeB6 | | Bouvet Room 2 |
| Mechanical and Aerospace III (Regular Session) | | |
| Chair: Bonchis, Adrian | | CSIRO |
| Co-Chair: Irwin, George W. | | Queen's Univ. of Belfast |
| 14:30-14:50 | | WeB6.1 |
| <i>Identification Applied to Temperature Measurement in Variable Velocity Flows</i> , pp. 1720-1725. | | |
| Brown, Colin | | Queen's Univ. Belfast |
| Kee, Robert J. | | Queen's Univ. Belfast |
| Irwin, George W. | | Queen's Univ. Belfast |
| McLoone, Sean F. | | National Univ. of Ireland, Maynooth |
| Hung, Peter C. F. | | National Univ. of Ireland, Maynooth |
| 14:50-15:10 | | WeB6.2 |
| <i>Recursive Identification of Cornering Stiffness Parameters for an Enhanced Single Track Model</i> , pp. 1726-1731. | | |
| Lundquist, Christian | | Linköping Univ. |
| Schön, Thomas Bo | | Linköping Univ. |
| 15:10-15:30 | | WeB6.3 |
| <i>Model Identification for Dragline Swing Assist Control Design</i> , pp. 1732-1737. | | |
| Bonchis, Adrian | | CSIRO Australia |
| Corke, Peter | | CSIRO Australia |
| 15:30-15:50 | | WeB6.4 |
| <i>Identification of Electrostatically Actuated MEMS Models from Real Measurement Data</i> , pp. 1738-1743. | | |
| Casenave, Céline | | LAAS-CNRS |
| Montseny, Emmanuel | | Univ. of Toulouse |
| Camon, Henri | | LAAS-CNRS |
| 15:50-16:10 | | WeB6.5 |
| <i>Adaptive Control for Piezo-Actuated Nano-Positioner</i> , pp. 1744-1749. | | |
| Chen, Xinkai | | Shibaura Inst. of Tech. |
| 16:10-16:30 | | WeB6.6 |
| <i>Eddy-Current Testing with the Expected Improvement Optimization Algorithm</i> , pp. 1750-1755. | | |
| Bilicz, Sandor | | Budapest Univ. of Tech. and Ec. |
| Vazquez, Emmanuel | | SUPELEC |
| Pavo, Jozsef | | Budapest Univ. of Tech. and Ec. |
| Lambert, Marc | | CNRS-SUPELEC-Univ. Paris-Sud |
| Gyimothy, Szabolcs | | Budapest Univ. of Tech. and Ec. |

| WeB7 | | Charcot Room |
|---|--|------------------------------|
| Data-Based Modelling of Water Resources Systems (Invited Session) | | |
| Chair: Garnier, Hugues | | Univ. of Nancy |
| Co-Chair: Young, Peter | | Lancaster Univ. |
| Organizer: Garnier, Hugues | | Univ. of Nancy |
| Organizer: Young, Peter | | Lancaster Univ. |
| 14:30-14:50 | | WeB7.1 |
| <i>DBM Models for Snowmelt Forecasting and Simulation (I)</i> , pp. 1756-1761. | | |
| Young, Peter | | Lancaster Univ. |
| Pianosi, Francesca | | Pol. di Milano |
| Castelletti, Andrea | | Pol. di Milano |
| Soncini-Sessa, Rodolfo | | Pol. di Milano |
| 14:50-15:10 | | WeB7.2 |
| <i>Reduced Order Emulation of Distributed Hydraulic Simulation Models (I)</i> , pp. 1762-1767. | | |
| Young, Peter | | Lancaster Univ. |
| Leedal, David | | Lancaster Univ. |
| Beven, Keith | | Lancaster Univ. |
| 15:10-15:30 | | WeB7.3 |
| <i>Identification of Parametrically-Varying Models for the Rainfall-Runoff Relationship in Urban Drainage Networks (I)</i> , pp. 1768-1773. | | |
| Previdi, Fabio | | Univ. degli Studi di Bergamo |
| Lovera, Marco | | Pol. di Milano |
| 15:30-15:50 | | WeB7.4 |
| <i>On-Line River Flow Forecasting with 'Hydromax' : Successes and Challenges after Twelve Years of Experience (I)</i> , pp. 1774-1779. | | |
| Bastin, Georges | | CESAME UCL |
| Moens, Luc | | CESAME UCL |
| Dierickx, Philippe | | SPW |
| 15:50-16:10 | | WeB7.5 |
| <i>Data-Based Mechanistic Rainfall-Runoff Continuous-Time Modelling in Urban Context (I)</i> , pp. 1780-1785. | | |
| Kuss, Damien | | ENGEEES |
| Laurain, Vincent | | Univ. of Nancy |
| Garnier, Hugues | | Univ. of Nancy |
| Vazquez, Jose | | ENGEEES |
| Zug, Mathieu | | VEOLIA WATER |
| 16:10-16:30 | | WeB7.6 |
| <i>An LPV Fractional Model for Canal Control</i> , pp. 1786-1791. | | |
| Bolea, Yolanda | | UPC |
| Martinez-Gonzalez, Ruben | | UPC |
| Grau, Antoni | | UPC |
| Martinez-Garcia, Herminio | | UPC |

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