

Prof. Sergio M. SAVARESI

Born in Manerbio (BS), Italy, on 1968.

Married. Two children.

- M.Sc. in Electrical Engineering from Politecnico di Milano, 1992 (100 cum Laude – average mark: 30/30)
 - Ph.D. in Systems and Control Engineering from Politecnico di Milano, 1996
 - M.Sc. in Applied Mathematics from the Catholic University of Brescia, 2000 (110 cum Laude – average mark: 30/30)
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In 1998-2001 he worked as top-management consultant at McKinsey&Co, Milan office

He has been visiting researcher at:

- Lund University, Sweden
- University of Twente, The Netherlands
- Canberra National University, Australia
- Stanford University, USA
- Minnesota University at Minneapolis, USA
- Johannes Kepler University, Linz, Austria.

Since 2006 he is Full Professor at Politecnico di Milano.

- Chair of the Systems&Control Section (40 faculty people; about 100 people overall) of the Department of Electronics and ICT
- Head of the MOVE research lab (4 faculty people; 25 people overall; <http://move.dei.polimi.it/>)
- Lecturer for the courses:
 - Automation and control in vehicles (M.Sc. course)
 - Model Identification and Data Analysis (M.Sc. course)

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Partner of private companies (high-tech university spin-off):

- E-shock srl (founded in 2008), specialized in electronic suspension systems and advanced inertial sensing in vehicles
 - eNovia srl (founded in 2012), specialized in powertrains and vehicle dynamics control for electric vehicles
 - Astra Yacht srl (founded in 2010), specialized in electronics and advanced systems for sailboats
 - ZEHUS srl (founded in 2013), specialized in innovative powertrains for light human-synergy vehicles
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PROJECTS AND RESEARCH CONTRACTS

Reserach contracts with funding agencies or public institutions

1. Partner of the project (sponsored by: Lombardia Region): "GreenMove" - 3rd-generation Vehicle-Sharing systems for urban mobility (2011-2013).
2. Partner of the project (sponsored by Italian Government, within the framework "Industria 2015"): "MUSS" - Urban and Infraurban Mobility Safe and Sustainable. In cooperation with large Italian Automotive (OEMs and Tier-1) Companies (2010-2013).
3. Partner (scientific) of Austrian Center of Competence in Mechatronics (ACCM) (2008-2012)

- Strategic Project: Methods and tools for self-optimizing control of complex mechatronical systems
 - Multi Firm Project: Adaptive optimal control for mechatronical systems under unknown operating conditions.
4. Partner of the project (sponsored by the Italian Government, within the framework “FIRB”): Highly innovative motorbikes with ultra-low emission engines, active suspensions, electronic brakes and new materials. In cooperation with MV-Agusta S.p.A. (2008-2010).
 5. Partner sub-contractor (main partner: with Piaggio Group) in the EU 6th-Framework Integrated Project: SAFESPOT - Co-operative Systems for Road Safety: Smart Vehicles on Smart Roads (2008-2010).
 6. Partner in th EU Interreg-REGINS project: SAFEBIKE - Stability control by Advanced Full-braking systems of 2-whEel motorBIKE vehicles (2005-2006).
 7. Partner of the project sponsored by the bilateral Italy-Austria scientific cooperation framework (Austrian Partner: Department of Design and Control of Mechatronic Systems, Johannes Kepler University, Linz, Austria): Smart tires: contact force estimation via innovative sensors and signal processing (2003-2004).

Research contracts with private companies

1. Research contract with Continental Teves (Frankfurt, Germany): analysis of an algorithm for lean-angle estimation and sensor-bias removal in a motorcycle (2012).
2. Research contract with Brembo (Bergamo, Italy): analysis and development of algorithms for the servo-control of electro-mechanical actuators for brake-by-wire (BBW) in vehicles (2012).
3. Research contract with Umbra Group (Foligno, Italy): development and implementation of algorithms for current and force control in electro-mechanical actuators based on DC-brushless motors, for active vibration control (2012).
4. Research contract with Astra Yacht (Monfalcone, Italy): development of a semi-automatic control system for motor-boats, for low-speed maneuvering (2012).
5. Research contract with BFT S.p.A (Schio, Vicenza, Italy): analysis and development of a control system for obstacles and crash detection in electric-drivers for gates (2012).
6. Research contract with KTM (Mattighofen, Austria): set-up and characterization on semi-active suspension control (20011-2012).
7. Research Contract with Honda Automotive Europe (Frankfurt, Garmany): E-SURF - Enhancing vehicles safety & handling via actively controlled aerodynamic SURFaces (2011).
8. Research contract with RSE (Milano, Italy): range, costs and emissions analysis for electric vehicles equipped with range-extendors (2011).
9. Research contract with ELDOR (Como, Italy): concept definition of an advanced and innovative electric vehicle (2011).
10. Research contract with Piaggio Group (Pontedera, Italy): analysis and development of a control system for semi active suspensions in powered-two-wheel vehicles (2011)
11. Research contract with Piaggio Group (Pontedera, Italy): analysis and developement of of a control system for the automatic gear-shift (2011)
12. Research contract with Piaggio Group (Pontedera, Italy): analysis and development of an active stability control system for motorcycles (2011)
13. Research contract with Magneti Marelli Motorsport (Milano, Italy): analysis and development of algorithms for electric motor/generator control of an hybrid powertrain in racing (F1) applications (2011).
14. Research contract with Teleparking (Milano, Italy): technology scouting for the implementation of a system for the drive-style estimation of drivers (2011).
15. Research contract with Panini (Torino, Italy): analysis and development of algorithms for document positioning on digital scanners (2011).
16. Research contract with Piaggio Group (Pontedera, Italy): analysis and development of closed-loop strategies for range-management on electric vehicles (2011).
17. Research contract with Piaggio Group (Pontedera, Italy): analysis of innovative mobility system based on vehicle-sharing concepts (2011).

18. Research contract with Accenture (Milano Office, Italy): review and optimization of models for estimation and prediction of depreciation curves for Intesa-Sanpaolo Leasing Division (2010)
19. Research contract with Astra Yacht (Monfalcone, Italy): analysis and development of an algorithm for on-line estimation of polar maps in sailboats (2010).
20. Research contract with Piaggio Group (Pontedera, Italy): analysis and development of a stability control system based on active brakes and semi-active dampers (2010)
21. Research contract with Piaggio Group (Pontedera, Italy): analysis and development of a gear-shift automatic control system, based on single-clutch or dual-clutch systems (2010)
22. Research contract with Accenture (Milano Office, Italy): review and optimization of models for credit scoring using predictive modeling, for Intesa-Sanpaolo Leasing Division (2010)
23. Research contract with ELDOR (Como, Italy): analysis and development of a digital test-bench for ageing analysis of Lithium cells (2010).
24. Research contract with Umbra Group (Foligno, Italy): development and implementation of algorithms for current and force control in electro-mechanical actuators based on DC-brushless motors, for active vibration control on air vehicles (2010).
25. Research contract with Ducati Motor (Bologna, Italy): analysis and development of control algorithms for semi active suspensions (2010)
26. Research contract with Seagate (Milano, Italy): preliminary analysis of the system architecture and layout for speed-control in hybrid (sail-electric) boats (2010).
27. Research contract with RSE (Milano, Italy): analysis of energy consumption of a large fleet of electric cars, and grid-impact analysis (2010).
28. Research contract with Piaggio Group (Pontedera, Italy): analysis, development and implementation of a control system for guaranteed autonomy in electric vehicles (2010).
29. Research Contract with MV-Agusta (Varese, Italy): analysis and development of control algorithms of the longitudinal dynamics and energy for a pedal assisted bicycle (2010).
30. Research Contract with SEMS (Milan, Italy): parallel hybrid vehicle not plug-in (2010).
31. Research Contract with Teleparking (Milan, Italy): development and analysis of a system for measuring the driving style of a driver of heavy vehicles for public transport (2010).
32. Research Contract with Teleparking (Milan, Italy): development and analysis of a system for estimating the driving style of vehicle drivers (2010).
33. Research Contract with Accenture (Office Milan, Italy): feasibility study of predictive models for credit-risk assessment (2009)
34. Research Contract with CEFRIEL and with Dainese (Milan and Vicenza, Italy): analysis of algorithms and development of motorcycle airbag triggering, after crash, with chassis-side sensors (2009).
35. Research contract with Piaggio Group (Pontedera, Italy): analysis and development of a system for identification and control of the out-of-plane dynamics of a two-wheeled vehicle (2009)
36. Research contract with Piaggio Group (Pontedera, Italy): analysis and development of a traction control system for motorcycles (2009)
37. Research Contract with Teleparking (Milan, Italy): study of a system for assessing the driving style of a driver of heavy vehicles for public transport, by analyzing signals that measure the dynamic behavior of the vehicle (2009).
38. Research contract with Piaggio Group (Pontedera, Italy): analysis and development of a system for identification and control of the in-plane dynamics of a two-wheeled vehicle, through electronically controlled suspensions and active brakes (2009)
39. Research Contract with ELDOR (Como, Italy): analysis, modeling and control of lithium batteries (2009)
40. Research contract with RSE (Milan, Italy): analysis of the energy absorption of a motor vehicle, in urban and suburban cycles, using inertial measurements (2009).
41. Research contract with Harley-Davidson Motor Company (Milwaukee, USA): Traction Control System (2009).
42. Research contract with Magneti Marelli Motorsport (Milan, Italy): analysis and development of algorithms for estimating the roll angle (lean angle) in two-wheeled vehicles, using inertial sensors (2009).
43. Research Contract with MV-Agusta (Varese, Italy): vehicle set-up for electronic control of traction, braking and suspensions (2009).
44. Research Contract with SEMS (Milan, Italy): concept development and control-system design of a micro-electric vehicle for personal mobility (2009).

45. Research contract with Piaggio Group (Pontedera, Italy): analysis and development of a system for detection and communication of road hazards - SMARTSAFE (2009).
46. Research contract with Yamaha Racing (Milan, Italy): optical systems for measuring the attitude of a superbike-class motorcycle (2008).
47. Research Contract with Brembo (Bergamo, Italy): analysis and development of algorithms for feedback control and for the estimation of not-measurable parameters in electromechanical brakes (2008).
48. Research contract with FIAT Group (Turin, Italy): definition and development of algorithms & strategies for chassis control systems: control algorithms for the control of vehicle stability through central-case 4WD (2008)
49. Research contract with Piaggio Group (Pontedera, Italy): analysis and development of an electronic control system of semi-active shock absorbers and steering dampers (2008)
50. Research contract with Piaggio Group (Pontedera, Italy): analysis and development of an electronic traction control system (2008)
51. Research contract with McKinsey & Co. (Milan Office, Italy): technical and business analysis of electronic control systems for motor vehicles (2008)
52. Research Contract with Joefly Company (Como, Italy): analysis and development of control algorithms for the management of vehicle dynamics and batteries in a pedal assisted bicycle (2007).
53. Research Contract with Same Deutz-Fahr Group (Treviglio, Italy): analysis and algorithm development of the electronic control system for the front suspension in agricultural tractors (2007).
54. Research Contract with Base-Tek4Value (Milan, Italy): analysis and development of algorithms for estimating the heading of marine vehicles (2007).
55. Research Contract with Same Deutz-Fahr Group (Treviglio, Italy): analysis and development of algorithms for parameters self-tuning of control systems for transmissions in agricultural tractors (2007).
56. Research contract with FIAT Group (Turin, Italy): definition and development of algorithms & strategies for chassis control systems: control algorithms for improved comfort and handling through dynamic allocation of damping (2007)
57. Research contract with FIAT Group (Turin, Italy): definition and development of algorithms & strategies for chassis control systems: control algorithms for the drift compensation through braking systems, ABS, and ESP (2007)
58. Research contract with FIAT Group (Turin, Italy): definition and development of algorithms & strategies for chassis control systems: control algorithms for increasing vehicle agility through ABS and ESP (2007)
59. Research contract with Piaggio Group (Pontedera, Italy): analysis and development of an electronic throttle control system (2007).
60. Research contract with Piaggio Group (Pontedera, Italy): analysis and development of an electronic suspension control system (2007).
61. Research Contract with Brembo (Bergamo, Italy): analysis and development of control algorithms and self-tuning system for the drive-away function in electromechanical brakes (Electric Parking Brake - EPB) (2007).
62. Research contract with Piaggio Group (Pontedera, Italy): analysis and development of semi-active suspensions for high performance motorcycles (2006)
63. Research contract with Centro Ricerche FIAT (Turin, Italy): development of control algorithms for semi-active suspensions (2006).
64. Research Contract with Brembo (Bergamo, Italy): analysis and development of an electronic brake control system without force sensors, for electro-mechanical brake-by-wire (BBW) systems (2006).
65. Research contract with Piaggio Group (Pontedera, Italy): analysis and development of adaptive and semi-active suspensions for scooters (2005).
66. Contract with Fondazione Politecnico di Milano and Indesit Company (Fabriano and Milan, Italy): analysis and development of control systems for electronically controlled suspension in a washing machine (2005).
67. Research contract with Same Deutz-Fahr Group (Treviglio, Italy): analysis and development of transmission control system for continuously variable Power-Split (2005).
68. Research contract with CEFRIEL (Milan, Italy): analysis and development of automation and control systems for vehicles and industrial equipment (2005).

69. Research contract with Piaggio Group (Pontedera, Italy): analysis of electronic control systems for motorcycles, to increase the comfort and safety (2005).
 70. Research contract with Whirlpool Italy (Varese, Italy): analysis of the functional-logical architecture of estimation, filtering and control algorithms, in home appliances, and analysis of optimality (2004).
 71. Research contract with ST-Microelectronics (Milan, Italy): analysis and development of identification and adaptive filtering algorithms, for the reconstruction of velocity and position of a PC-mouse, using the signals of tri-axial MEMS accelerometers (2004).
 72. Research contract with Aprilia (Noale, Italy): analysis and development of semi-active control algorithms of the pitch and vertical dynamic in motorcycles, using shock absorbers with variable damping (2004).
 73. Research Contract with CEFRIEL and with Toyota Motorsport (Milan, Italy and Cologne, Germany): Analysis and development of algorithms for the traction control in F1 vehicles (2004).
 74. Research Contract with Brembo (Bergamo, Italy): analysis and development of slip control algorithms, and estimation of longitudinal speed, in vehicles equipped with electromechanical brake-by-wire (BBW) systems (2004).
 75. Contract with Research Institute of Industrial Technologies and Automation (ITIA), CNR (Milan, Italy): analysis of open-source code generation tools of control algorithms (2004).
 76. Research Contract with Same Deutz-Fahr Group (Treviglio, Italy): analysis and development of control systems for semi-active vibration damping in the cabin of agricultural tractors (2004).
 77. Research Contract with Same Deutz-Fahr Group (Treviglio, Italy): design and development of control algorithms and software for ECUs used in agricultural vehicles (2004).
 78. Research contract with Centro Ricerche FIAT (Turin, Italy): identification of a dynamic model of a semi-active magneto rheological damper (2003).
 79. Research contract with the Italian Touring Club & Kel12 (Milan, Italy): analysis and modeling of data entry and web browsing pattern for the Kel12 website (2003).
 80. Research contract with LGL Electronics (Bergamo, Italy): analysis and development of an active braking control system in rapier looms (2003).
 81. Research Contract with SOTER (Milan, Italy): design and development of a system for acquisition, control, detection and treatment of the thickness of sheets, strips and laminates (2003).
 82. Research Contract with AIM (Milan, Italy): analysis and development of a dynamic simulation and optimization tool to support the choice of gear ratios in racing vehicles (2002).
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ORGANIZATION OF SCIENTIFIC EVENTS (INTERNATIONAL)

- International Program Committee (IPC) Member of IFAC Joint conference on: Symposium System Structure and Control; Workshops on Time-delay Systems and Fractional Differentiation and its Applications. Grenoble, France, February 2013.
- National Organizing Committee (NOC) Member of “IFAC World Congress”, Milano, September 2011.
- Member of the Organizing Committee of the “summer school on model based automotive control”, Linz, Austria, 25-27 August, 2010.
- Member of the Program Committee of the 1st Workshop on “Identification for Automotive Systems”, Linz, Austria, July 15-16, 2010.
- International Program Committee (IPC) Member of 7th International Conference on Informatics in Control, Automation and Robotics (ICINCO 2010), 15-18 June 2010, Madeira, Portugal.
- International Program Committee (IPC) Member of 2009 ASME Dynamic Systems and Control Conference, October 12-14, 2009, Hollywood, CA, USA.
- International Program Committee (IPC) Member of 18th IEEE International Conference on Control Applications (CCA), Saint Petersburg, Russia, July 8-10, 2009.
- International Program Committee (IPC) Member of 12th IFAC Symposium on Control in Transportation Systems (CTS'09), September 2-4, 2009, Redondo Beach, California, USA.
- International Program Committee (IPC) Member of “2008 IEEE International Conference on Control Applications (CCA2008)” which is part of the “2008 IEEE Multiconference on Systems and Control” (3-5 September 2008, San Antonio, Texas).

- International Program Committee (IPC) Member of “Emerging Issues” within the “12th IEEE Conference on Emerging Technologies and Factory Automation”, September 25-28, 2007 - Patras – Greece
 - International Program Committee (IPC) Member of “14th IFAC symposium on System Identification (SYSID06)”, Newcastle, Australia, 2006.
 - International Program Committee (IPC) Member of “1st IFAC symposium on Advances in Automotive Control (AAC04)”, Salerno, 19-23 Aprile 2004.
 - National Organizing Committee (NOC) Member of “IFAC symposium on Robust Control Design (ROCOND2003)”, Milano, 25-27 Giugno 2003.
 - National Organizing Committee (NOC) Member of “IFAC workshop on Adaptation and Learning in Control and Signal Processing (ALCOSP2001)”, Cernobbio, CO, 29-31 Agosto 2001.
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EDITORIAL ACTIVITY (INTERNATIONAL)

- Associate Editor, Control Engineering Practice (Elsevier) (2011-)
 - Associate Editor, International Journal of Vehicle Systems Modelling and Testing (2009-)
 - Associate Editor, IEEE Transactions on Control Systems Technology (2009-).
 - Associate Editor, IET (formerly IEE) Journal on Control Theory & Applications (2008-)
 - Associate Editor, European Journal of Control (2008-).
 - Associate Editor (Discussion Editor), European Journal of Control (2004-2007).
 - Associate Editor, Conference Editorial Board (IEEE Control Systems Society). (2005-)
 - Member of Technical Committee IFAC “Automotive Control” (TC 7.1). (2006-)
 - Member of Technical Committee (TC) on MARINE ROBOTICS of the IEEE Robotics and Automation Society (2008-)
 - Member of IEEE-CSS Technical Committee on System Identification and Adaptive Control (2007-).
 - Member of ASME Dynamic Systems and Control Division (DSCD) Automotive and Transportation Systems (ATS-TC) Technical Committee (2009-)
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PUBLICATION LIST (INTERNATIONAL)

Books

1. Tanelli M, S.M. Savaresi (Eds.) (2012). Modelling, Simulation and Control of Two-Wheeled Vehicles. Wiley-Blackwell, Chichester (UK) (to appear)
2. Savaresi S.M., C. Poussot-Vassal, C. Spelta, O. Sename, L. Dugard (2010). SEMI-ACTIVE SUSPENSION CONTROL FOR VEHICLES. Elsevier (Butterworth-Heinemann), UK (ISBN: 978-0-08-096678-6).
3. Savaresi S.M., M. Tanelli (2010). ACTIVE BRAKING CONTROL SYSTEM DESIGN FOR VEHICLES. 1st Edition., 2010 (ISBN: 978-1-84996-349-7), Springer-Verlag.
4. Boniolo Ivo, S.M. Savaresi (2010). Estimate of the lean angle of motorcycles (ISBN 978-3-639-26328-2), VDM Verlag, Germany.
5. Codecà F., P.Spagnol, S.M. Savaresi (2010). Lithium-Ion batteries for Electric Vehicles: Characterization, Modeling, State-of-Charge estimation and Desequalization phenomena (978-3639294637) VDM Verlag, Germany.

Book chapters

1. Hirsch M., D. Alberer, L. Del Re, S. Formentin, S.M. Savaresi (2011). Direct and indirect methods for DoE of automotive systems. In: “Design of Experiments (DoE) in Engine Development: Innovative

Development Methods for Vehicle Engines”, Karsten Ropke ed., Expert-Verlag, 2011 (ISBN: 978381693074).

2. Savaresi S.M., V. Manzoni, A. Corti, P. De Luca (2010). Estimation of the driver-style economy and safety via inertial measurements. In “Advances Microsystems for Automotive Applications 2010 – Smart Systems for Green Cars and Safe Mobility”. Gereon Meyer, Jurgen Valldorf (Eds.), Springer Verlag, Heidelberg (ISBN: 978-3-642-12647-5), pp.121-129.
3. Formentin S., S.M. Savaresi (2010). An Overview on System-Identification Problems in Vehicle Chassis Control. In “Identification for Automotive Systems”, Daniel Alberer and Greg Steward (Eds.), Springer (to appear).

Patents

1. MI2011A0001648 (2011). Electronic system for remote maintenance of a crane. Politecnico di Milano, Fassi Gru SpA, Università degli Studi di Bergamo (Spelta C., F. Previdi, S.M. Savaresi, R. Ceresoli, G. Fassi e R. Signori). Filed on 14/9/2011.
2. MI2011A001729 (2011). Method and system for controlling the stability of a two-wheeled vehicle by means of electronically adjustable suspension - E-Shock S.r.l., Politecnico di Milano (Savaresi S., De Filippi P., Delvecchio D.). Filed on 26/09/2011.
3. MI2011A000980 (2011). Method and apparatus for the active stability control in a two-wheeled vehicle. Piaggio & C. S.P.A., Politecnico di Milano (S.M. Savaresi, De Filippi P., Corno M., Tanelli M. M. Santucci). Filed on 30/05/2011.
4. EP11425120.0 (2011). Control of a suspension system of a vehicle equipped with four semiactive suspensions. Politecnico di Milano, Fiat Group Automobiles (Sergio M. Savaresi, Cristiano Spelta, Diego Delvecchio, Gabriele Bonaccorso, Fabio Ghirardo, Sebastiano Campo). Filed on 29/4/2011.
5. MI2011A000393 (2011). Method and electronic system for the automatic management of the energy autonomy of a vehicle, particularly in electric vehicles. Piaggio & C. S.P.A., Politecnico di Milano (S.M. Savaresi, A. Dardanelli, M. Tanelli, B. Picasso, O. Di Tanna, M. Santucci). Filed on 11/03/2011.
6. PCT/IB2011/050451 (2011), and MI2010A000195 (2010). Transport Vehicle. SEMS s.r.l., Politecnico di Milano (S.M. Savaresi, G. Alli, I. Boniolo, C. Spelta). Filed on 2/2/2011 and 10/2/2010.
7. MI2011A000150. Electrically pedal assisted bicycle. Politecnico di Milano, SEMS srl, FNM spa (Sergio M. Savaresi, Giovanni Alli, Cristiano Spelta, Pierfrancesco Spagnol, Massimo Vanzulli, Giuseppe Biesuz). Filed on 3/2/2011.
8. MI2010A002408 (2010). System and method for driver assistance in real time. Piaggio & C. S.P.A., Politecnico di Milano (Mario Donato Santucci, Onorino Di Tanna, Sergio Savaresi, Andrea Corti, Vincenzo Manzoni). Filed on 27/12/2010.
9. MI2010A002027 (2010). Apparatus, system and method for detecting accidents. DAINESE Spa, CEFRIEL Scarl, Politecnico di Milano (S.M. Savaresi, I. Boniolo, P. De Filippi, E. Silani, M. Perego). Filed on 29/10/2010.
10. 10161440.2-2425 (2010). “Method for controlling and electronically adjustable steering damper for a two-wheeled vehicle and apparatus implementing it”. Piaggio & C. S.P.A., Politecnico di Milano (S.M. Savaresi, M. Tanelli, M. Corno, P. De Filippi, S. Rossi, C. Spelta, L. Fabbri). Filed on 29/04/2010.
11. VE2010A00025 (2010). Electronic apparatus for control, performance improvement and training of sailboat drivers. Astra Yacht s.r.l., Politecnico di Milano (Andrea Strassera, Sergio Savaresi, Ivo Boniolo, Stefano Corbetta). Filed on 26/5/2010.
12. MI2010A 000877 (2010). Brevetto Italiano. Method of traction control from zero-speed (launch control) in a motor vehicle and apparatus which implements it. Piaggio&C. S.p.A, Politecnico di Milano (G. Panzani, M. Corno, S.M. Savaresi, L. Fabbri, A. Ricci, F. Fioravanzo, P.Lisanti). Filed on 17/5/2010.
13. MI2010A 000878 (2010). Method for wheelie detection and for traction management in a motorcycle. Piaggio&C. S.p.A, Politecnico di Milano (G. Panzani, M. Corno, S.M. Savaresi, L. Fabbri, A. Ricci, F. Fioravanzo, P. Lisanti). Filed on 17/5/2010.
14. MI2010A000261 (2010). System and method for estimating the driving style in a motor vehicle. Teleparking s.r.l., Politecnico di Milano (S.M. Savaresi, V. Manzoni, A. Corti). Filed on 19/2/2010.

15. EP09425332.5 (2009). System for enhancing cornering performance of a vehicle equipped with a stability control system. FIAT Group Automobiles - Politecnico di Milano (Savaresi Sergio Matteo, Corno Matteo, Natali Nicola, Fortina Andrea, Campo Sebastiano). Filed: 27/08/2009
16. MI2009A001013 (2009). Brevetto Italiano. System and method for traction control in a two-wheeled vehicle. Piaggio & C. S.P.A., Politecnico di Milano (S.M. Savaresi, M. Corno, S. Formentin, L. Fabbri). Filed on 9/6/2009.
17. MI2009A000904 (2009). Method for controlling an electronically adjustable steering damper for a two-wheeled vehicle and apparatus which implements it. Piaggio & C. S.P.A., Politecnico di Milano (S.M. Savaresi, M. Tanelli, M. Corno, P. De Filippi, S. Rossi, C. Spelta, L. Fabbri). Filed on 21/5/2009.
18. MI2009A000360 (2009). Command apparatus and control system for a propulsion system of a motor boat. Politecnico di Milano, Astra Yacht s.r.l. (A. Strassera, S.M. Savaresi, I. Boniolo). Filed on 11/03/2009.
19. MI2008A786 (2008). Method and system for allowing a user to set a damping curve on an electronic shock absorber, and electronic shock absorber implementing such method. Politecnico di Milano, Università degli studi di Bergamo (Savaresi S.M., Spelta C.). Filed on 29/4/2008. PCT extension n. PCT/EP2009/054801 (filed on 22/4/2009).
20. MI2008A001107 (2008). Method and device for automatic estimation of the heading of a vehicle. Politecnico di Milano, Base S.r.l. (Savaresi S.M., Boniolo I., Prandini M., Bittanti S., Borghi G., Garavelli B.). Filed on 18/6/2008.
21. MI2007A001417 (2007). Brevetto Italiano. Estimation method of suspension travel in a vehicle and apparatus which implements it. Piaggio & C. S.p.A., Politecnico di Milano (S.M. Savaresi, C. Spelta, L. Fabbri, A. Moneta, F. Tosi)
22. MI2007A559 (2007). Method and apparatus for determining the roll angle of a two-wheeled vehicle. Politecnico di Milano, CEFRIEL (S.M. Savaresi, M. Tanelli, I. Boniolo, V. Gariboldi, E. Silani).
23. PCT/IT2006/000134 (2006). A method for calculating forces acting on the footprint area and apparatus for calculating said forces. Pirelli Pneumatici S.p.A., Politecnico di Milano (Savaresi S., Tanelli M., Langthaler P.)
24. P02628/IT/FC (2006). Method and apparatus for controlling a semi-active suspension (Savaresi S., Spelta C.). PCT extension filed on 16/7/2007: PCT/IB2007/002033.
25. PCT/EP2005/050820 (2005). Automatic braking control system. Freni Brembo S.p.A. (Cantoni C., Savaresi S., Charalambakis D., Tanelli M.).

Journal papers

-----2012-----

1. Savaresi S.M. (2012). Automatic-control challenges in future urban vehicles: a blend of chassis, energy, and networking management. *Oil & Gas Science and Technology - Revue d'IFP Energies Nouvelles - ISSN (Print Edition): 1294-4475, ISSN (Electronic Edition): 1953-8189* (to appear).
2. De Castro R., R. Araújo, M. Tanelli, S.M. Savaresi, D. Freitas (2012). Torque Blending and Wheel Slip Control in EVs with In-Wheel Motors. *Vehicle System Dynamics* (to appear).
3. Poussot-Vassal C., C. Spelta, O. Sename, S.M. Savaresi, L. Dugard (2012). Survey and Performance Evaluation on Some Automotive Semi-Active Suspension Control Methods: a Comparative Study on a Single-Corner Model. *Annual Reviews in Control (IFAC – Elsevier)* (to appear).
4. Dardanelli A., M. Tanelli, B. Picasso, S.M. Savaresi, O. di Tanna, M. Santucci (2012). A smartphone-in-the-loop active state-of-charge manager for electric vehicles. *IEEE/ASME Transactions on Mechatronics* (to appear).
5. Formentin S., S.M. Savaresi, L. Del Re (2012). Noniterative direct data-driven controller tuning for multivariable systems: theory and application. *IET Control Theory & Applications* (to appear).
6. De Filippi P., M. Corno, M. Tanelli, S.M. Savaresi (2012). Single-Sensor Control Strategies for Semi-active Steering Damper Control in Two-Wheeled Vehicles. *IEEE Transactions on Vehicular Technology* (to appear).
7. Formentin S., P. De Filippi, M. Corno, M. Tanelli S.M. Savaresi (2012). Data-driven design of braking control systems. *IEEE Transactions on Control Systems Technology* (to appear).

8. Formentin S., M. Corno, S.M. Savaresi, L. Del Re (2012). Direct data-driven control of linear time-delay systems. *Asian Journal of Control* (to appear).
9. Codecà F., S.M. Savaresi, C. Spelta, M. Montiglio, M. Ieluzzi (2012). Semi-Active Lateral Control of Railway Vehicles. *Asian Journal of Control* (to appear).

-----2011-----

10. De Filippi P., M. Tanelli, M. Corno, S.M. Savaresi, L. Fabbri (2011). Semi-active steering damper control in two-wheeled vehicles. *IEEE Transactions on Control Systems Technology*, Vol.19, n.5, pp.1003-1020.
11. Manenti A., A. Merati, A. Abba, A. Geraci, S.M. Savaresi (2011). A New BMS Architecture Based on Cell Redundancy. *IEEE Transactions on Industrial Electronics*, Vol.58, n.9, pp.4314-4322.
12. Poussot-Vassal C., O. Sename, L. Dugard, S.M. Savaresi (2011). Vehicle Dynamic Stability Improvements Through Gain-Scheduled Steering and Braking Control. *Vehicle System Dynamics*, Vol. 49, No. 10, pp. 1597-1621.
13. Tanelli M., G. Panzani, S.M. Savaresi, C. Pirola (2011). Transmission Control for Power-shift Agricultural Tractors: Design and End-of-line Automatic Tuning. *Mechatronics*, Vol.21, n.1, pp.285-297.
14. Corno M., M. Tanelli, S.M. Savaresi, L. Fabbri (2011). Design and Validation of a Gain-Scheduled Controller for the Electronic Throttle Body in Ride-by-Wire Racing Motorcycles. *IEEE Transactions on Control Systems Technology*, vol.19, n.1, pp.18-30.
15. Spelta C., F. Previdi, S.M. Savaresi, P. Bolzern, M. Cutini, C. Bisaglia, S.A. Bertinotti (2011). Performance Analysis of Semiactive Suspensions with Control of Variable Damping and Stiffness. *Vehicle System Dynamics*, Vol.49. Ns.1–2 (January–February 2011), pp.237-256.

-----2010-----

16. Panzani G., M. Corno, M. Tanelli, A. Zappavigna, S.M. Savaresi, A. Fortina, S. Campo (2010). On-demand four-wheel-drive vehicles design via central transfer case active control. *IEEE Transactions on Intelligent Transportation Systems*, vol.11, n.4, 931-941.
17. Spelta C., S.M. Savaresi, L. Fabbri (2010). Experimental analysis of a motorcycle semi-active rear suspension. *Control Engineering Practice*, Vol.18, pp.1239–1250.
18. Manzoni V., M. Tanelli, S.M. Savaresi, F. Taroni (2010). Automatic end-of-line tuning for a motion inverter in agricultural tractors. *Control Engineering Practice*, Vol.18, pp.1342–1355.
19. Spelta C., V. Manzoni, A. Corti, A. Goggi, S.M. Savaresi (2010). Smartphone Based Vehicle-to-Driver/Environment Interaction System for Motorcycles. *IEEE Embedded Systems Letters*, vol.2, no.2, pp.39-42.
20. Corno M., S.M. Savaresi (2010). Experimental Identification of Engine-to-Slip Dynamics for Traction Control Applications in a Sport Motorbike. *European Journal of Control*, Vol.16, n.1, pp.88-108.

-----2009-----

21. Tanelli M., M. Corno, I. Boniolo, S.M. Savaresi (2009). Active Braking Control of Two-Wheeled Vehicles on Curves. *International Journal of Vehicle Autonomous Systems – Special issue on “new challenges in global chassis control”*, Vol.7, No. 3/4, pp.243-269.
22. Corno M., S.M. Savaresi, R. Scattolini, E. Comignaghi, M. Sofia, A. Palma, E. Sepe (2009). Rapid virtual prototyping and dynamics analysis of a common rail injection system for gasoline engines. *International Journal of Vehicle Systems Modelling and Testing*, Vol. 4, Nos. 1/2, pp.17-42.
23. Tanelli, C. Vecchio, A. Ferrara, M. Corno, S.M. Savaresi (2009). Traction Control for Ride-by-Wire Sport Motorcycles: a Second Order Sliding Mode Approach. *IEEE Transactions on Industrial Electronics*, Vol.56, n.9, pp.3347-3356.
24. Tanelli M., L. Piroddi, S.M. Savaresi (2009). Real-time identification of tire-road friction conditions. *IET Control Theory & Applications*, Vol.3, n.7, pp.891-906.
25. Corno M., Savaresi S.M., Balas G.J. (2009). On Linear Parameter Varying (LPV) Slip-Controller Design for Two-Wheeled Vehicles. *International Journal on Robust and Nonlinear Control*, Vol.19, pp.1313-1336.
26. Tanelli M., G. Osorio, M. Di Bernardo, S.M. Savaresi, A. Astolfi (2009). Existence, Stability and Robustness Analysis of Limit Cycles in Hybrid Anti-lock Braking Systems. *International Journal of Control*, Vol.82, n.4, pp.659-678.
27. Norgia M., I. Boniolo, M. Tanelli, S.M. Savaresi, C. Svelto (2009). Optical Sensors for Real-Time Measurement of Motorcycle Tilt Angle. *IEEE Transactions on Instrumentation & Measurement*, Vol.58, n.5, pp.1640-649.

28. Spelta C., F. Previdi, S.M. Savaresi, G. Fraternali, N. Gaudio (2009). Control of magnetorheological dampers for vibration reduction in a washing machine. *Mechatronics (Elsevier)*, Vol.19, pp.410-421.
29. Boniolo I., Tanelli M., Savaresi S.M. (2009). Roll angle estimation in two-wheeled vehicles. *IET Control Theory & Applications*, Vol.3, n.1, pp.20-32.
30. Savaresi S.M., C. Spelta (2009). A Single-Sensor Control Strategy for Semi-Active Suspensions. *IEEE Transactions on Control System Technology*, Vol.17, n.1, pp.143-152.

-----2008-----

31. Codecà F., Tanelli M., Savaresi S.M., Frignati D., Taroni F., Tascetta L. (2008). Management of angular speed sensors for control at the power-zero condition of a continuously variable transmission: a describing-function approach. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, Vol.222, n.2, pp.2269-2282.
32. Savaresi S.M., C. Spelta, D. Ciotti, M. Sofia, E. Rosignoli, E. Bina (2008). Virtual selection of the optimal gear-set in a race car. *International Journal on Vehicle Systems Modelling and Testing* Vol. 3, No.1, pp.47-67.
33. Savaresi S.M., M. Tanelli, P. Langthaler, L. del Re (2008). New Regressors for the Direct Identification of Tire-Deformation in Road Vehicles via “in-Tire” Accelerometers. *IEEE Transactions on Control System Technology*, Vol. 16, No. 4, pp. 769-780.
34. Tanelli M., A. Astolfi, S.M. Savaresi (2008). Robust Nonlinear Output Feedback Control for Brake by Wire Control Systems. *Automatica*, Vol.44, n.4, pp. 1078-1087.
35. Corno M., S.M. Savaresi, M. Tanelli, L. Fabbri (2008). On Optimal Motorcycle Braking. *Control Engineering Practice*, Vol.16, n.6, pp.644–657 (awarded with the Best-paper prize for Control Engineering Practice, in the period 2008-2010).
36. Donida F., G. Ferretti, S.M. Savaresi, M. Tanelli (2008). Object-oriented modeling and simulation of a motorcycle. *Mathematical and Computer Modelling of Dynamical Systems*, Vol.14, n.2, pp.79–100.

-----2007-----

37. Tanelli M., R. Sartori, S.M. Savaresi (2007). Combining slip and deceleration control for brake-by-wire control systems: a sliding-mode approach. *European Journal of Control*, Vol.13, n.6, pp.593-611.
38. Corno M., S.M. Savaresi, M. Tanelli, L. Fabbri (2007). Optimal braking maneuvers: the role of front and rear tires on a sports motorcycle. *Tire Technology International*, vol.2007, pp.40-46.
39. Previdi F., S.M. Savaresi, P. Guazzoni, L. Zetta (2007). Detection and clustering of light charged particles via system identification techniques. *International Journal of Adaptive Control and Signal Processing*, vol.21, pp.375-390.
40. Savaresi S.M., C. Spelta (2007). Mixed Sky-Hook and ADD: Approaching the Filtering Limits of a Semi-Active Suspension. *ASME Transactions: Journal of Dynamic Systems, Measurement and Control*, vol.129, n.4, pp.382-392.
41. Savaresi S.M., M. Tanelli, C. Cantoni (2007). Mixed slip-deceleration control in automotive braking systems. *ASME Transactions: Journal of Dynamic Systems, Measurement and Control*, Vol.129, n.1, pp.20-31 (awarded with the 2007 ASME Dynamic Systems and Control Rudolf Kalman Best Paper Award)

-----2006-----

42. Savaresi S.M., M. Tanelli, P. Langthaler, L. Del Re (2006). Estimation of X-Z tire contact force via embedded accelerometers. *Tire Technology International*, vol.2006, pp.74-78.
43. Savaresi S.M., M. Tanelli, F. Taroni, F. Previdi, S. Bittanti (2006). Analysis and design of an automatic motion-inver. *IEEE/ASME Transactions on Mechatronics*, Vol.11, n.3, pp.346-357.
44. Previdi F., S.M. Savaresi, A. Panarotto (2006). Design of a feedback control system for real-time control of flow in a single-screw extruder. *Control Engineering Practice*, Vol.14, pp.1111–1121.
45. Campi M., S.M. Savaresi (2006). Direct nonlinear control design: the Virtual Reference Feedback Tuning (VRFT) approach. *IEEE Transactions on Automatic Control*, Vol.51, n.1, pp.14-27 (Full paper).

-----2005-----

46. Savaresi S.M., E. Silani, S. Bittanti (2005). Acceleration-driven-damper (ADD): an optimal control algorithm for comfort-oriented semi-active suspensions. *ASME Transactions: Journal of Dynamic Systems, Measurement and Control*, vol.127, n.2, pp.218-229.
47. Savaresi S.M., S. Bittanti, M. Montiglio (2005). Identification of semi-physical and black-box nonlinear models: the case of MR-dampers for vehicles control. *Automatica*, vol.41, pp.113-117.

48. Previdi F., M. Ferrarin, S.M. Savaresi, S. Bittanti (2005). Closed-loop control of FES supported standing up and sitting down using Virtual Reference Feedback Tuning. *Control Engineering Practice*, vol.13, n.9, pp.1173-1182.
49. Previdi F., M. Ferrarin, S.M. Savaresi, S. Bittanti (2005). Gain scheduling control of Functional Electrical Stimulation for standing up and sitting down in paraplegia. *International Journal on Adaptive Control and Signal Processing*, vol.19, n.5, pp.327-338.

-----2004-----

50. Silani E., Savaresi S.M., Bittanti S., Fischer D., Isermann R. (2004). Managing Information redundancy for the design of fault-tolerant slow-active controlled suspension. *Tire Technology International*, vol.2004, pp. 128-133.
51. Savaresi S.M., F. Taroni, F. Previdi, S. Bittanti (2004). Control System Design on a Power-Split CVT for High-Power Agricultural Tractors. *IEEE/ASME Transactions on Mechatronics*, vol.9, n.3, pp.569-579.
52. Garatti S., S.M. Savaresi, S. Bittanti, L. La Brocca (2004). On the Relationships between the User DB and the Web-Log File of a Large Virtual Community: a Data-Mining Approach. *International Journal on Intelligent Data Analysis*, vol.8, n.6, pp.579-600.
53. Savaresi, S.M., D.L. Boley (2004). A Comparative Analysis on the Bisecting K-Means and the PDDP Clustering Algorithms. *International Journal on Intelligent Data Analysis*, vol.8, n.4, pp.345-362.
54. Savaresi S.M., F. Previdi, A. Dester, S. Bittanti, A. Ruggeri (2004). Modeling, Identification, and Analysis of Limit-Cycling Pitch and Heave Dynamics in a ROV. *IEEE Journal of Oceanic Engineering*, Vol.29, n.2, pp.407-417.
55. Previdi F., T. Schauer, S.M. Savaresi, K.J. Hunt (2004). Data-Driven Control Design for Neuroprotheses: a Virtual Reference Feedback Tuning (VRFT) Approach. *IEEE Transactions on Control Systems Technology*, vol.12, n.1, pp.176-182.

-----2003-----

56. Savaresi S.M., S. Bittanti, H.C. So (2003). Closed-form Unbiased Frequency Estimation of a Noisy Sinusoid Using Notch Filters. *IEEE Transactions on Automatic Control*, vol.48, n.7, pp.1285-1292.
57. Campi M.C., Lecchini A., Savaresi S.M. (2003). An application of the Virtual Reference Feedback Tuning (VRFT) method to a benchmark active suspension system. *European Journal of Control*, vol.9, pp.66-76.
58. Savaresi S.M., F. Taroni, F. Previdi, S. Bittanti (2003). On the Design and Tuning of the Controllers in a Power-Split CVT for Agricultural Tractors. *Journal of Automobile Engineering (Proceedings of the Institution of Mechanical Engineers, Part D)*, vol.217, n.8D, pp.745-759.
59. Silani E., S.M. Savaresi, S. Bittanti, A. Visconti, F. Farachi (2003). The concept of performance-oriented yaw-control systems: vehicle model and analysis. *SAE Transactions, Journal of Passenger Cars - Mechanical Systems*. vol. year 2002, ISBN n. 0-7680-1290-2, pp.1808-1818.

-----2002-----

60. Lecchini A., M.C. Campi, S.M. Savaresi (2002). Virtual reference feedback tuning for two degree of freedom controllers. *International Journal on Adaptive Control and Signal Processing*, vol.16, n.5, pp.355-371.
61. Bittanti S., Dell'Orto F., Di Carlo A., S.M. Savaresi (2002). Notch Filtering and Multirate Control for Radial Tracking in High-Speed DVD-Players. *IEEE Trans. on Consumer Electronics*, vol.48, n.1, pp.56-62.
62. Campi M.C., A. Lecchini, S.M. Savaresi (2002). Virtual Reference Feedback Tuning: a Direct Method for the Design of Feedback Controllers. *Automatica*, vol.38, n.8, pp.1337-1346.

-----2001-----

63. Guardabassi G.O., S.M. Savaresi (2001). Approximate Linearization via Feedback - an Overview. Survey paper. *Automatica*, vol.27, pp.1-15.
64. Savaresi S.M., R.R. Bitmead, R. Peirce (2001). On modelling and control of a rotary sugar dryer. *Control Engineering Practice*, vol.9, pp.249-266.
65. Savaresi S.M., R. Bitmead, W. Dunstan (2001). Nonlinear system identification using closed-loop data with no external excitation: the case of a lean combustion process. *International Journal of Control*, vol.74, n.18, pp.1796-1806.
66. W. Dunstan, R.R. Bitmead, S.M. Savaresi (2001). Fitting Nonlinear Low-Order Models for Combustion Instability Control. *Control Engineering Practice*, vol.9, pp.1301-1317.

-----2000-----

67. Bittanti S., Gatti E., Ripamonti G., Savaresi S.M. (2000). Poles identification of an analog filter for nuclear spectroscopy via subspace-based techniques. *IEEE Transactions on Control System Technology*, vol.8, n.1, pp.127-137.
68. Savaresi, S.M., B. Wittenmark (2000). Rejection of narrow-band disturbances subject to uncertain time-delays. *International Journal of Adaptive Control and Signal Processing*, vol.14, pp.39-49.
69. Guardabassi G.O., Savaresi S.M. (2000). Virtual Reference Direct Design method: an off-line approach to data-based control system design. *IEEE Transactions on Automatic Control*, vol.45, n.5, pp.954-959.
70. Savaresi, S.M, H. Nijmeijer, G.O. Guardabassi (2000). On the design of approximate nonlinear parametric controllers. *International Journal of Robust and Nonlinear Control*, vol.10, pp.137-155.
71. Bertin, D., S. Bittanti, S.M. Savaresi (2000). The decoupled cushion control in ride control systems for air cushion catamarans. *Control Engineering Practice*, vol.8, pp.191-203.
72. Bittanti, S., S.M. Savaresi (2000). On the parametrization and design of an Extended Kalman Filter Frequency Tracker. *IEEE Transactions on Automatic Control*, vol.45, no.9, September Issue, pp.1718-1724.

-----1999-----

73. Savaresi S.M. (1999). Exact feedback linearization of a 5-th order model of synchronous generators. *IEE Proceedings on Control Theory and Applications*, vol.146, n.1, pp.53-57 .

-----1998-----

74. Nijmeijer H., Savaresi S.M. (1998). "On approximate model-reference control of SISO discrete-time nonlinear systems". *Automatica*, vol.34, n.10, pp.1261-1266.
75. Händel P., Tichavsky P., Savaresi S.M. (1998). Large error recovery for a class of frequency tracking algorithms. *International Journal on Adaptive Control and Signal Processing*, vol.12, pp.417-436.
76. Bittanti S., Savaresi S.M. (1998). Hierarchically Structured Neural Networks: a way to shape a "magma" of neurons. *International Journal of the Franklin Institute*, vol.335B, n.5, pp.929-950.
77. Bertin D., Bittanti S., Savaresi S.M. (1998). A Neural-Network simulator for the 3-lobes stern seal of a S.E.S.. *Intelligent Automation and Soft Computing*, vol.3, n.4, pp.331-344.
78. Savaresi S.M., Guardabassi G.O. (1998). Approximate I/O feedback linearization of discrete-time non-linear systems via Virtual Input Direct Design. *Automatica*, vol.34, n.6, pp.715-722.

-----1997-----

79. Savaresi S.M. (1997). Funnel Filters: a new class of filters for frequency estimation of harmonic signals. *Automatica*, vol.33, n.9, pp.1711-1718.
80. Bittanti S., Campi M., Savaresi S.M. (1997). Unbiased estimation of a sinusoid in noise via Adapted Notch Filters. *Automatica*, vol.33, n.2, pp.209-215.
81. Guardabassi G.O., Savaresi S.M. (1997). Approximate feedback linearization of discrete-time non-linear systems using Virtual Input Direct Design. *Systems & Control Letters*, vol.32, pp.63-74.
82. Savaresi S.M., Guardabassi G.O. (1997). Invertible non-linear parametric functions for systems identification and control. *International Journal of Robust and Nonlinear Control*, vol.8, pp.741-762.
83. Bittanti S., Gatti E., Ripamonti G., Savaresi S.M. (1997). High accuracy fit of the poles of spectroscopy amplifiers designed for mixed analog-digital filtering. *IEEE Transactions on Nuclear Science*, vol.44, n.2, pp.125-133.

Conference&Symposium papers

-----2012-----

1. Corti A., V. Manzoni, S.M. Savaresi, M. Santucci, O. Di Tanna (2012). A centralized real-time driver assistance system for road safety based on Smartphone. *International Conference on Smart Systems for Safe, Sustainable, and Networked Vehicles (within the International Forum on Advanced Microsystems for Automotive Applications (AMAA))*, Berlin, Germany (to appear).
2. Panzani G., M. Corno, S.M. Savaresi (2012). Longitudinal Velocity Estimation in Two-Wheeled Vehicles. *16th IFAC Symposium on System Identification (SYSID 2012)*, Brussels, Belgium (to appear).
3. Panzani, S. Formentin, S.M. Savaresi (2012). Active motorcycle braking via direct data-driven load transfer scheduling. *16th IFAC Symposium on System Identification (SYSID 2012)*, Brussels, Belgium (to appear).

4. Corno M., P. De Filippi, V. Turri, S.M. Savaresi (2012). Control-Oriented Modeling of Motorcycle Dynamics. 16th IFAC Symposium on System Identification (SYSID 2012), Brussels, Belgium (to appear).
5. Panzani G., M. Corno, S.M. Savaresi (2012). On the Periodic Noise Affecting Wheel Speed Measurement. 16th IFAC Symposium on System Identification (SYSID 2012), Brussels, Belgium (to appear).
6. Formentin S., A. Karimi, S.M. Savaresi (2012). On input design for direct data-driven controller tuning. 16th IFAC Symposium on System Identification (SYSID 2012), Brussels, Belgium (to appear).
7. Formentin S., M. Corno, D. Alberer, C. Benatzky, L. del Re, S.M. Savaresi (2012). NOx virtual sensor design via in-cylinder pressure feature extraction. 16th IFAC Symposium on System Identification (SYSID 2012), Brussels, Belgium (to appear).
8. Spagnol P., G. Alli, P. Lisanti, F. Todeschini, C. Spelta, S.M. Savaresi (2012). A full hybrid electric bike: how to increase human efficiency. American Control Conference, Montréal, Canada (to appear).
9. Formentin S., M. Hirsch, S.M. Savaresi, L. Del Re (2012). Direct data-driven control of a Diesel engine airpath. American Control Conference, Montréal, Canada (to appear).
10. Alli G., S. Formentin, S.M. Savaresi (2012). A range-bounding strategy for electric scooters. 1st IEEE International Electric Vehicle Conference (IEVC), Greenville, SC, USA (to appear).
11. Dardanelli A., M. Tanelli, S.M. Savaresi, M.D. Santucci (2012). Active energy management of electric vehicles with cartographic data. 1st IEEE International Electric Vehicle Conference (IEVC), Greenville, SC, USA (to appear).
12. Boniolo I., M. Tanelli, S.M. Savaresi (2012). Lean Angle Estimation in Two-Wheeled Vehicles with a Reduced Sensor Configuration. IEEE International Symposium on Circuits & Systems (ISCAS), Seoul, Korea (to appear).
13. Formentin S., S.M. Savaresi (2011). Noniterative data-driven design of multivariable controllers. 50th IEEE Conference on Decision and Control and European Control Conference, Orlando, FL (to appear).

-----2011-----

14. Formentin S., S.M. Savaresi (2012). Noniterative data-driven design of multivariable controllers. 50th IEEE Conference on Decision and Control and European Control Conference, Orlando, FL, pp.5106-5111.
15. Dardanelli A., M. Tanelli, B. Picasso, S.M. Savaresi, O. Di Tanna, M. Santucci (2011). Speed and acceleration controllers for a light electric two-wheeled vehicle. 50th IEEE Conference on Decision and Control and European Control Conference, Orlando, FL , pp.2523-2528.
16. De Filippi P., Sergio M. Savaresi (2011). A mixed frequency/time-domain method to evaluate the performance of semi-active steering damper control strategies during challenging maneuvers. 4th ASME Dynamic Systems and Control Conference (DSCC), Arlington, VA, pp.1-8.
17. De Filippi P., S. Formentin, S.M. Savaresi (2011). A comparison between model-based and data-driven design of an active stability control system for two-wheeled vehicles. 4th ASME Dynamic Systems and Control Conference (DSCC), Arlington, VA , pp.1-8.
18. Delvecchio D., C. Spelta, S.M. Savaresi (2011). Estimation of the Tire Vertical Deflection in a Motorcycle Suspension via Kalman-Filtering Techniques. IEEE Multi-conference on Systems and Control (MSC), Denver, CO, pp.532-537.
19. Spagnol P., S. Rossi, S.M. Savaresi (2011). Kalman Filter SoC estimation for Li-Ion batteries. IEEE Multi-conference on Systems and Control (MSC), Denver, CO, pp.587-592.
20. Giani P., F. Todeschini, S. Corbetta, M. Tanelli, S.M. Savaresi, L. Fabbri (2011). Control-oriented analysis and quality assessment of gear shifting in motorcycles. IEEE Multi-conference on Systems and Control (MSC), Denver, CO, pp.326-331.
21. Dardanelli A., M. Tanelli, B. Picasso, S.M. Savaresi, O. Di Tanna, M. Santucci (2011). Control-oriented energy-profiling and modelling of urban electric vehicles. IEEE Multi-conference on Systems and Control (MSC), Denver, CO, pp.332-337.
22. Spelta C., I. Boniolo, S.M. Savaresi, G. Alli, M. Vanzulli (2011). A Planar Electric Vehicle with Differential Steering and Plantar Command. IEEE Multi-conference on Systems and Control (MSC), Denver, CO, pp.1457-1460.

23. Alli G., S.M. Savaresi (2011). Electric vehicles integration in multi-business vehicle-sharing model: the “key-less” mobility. Proceeding of the REACT Conference (shaping climate friendly transport in Europe: key findings and future directions), Belgrade, Serbia, pp.27-34.
24. Corti A., V. Manzoni, S.M. Savaresi, M. Santucci and O. Di Tanna (2011). A centralized real-time Advanced Driver Assistance System based on smartphones. First Workshop on Pervasive Urban Applications (PURBA), within the 9th International Conference on Pervasive Computing, San Francisco, CA, USA, pp.69-76.
25. Formentin S., A. Cologni, D. Belloli, F. Previdi, S.M. Savaresi (2011). Fast tuning of cascade control systems. 18th IFAC World Congress, Milano, Italy, pp.10243-10248.
26. Panzani G., M. Corno, S.M. Savaresi (2011). Design of an Adaptive Throttle-by-Wire Control System for a Sport Motorbike. 18th IFAC World Congress, Milano, Italy, pp.4785-4790.
27. Previdi F., D. Belloli, A. Cologni, S.M. Savaresi, D. Cazzola, M. Madaschi (2011). Control system design for a continuous gravimetric blender. 18th IFAC World Congress, Milano, Italy, pp.1025-1030.
28. Manenti A., A. Abba, A. Geraci, S.M. Savaresi (2011). A New Cell Balancing Architecture for Li-ion Batteries Based on Cell-Redundancy. 18th IFAC World Congress, Milano, Italy, pp.12150-12155.
29. Poussot-Vassal C., C. Spelta, O. Sename, S.M. Savaresi, L. Dugard (2011). Survey on Some Automotive Semi-Active Suspension Control Methods: a Comparative Study on a Single-Corner Model (contributed survey paper). 18th IFAC World Congress, Milano, Italy, pp.1802-1807.
30. Manzoni M., A. Corti, S.M. Savaresi, M. De Nigris, I.M. Gianinoni (2011). A Preliminary Analysis of Grid Impact of Electric Vehicles via Inertial Measurements. 18th IFAC World Congress, Milano, Italy, pp.9709-9714.
31. De Filippi P., M. Tanelli, M. Corno, S.M. Savaresi (2011). Enhancing active safety of two-wheeled vehicles via electronic stability control. 18th IFAC World Congress, Milano, Italy, pp.638-643.
32. Formentin S., S.M. Savaresi (2011). Virtual Reference Feedback Tuning for linear parameter-varying systems. 18th IFAC World Congress, Milano, Italy, pp.10219-10224.
33. Formentin S., A. Karimi, S.M. Savaresi (2011). Direct data-driven H2-Hinf loop-shaping. 18th IFAC World Congress, Milano, Italy, pp.11423-11428.
34. Corbetta S., I. Boniolo, S.M. Savaresi, S. Vischi, A. Strassera, D. Malgarise (2011). Real-time identification of the best performances of a sailboat. American Control Conference, San Francisco, CA, USA, pp.4941-4946.
35. Manzoni V., A. Corti, A. Rossi, S. Tissino, S.M. Savaresi (2011). GPS Offset Estimation and Correction Using Satellite Constellation Information. IEEE International Symposium on Circuits and Systems (ISCAS 2011), Rio de Janeiro, Brazil, pp.1097-1100.

-----2010-----

36. Funke J., A. Alexandridis, S.M. Savaresi, C. Spelta (2010). Electrorheological Dampers as a Basis for Semi-active Motorcycle Suspensions. 8th International Motorcycle Conference - Safety – Environment – Future, Cologne, Gemany, pp.1-14.
37. Corbetta S., A. Dardanelli, I. Boniolo, S.M. Savaresi, S. Bittanti (2010). Frequency estimation of narrow band signals in Gaussian noise via Unscented Kalman Filter. 49th IEEE Conference on Decision and Control, Atlanta, GA, USA, pp.2869-2874.
38. Poussot-Vassal C., S.M. Savaresi, C. Spelta, O. Sename, L. Dugard (2010). A Methodology for Optimal Semi-Active Suspension Systems Performance Evaluation. 49th IEEE Conference on Decision and Control, Atlanta, GA, USA, pp.2892-2897.
39. Formentin S., S.M. Savaresi, M. Hirsch, L. Del Re (2010). On the experimental protocol in Virtual Reference Feedback Tuning. 49th IEEE Conference on Decision and Control, Atlanta, GA, USA, pp.5554-5559.
40. Formentin S., M. Corno, S.M. Savaresi, L. Del Re (2010). Virtual Reference Feedback Tuning of Internal Model Controllers. 49th IEEE Conference on Decision and Control, Atlanta, GA, USA, pp.5542-5547.
41. Delvecchio D., C. Spelta, G. Perico, S.M. Savaresi (2010). Accelerometer-based estimation of the elongation speed in a motorcycle suspension via Kalman-filter techniques. 49th IEEE Conference on Decision and Control, Atlanta, GA, USA, pp.5566-5571.

42. Do A.L., C. Spelta, S.M. Savaresi, O. Sename, L. Dugard, D. Delvecchio (2010). An LPV Control Approach for Comfort and Suspension Travel Improvements of Semi-Active Suspension Systems. 49th IEEE Conference on Decision and Control, Atlanta, GA, USA, pp.5560-5565.
43. Corno M., M. Massaro, R. Lot, S.M. Savaresi (2010). On Linear-Parameter-Varying Roll Angle Controller Design for Two-Wheeled Vehicles. Proceedings of Bicycle and Motorcycle Dynamics 2010 (Symposium on Dynamics and Control of Single Track Vehicles), Delft, The Netherlands, paper 1.4-3, pp.1-15.
44. Manzoni V., A. Corti, P. De Luca, S.M. Savaresi (2010). Driving Style Estimation via Inertial Measurements. 13th International IEEE Conference on Intelligent Transportation Systems (ITSC 2010), Madeira Island, Portugal, pp.777-782.
45. Spelta C., V. Manzoni, A. Corti, S.M. Savaresi (2010). A Driver-to-Infrastructure Interaction System for Motorcycles based on Smartphone. 13th International IEEE Conference on Intelligent Transportation Systems (ITSC 2010), Madeira Island, Portugal, pp.1442-1447.
46. Dardanelli A., S. Corbetta, I. Boniolo, S.M. Savaresi, S. Bittanti (2010). Model-Based Kalman Filtering Approaches for Frequency Tracking. Proceedings of 2010 IFAC Workshop on Adaptation and Learning in Control and Signal Processing (ALCOSP), Antalya, Turkey, Th3A.2, pp.1-6.
47. Do Anh Lam, O. Sename, L. Dugard, S.M. Savaresi, C. Spelta, D. Delvecchio (2010). An Extension of Mixed Sky-hook and ADD to Magneto-Rheological Dampers. 4th IFAC Symposium on System, Structure and Control, Ancona, WeAT1.3, pp.1-6.
48. Spelta C., D. Delvecchio, S.M. Savaresi, G. Bonaccorso, F. Ghirardo (2010). Analysis of a sensor reduction in a semi-active suspension system for a 4-wheels vehicle. 3rd ASME Annual Dynamic Systems and Control Conference of (DSCC), Cambridge, MA, DSCC2010-4101, pp.1-6.
49. Formentin S., G. Alli, S.M. Savaresi, F. Castelli Dezza (2010). Analysis and co-design of hardware architectures and control algorithms for an EPAC. 3rd ASME Annual Dynamic Systems and Control Conference of (DSCC), Cambridge, MA, , DSCC2010-4136, pp.1-6.
50. Spelta C., D. Delvecchio, S.M. Savaresi (2010). A comfort oriented control strategy for semi-active suspensions based on half car model. 3rd ASME Annual Dynamic Systems and Control Conference of (DSCC), Cambridge, MA, DSCC2010-4172, pp.1-6.
51. De Filippi P., M. Tanelli, M. Corno, S.M. Savaresi (2010). Towards electronic stability control for two-wheeled vehicles: a preliminary study. 3rd ASME Annual Dynamic Systems and Control Conference of (DSCC), Cambridge, MA, paper DSCC2010-4074, pp.1-6.
52. Belloli D., F. Previdi, S.M. Savaresi, A. Cologni, M. Zappella (2010). Modeling and Identification of an Electro-Hydrostatic Actuator. 5th IFAC Symposium on Mechatronic Systems, Cambridge, MA, pp.620-625
53. Corbetta S., I. Boniolo, S.M. Savaresi (2010). Attitude estimation of a motorcycle via Unscented Kalman Filter. 5th IFAC Symposium on Mechatronic Systems, Cambridge, MA, pp.511-516.
54. Previdi F., D. Belloli, A. Cologni, S.M. Savaresi (2010). Virtual Reference Feedback Tuning (VRFT) design of cascade control systems with application to an electro-hydrostatic actuator. 5th IFAC Symposium on Mechatronic Systems, Cambridge, MA, pp.626-632.
55. Dardanelli A., G. Alli, S.M. Savaresi (2010). Modeling and control of an electro-mechanical brake-by-wire actuator for a sport motorbike. 5th IFAC Symposium on Mechatronic Systems, Cambridge, MA, pp.524-531.
56. Alli G., S. Formentin, S.M. Savaresi (2010). On the suitability of EPACs in urban use. 5th IFAC Symposium on Mechatronic Systems, Cambridge, MA, 277-284.
57. Formentin S., P. De Filippi, S.M. Savaresi (2010). Optimal design of experiment for the identification of throttle-to-slip dynamics in two-wheeled vehicles. 2010 IEEE Multi-conference on Systems and Control (International Conference on Control Applications - CCA), Yokohama, Japan, pp.142-147.
58. De Filippi P., M. Tanelli, M. Corno, S.M. Savaresi, L. Fabbri (2010). Design of steering angle observers for the active control of two-wheeled vehicles. 2010 IEEE Multi-conference on Systems and Control (International Conference on Control Applications - CCA), Yokohama, Japan, pp.155-160.
59. Formentin S., P. De Filippi, M. Tanelli, S.M. Savaresi (2010). Model-free control for active braking systems in sport motorcycles. 8th IFAC Symposium on Nonlinear Control Systems (NOLCOS 2010), Bologna, Italy, pp.873-878.

60. De Filippi P., M. Tanelli, M. Corno, S.M. Savaresi, L. Fabbri (2010). Design of semi-active steering damper control strategies for sport motorcycles. 6th IFAC Symposium Advances in Automotive Control (AAC 2010), Munich, Germany, session WA2.3, pp.1-6.
61. Boniolo I., S.M. Savaresi (2010). Motorcycle lean angle estimation with frequency separation principle and angular rates measurements. 6th IFAC Symposium Advances in Automotive Control (AAC 2010), Munich, Germany, session WB2.1, pp.1-6.
62. Boniolo I., S. Corbetta, S.M. Savaresi (2010). Attitude estimation of a motorcycle in a Kalman filtering framework. 6th IFAC Symposium Advances in Automotive Control (AAC 2010), Munich, Germany, session WB2.2, pp.1-6.
63. Previdi F., F. Fico, S.M. Savaresi, D. Belloli, C. Spelta, I. Pesenti (2010). Virtual Reference Feedback Tuning (VRFT) of velocity controller in self-balancing industrial manual manipulators. American Control Conference (ACC 2010), Baltimore, USA, pp.1956-1961.
64. Panzani G., M. Tanelli, S.M. Savaresi, C. Pirola, G. Gavina, F. Taroni (2010). Transmission Control for Power-shift Agricultural Tractors: Design and End-of-line Automatic Tuning. American Control Conference (ACC 2010), Baltimore, USA, 2188-2193.
65. Spelta C., F. Previdi, S.M. Savaresi, P. Bolzern, M. Cutini, C. Bisaglia (2010). A novel Control strategy for Semi-Active suspensions with variable damping and stiffness. American Control Conference (ACC 2010), Baltimore, USA, pp.4582-4587.
66. Spelta C., S.M. Savaresi, D. Delvecchio, J. Funke (2010). Dynamic Analysis and Characterization of an ER-Suspension Damper for a Sport Motorcycle. Proceedings the 12th International Conference on New Actuators (ISBN 978-3-933339-13-3), Bremen, Germany. pp 560-565.

-----2009-----

67. Corno M., M. Tanelli, I. Boniolo, S.M. Savaresi (2009). Advanced Yaw Control of Four-wheeled Vehicles via Rear Active Differential Braking. 48th IEEE Conference on Decision and Control (CDC), Shanghai, P.R. China, pp.5176-5181.
68. Spelta C., D. Delvecchio, R. Cantoni, R. Lazzari, S.M. Savaresi (2009). Analysis and Design of Handling-Oriented Control Strategies for Semi-Active Suspensions. 48th IEEE Conference on Decision and Control (CDC), Shanghai, P.R. China, pp. 7633-7638.
69. Codecà F., V. Manzoni, S.M. Savaresi (2009). The mix estimation algorithm for State-of-Charge estimator - Analysis of the sensitivity to measurement errors. 48th IEEE Conference on Decision and Control (CDC), Shanghai, P.R. China, pp.8083-8088.
70. Panzani G., M. Corno, M. Tanelli, A.Zappavigna, S.M. Savaresi, A. Fortina, S. Campo (2009). Combined performance and stability optimisation via central transfer case active control in four-wheeled vehicles. 48th IEEE Conference on Decision and Control (CDC), Shanghai, P.R. China, pp.3551-3556.
71. Panzani G., M. Corno, M. Tanelli, S.M. Savaresi, A. Fortina, S. Campo (2009). Control-oriented vehicle attitude estimation with online sensors bias compensation. 2nd ASME Annual Dynamic Systems and Control Conference (DSCC'09), Hollywood, CA, USA, paper n.2531, pp.1-8.
72. Corno M., G. Panzani, G. Maggio, P. Mazzocchi, A. Goggi, S.M. Savaresi (2009). Nonlinear modeling and control of a dual-stage hybrid ride-by-wire throttle body for a sport motorbike. 2nd ASME Annual Dynamic Systems and Control Conference (DSCC'09), Hollywood, CA, USA, paper n.2534, pp.1-7.
73. Boniolo I., G. Panzani, S.M. Savaresi, A. Scamozzi, L. Testa (2009). On the roll angle estimate via inertial sensors: analysis of the principal measurement axes. 2nd ASME Annual Dynamic Systems and Control Conference (DSCC'09), Hollywood, CA, USA, paper n.2562, pp.1-8.
74. Codecà F., S.M. Savaresi, V. Manzoni (2009). The mix estimation algorithm for state-of-charge estimator - analysis of the sensitivity to model errors. 2nd ASME Annual Dynamic Systems and Control Conference (DSCC'09), Hollywood, CA, USA, paper n.2563, pp.1-8.
75. Delvecchio D., S.M. Savaresi, C. Spelta, S. Dozio, L. Mandrioli, C. Cantoni (2009). A control system for hill start assistance for commercial vehicles. 2nd ASME Annual Dynamic Systems and Control Conference (DSCC'09), Hollywood, CA, USA, paper n.2728, pp.1-8.
76. Manzoni V., F. Codecà, A. Moia, S.M. Savaresi (2009). Integration of electric pedal assisted bikes in a bike-sharing system. 12th IFAC Symposium on Control in Transportation Systems, Redondo Beach, CA, USA, pp.174-181.

77. Manzoni V., F. Codecà, S.M. Savaresi, P. Cravini (2009). The implementation of the Safespot architecture on a Powered Two-Wheeler vehicle. 12th IFAC Symposium on Control in Transportation Systems, Redondo Beach, CA, USA, pp.450-455.
 78. Tognetti S., S.M. Savaresi, C. Spelta, M. Restelli (2009). Batch Reinforcement Learning for Semi-Active Suspension Control. International Conference on Control Applications (CCA) (within the 2009 IEEE Multi-conference on Systems and Control), Saint Petersburg, Russia, pp.582-587.
 79. Spelta C., S.M. Savaresi, F. Previdi, F. Galli, S. Tremolada (2009). Modeling and Identification of Vertical Dynamics of an Agricultural Machine. International Conference on Control Applications (CCA) (within the 2009 IEEE Multi-conference on Systems and Control), Saint Petersburg, Russia, pp.101-106.
 80. Spelta C., F. Previdi, D. Belloli, M. Madaschi, E. Silani, F. D'Adamo, F. Faginoli, S.M. Savaresi (2009). Active Vibration Control of a Kitchen Hood via Piezoelectric Patch. International Conference on Control Applications (CCA) (within the 2009 IEEE Multi-conference on Systems and Control), Saint Petersburg, Russia, pp.812-817.
 81. Tognetti S., M. Restelli, S. M. Savaresi, C. Spelta (2009). Batch Reinforcement Learning: an application to a controllable semi-active suspension system. Proceedings of the 6th International Conference on Informatics in Control, Automation and Robotics (ICINCO), Milan, Italy, pp.228-233.
 82. Spelta C., M. Cutini, S.A. Bertinotti, S.M. Savaresi, F. Previdi, C. Bisaglia, P. Bolzern (2009). A New Concept of Semi-Active Suspension with Controllable Damper and Spring. European Control Conference, Budapest, Hungary, pp.4410-4415.
 83. Corno M., S.M. Savaresi (2009). Experimental Identification of Rear Wheel Slip Dynamics of a Motorbike. 15th IFAC Symposium on System Identification (SYSID 2009), Saint-Malo, France, pp.1229-1234.
 84. Boniolo I., S.M. Savaresi, M. Prandini, G. Borghi, B. Garavelli, S. Bittanti (2009). Performance analysis of a digital compass for the heading estimation in nautical application. 15th IFAC Symposium on System Identification (SYSID 2009), Saint-Malo, France, pp.1399-1404.
 85. Tanelli M., M. Corno, P. De Filippi, S. Rossi, S.M. Savaresi, L. Fabbri (2009). Control-oriented steering dynamics analysis in sport motorcycles: modeling, identification and experiments. 15th IFAC Symposium on System Identification (SYSID 2009), Saint-Malo, France, pp.468-473.
 86. Vecchio C., M. Tanelli, M. Corno, A. Ferrara, S.M. Savaresi (2009). Second Order Sliding Mode for Traction Control in Ride-by-Wire Sport Motorcycles. Proceedings of the 2009 American Control Conference (ACC 2009), St. Louis, Missouri, USA, pp.3344-3349.
- 2008-----
87. Tanelli M., Gragnani A., Astolfi A., Savaresi S.M. (2008). Optimising the braking performance via nonlinear analysis and bifurcation theory. Proceedings of the 47th IEEE Conference on Decision and Control (CDC), Cancun, Mexico, pp.4396-4401.
 88. Corno M., Savaresi S.M., G.J. Balas (2008). Linear, Parameter-Varying Wheel Slip Control for Two-Wheeled Vehicles. Proceedings of the 47th IEEE Conference on Decision and Control (CDC), Cancun, Mexico, pp.5030-5035.
 89. Tanelli M., Prandini M., Codecà F., Moia A., Savaresi S.M. (2008). Analysing the interaction between braking control and speed estimation: the case of two-wheeled vehicles. Proceedings of the 47th IEEE Conference on Decision and Control (CDC), Cancun, Mexico, pp.5372-5377.
 90. Boniolo I., M. Tanelli, S.M. Savaresi (2008). Roll Angle Estimation in Two-Wheeled Vehicles. 17th IEEE International Conference on Control Applications (part of 2008 IEEE Multi-conference on Systems and Control), San Antonio, TX, pp.31-36.
 91. Tanelli M., L. Piroddi, M. Piuri, S.M. Savaresi (2008). Real-time identification of tire-road friction conditions. 17th IEEE International Conference on Control Applications (part of 2008 IEEE Multi-conference on Systems and Control), San Antonio, TX, pp.25-30.
 92. Spelta C., F. Codecà, S.M. Savaresi, M. Montiglio, M. Ieluzzi (2008). Identification of an electro-hydraulic controllable shock absorber using black-block non-linear models. 17th IEEE International Conference on Control Applications (part of 2008 IEEE Multi-conference on Systems and Control), San Antonio, TX, pp.462-467.
 93. Previdi F., S.M. Savaresi, P. Guazzoni, L. Zetta (2008). Classification of Light Charged Particles in a Nuclear Physics Experiment. 17th IEEE International Conference on Control Applications (part of 2008 IEEE Multi-conference on Systems and Control), San Antonio, TX, pp.1177-1182.

94. Codecà F., S.M. Savaresi, G. Rizzoni (2008). On battery State of Charge estimation: a new mixed algorithm. 17th IEEE International Conference on Control Applications (part of 2008 IEEE Multi-conference on Systems and Control), San Antonio, TX, pp.102-107.
95. Corno M., M. Tanelli, S.M. Savaresi, L. Fabbri, L. Nardo (2008). Electronic throttle control for ride-by-wire in sport motorcycles. 17th IEEE International Conference on Control Applications (part of 2008 IEEE Multi-conference on Systems and Control), San Antonio, TX, pp.233-238.
96. Boniolo I., M. Norgia, M. Tanelli, C. Svelto, S.M. Savaresi (2008). Performance analysis of an optical distance sensor for roll angle estimation in sport motorcycles. 17th IFAC World Congress, Seoul, Korea, 135-140.
97. Tanelli M., S.M. Savaresi, V. Manzoni, F. Monizza, F. Taroni, A. Mangili (2008). Estimating the maneuver quality of an automatic motion inverter for end-of-line tuning in agricultural tractors. 17th IFAC World Congress, Seoul, Korea, pp.10726-10731.
98. Corno M., S.M. Savaresi, R. Scattolini, E. Comignaghi, M. Sofia, A. Palma, E. Sepe (2008). Modelling, Parameter Identification and Dynamics Analysis of a Common Rail Injection System for Gasoline Engines. 17th IFAC World Congress, Seoul, Korea, pp.8481-8486.
99. Spelta C., S.M. Savaresi, A. Moneta, F. Tosi, L. Fabbri, L. Nardo (2008). Semi-Active Control Strategies for High-Performance Motorcycles. 17th IFAC World Congress, Seoul, Korea, pp.4689-4694.
100. Corno M., F. Casella, S.M. Savaresi, R. Scattolini (2008). Object Oriented Modeling of a Gasoline Direct Injection System. 6th International Modelica Conference, Bielefeld, Germany, pp.83-91.
101. Spelta C., S.M. Savaresi, G. Fraternali, N. Gaudio (2008). Vibration Reduction in a Washing Machine via Damping Control. 17th IFAC World Congress, Seoul, Korea, pp.11835-11840.
102. Norgia M., C. Svelto, I. Boniolo, M. Tanelli, S.M. Savaresi (2008). Characterization of Optical Sensors for Real-Time Measurement of Motorcycle Tilt Angles. IEEE Instrumentation and Measurement Technology Conference (I2MTC 2008), Victoria, Vancouver Island, Canada, pp. 2070-2073.

-----2007-----

103. Tanelli M., G. Osorio, M. di Bernardo, S.M. Savaresi, A. Astolfi (2007). Limit Cycles Analysis in Hybrid Anti-lock Braking Systems. 46th IEEE Conference on Decision and Control, New Orleans, LA, USA, pp.3865-3870.
104. Savaresi S.M., C. Spelta, E. Silani, C. Bisaglia, M. Cutini, F. Taroni, L. Tascedda, F. Previdi (2007). Test-rig analysis of a cabin suspension in an agricultural tractor. International Conference on Advances in Labour and Machinery Management for a Profitable Agriculture and Forestry, Nitra, Slovakia, pp.578-583.
105. Spelta C., S.M. Savaresi, F. Taroni, L. Tascedda (2007). The use of magnetorheological suspension in an agricultural vehicle. 2nd IFAC International Conference on Modeling and Design Control Systems in Agriculture (AGRICONTROL 2007), Osijek, Croatia, pp.115-120.
106. Codecà F., S.M. Savaresi, C. Spelta, M. Montiglio, M. Ieluzzi (2007). Semiactive Control of a Secondary Train Suspension. IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM2007), Zurich, Switzerland, paper n.173, pp.1-6.
107. Savaresi S.M., C. Spelta (2007). Mix-1-Sensor: a Control Strategy for Semi-Active Suspension. 5th IFAC Symposium on Advances in Automotive Control, Aptos, CA, USA, pp.383-390.
108. Tanelli M., S.M. Savaresi, A. Mergenthaler (2007). Dynamic coupling analysis between front and rear axle for abs systems design. 5th IFAC Symposium on Advances in Automotive Control, Aptos, CA, USA, pp.391-398.
109. Tanelli M., R. Sartori, S.M. Savaresi (2007). Sliding mode slip-deceleration control for brake-by-wire control systems. 5th IFAC Symposium on Advances in Automotive Control, Aptos, CA, USA, pp.135-142.
110. Corno M., M. Tanelli, S.M. Savaresi (2007). High Performance Braking for Racing Motorcycles. European Control Conference (ECC'07), Kos, Greece, pp.5225-5232..
111. Previdi F., Maurizio Ferrarin, Ilaria Carpinella, Sergio M. Savaresi (2007). Modelling and control of a device for rehabilitation of paraplegic patients. American Control Conference (2007 ACC), New York, USA, pp.2030-2035.
112. Tanelli M., Fabio Codecà, Sergio M. Savaresi, Francesco Taroni, F. Previdi (2007). On transmission-ratio computation for the control of a continuously variable transmission in agricultural tractors. American Control Conference (2007 ACC), New York, USA, pp.5730-5735.

-----2006-----

113. Tanelli M., A. Astolfi, S.M. Savaresi (2006). Robust Nonlinear Proportional-Integral Control for Active Braking Control Systems. 45th IEEE Conference on Decision and Control, San Diego, CA, USA, pp.1745-1750.
114. Donida F., G. Ferretti, S.M. Savaresi, F. Schiavo, M. Tanelli (2006). A motorcycle dynamics library in Modelica. 5th International Modelica Conference, Vienna, Austria, pp.157-166.
115. Tanelli M., S.M. Savaresi (2006). Friction-curve peak detection by wheel-deceleration measurements. 9th International IEEE Conference on Intelligent Transportation Systems (ITSC 2006), Toronto, Canada, pp.1592-1597.
116. Savaresi S.M., C. Spelta (2006). Improving the performance of semi-active suspension at the damping invariant point. 9th International IEEE Conference on Intelligent Transportation Systems (ITSC 2006), Toronto, Canada, pp.1394-1399.
117. Tanelli M., S.M. Savaresi, M. Pioltelli, M. Bianchessi, D. Sirtori, S. Bittanti (2006). Performance Evaluation and Dynamic Analysis of Mems Accelerometers for High Precision Pointing Devices. 4th IFAC Symposium on Mechatronic Systems, Heidelberg, Germany, pp.974-979.
118. Savaresi S.M., D. Ciotti, M. Sofia, E. Rosignoli, E. Bina (2006). Gear-set optimization of a race car. 11th IFAC-symposium on Control in Transportation Systems, Delft, The Netherlands, pp.579-584.
119. Tanelli M., F. Schiavo, S.M. Savaresi, G. Ferretti (2006). Object-Oriented Multibody Motorcycle Modelling for Control Systems Prototyping. IEEE Conference on Computer Aided Control Systems Design (CACSD), Munich, Germany, pp.2695-2700.
120. Tanelli M., A. Astolfi, S.M. Savaresi (2006). Non-local Extremum Seeking Control for Active Braking Control Systems. IEEE Conference on Control Applications (CCA), Munich, Germany, pp.891-896.
121. Tanelli M., S.M. Savaresi, C. Cantoni (2006). Longitudinal Vehicle Speed Estimation for Traction and Braking Control Systems. IEEE Conference on Control Applications (CCA), Munich, Germany, pp.2790-2795.
122. Savaresi S.M. (2006). The role of real-time communication for distributed or centralized architectures in vehicle dynamics control systems. 6th IEEE International Workshop on Factory Communication Systems (WFCS 2006), Torino, Italy (plenary presentation), pp.1-6.
123. Previdi F., S.M. Savaresi, P. Guazzoni, L. Zetta (2006). Light Charged Particles Classification using Subspace Identification Methods and Neural Networks. American Control Conference (ACC 2006), Minneapolis, MI, pp.3080-3085.
124. Previdi F., S.M. Savaresi, C. Volpi (2006). A Numerical Model of the Weft Yarn Filling Insertion Process in Rapier Looms. American Control Conference (ACC 2006), Minneapolis, MI, pp.376-381.
125. Savaresi S.M., M. Tanelli, P. Langthaler, L. Del Re (2006). Identification of tire-road contact forces by "in-tire" accelerometers. 14th IFAC Symposium on System Identification (SYSID-2006), Newcastle, Australia.
126. Ferretti G., S.M. Savaresi, F. Schiavo, M. Tanelli (2006). Modelling and simulation of motorcycle dynamics for active control system prototyping. 5th International IMCAS Symposium on Mathematical Modelling (MATHMOD 2006), Wien, Austria, pp.2.1-2.9, session "Object Oriented Modelling in Mechatronics".
127. Guazzoni P., F. Previdi, S. Russo, M. Sassi, S.M. Savaresi, L. Zetta (2006). Pulse Shape Analysis Using Subspace Identification Methods and Particle Identification Using Neural Networks in CsI(Tl) Scintillators. Proceedings of the IEEE Nuclear Science Symposium, Puerto Rico (USA), pp. 1341-1345.

-----2005-----

128. Campi M., S.M. Savaresi (2005). Virtual Reference Feedback Tuning for non-linear systems. Joint 44th IEEE Conference on Decision and Control and European Control Conference (CDC-ECC'05), Seville, Spain, pp.6608-6613.
129. Previdi F., S.M. Savaresi, A. Panarotto (2005). Flow control problems in a single-screw polymer extruder. Proceedings of the 4th International Symposium on Automatic Control, Wismar (Germany), Session Control Theory, paper n.5, pp. 1-4.
130. Savaresi S.M., M. Tanelli, S. Bittanti, A. Mangili, F. Taroni, F. Previdi (2005). Control of Power-Shuttle motion-inverter. American Control Conference, Portland, OR, pp.1010-1015.

131. Savaresi S. M., M. Tanelli, C. Cantoni, D. Charalambakis, F. Previdi, S. Bittanti (2005). Slip-deceleration control in anti-lock braking systems. Proceedings of the 16th IFAC World Congress, Prague (CZ), paper Tu-A07-TO/6, pp. 1-6.
132. Previdi F., M. Ferrarin, S. M. Savaresi, S. Bittanti (2005). PID control design for rehabilitation by quasi-isometric training in paraplegia: a simulation study. Proceedings of the 16th IFAC World Congress, Prague (CZ), paper Th-A19-TO/6, pp.1-6.
133. Previdi F., S. M. Savaresi, A. Panarotto (2005). Design of a feedback control system for real-time control of flow in a single-screw extruder. Proceedings of the 16th IFAC World Congress, Prague (CZ), paper We-M06-TO/5, pp. 1-6.

-----2004-----

134. Bittanti S., S.M. Savaresi, M. Montiglio (2004). Neural-Network model of a magneto-rheological damper. 2nd IFAC Workshop on Advanced Fuzzy/Neural Control (AFNC'04), Oulu, Finland, pp.45-60.
135. Bittanti S., M. Ferrarin, F. Previdi, S.M. Savaresi (2004). Closed loop control of a FSE supported standing up and sitting down using virtual reference feedback tuning: a simulation study. 5th IFAC Symposium on Modelling and Control in Biomedical Systems, Melbourne, Australia, pp.393-398.
136. Savaresi S.M., S. Bittanti, M. Montiglio (2004). Non-linear models of Magneto-Rheological Dampers for Semi-Active Control of Vehicle Dynamics. 6th IFAC symposium on Nonlinear Control Systems (NOLCOS 2004), Stuttgart, Germany, vol.3, pp.1085-1090.
137. Savaresi S.M., E. Silani, M. Montiglio, A. Stefanini, F. Previdi (2004). A Comparative Analysis of High-Accuracy Black-Box and Grey-Box Models of MR-Dampers for Vehicles Control. 2004 SAE Automotive Dynamics & Stability Conference, Detroit, MI, pp. 99-107 (ISBN: 0-7680-1477-8).
138. S.M. Savaresi, E. Silani (2004). On the optimal predictive control algorithm for comfort-oriented semi-active suspensions. 2004 SAE Automotive Dynamics & Stability Conference, Detroit, MI, pp. 183-190 (ISBN: 0-7680-1477-8).
139. Zanero S., S.M. Savaresi (2004). Unsupervised learning techniques for an intrusion detection system. ACM Symposium on Applied Computing (SAC 2004), Nicosia, Cyprus, pp.412-419.
140. Savaresi S.M., E. Silani, S. Bittanti (2004). Semi-active suspensions: an optimal control strategy for a quarter-car model. 1st IFAC Symposium on Advances in Automotive Control, Salerno, Italy, pp.572-577.

-----2003-----

141. Savaresi S.M., E. Silani, S. Bittanti, N. Porciani (2003). On Performance Evaluation Methods and Control Strategies for Semi-Active Suspension Systems. 42nd Control and Decision Conference, Maui, Hawaii, USA, pp.2264-2269.
142. Savaresi S.M., F. Taroni, F. Previdi, S. Bittanti (2003). Controllers tuning in a power-split continuously variable transmission. 7th European Control Conference, Cambridge, UK, paper n.102, pp.1-6.
143. Silani E., S.M. Savaresi, S. Bittanti, A. Visconti, F. Farachi (2003). A Subspace-Based Identification Approach for the Analysis of Road Vehicles Yaw Dynamics Around Steering-Pad Conditions. 13th IFAC Symposium on System Identification (SYSID-2003), Rotterdam, The Netherlands, pp.277-282.
144. Savaresi S.M., Bittanti S., So H.C. (2003). Closed-form Frequency Estimation Using Second-Order Notch Filters. 13th IFAC Symposium on System Identification (SYSID-2003), Rotterdam, The Netherlands, pp.1143-1148.
145. Savaresi S.M., Garatti S., Bittanti S., La Brocca L. (2003). Modeling the Relationships Between the Users DB and the Web-Log File of a Large Virtual Community. 13th IFAC Symposium on System Identification (SYSID-2003), Rotterdam, The Netherlands, pp.219-224.
146. Savaresi S.M., Garatti S., Bittanti S. La Brocca L. (2003). Data-Mining of a Large Virtual Community: Relationships Between the Users DB and the Web-Log File. 3rd SIAM Conference on Data Mining, S. Francisco, CA, USA, pp.299-303.
147. Pisu P., Silani E., Rizzoni G., Savaresi S.M. (2003). A LMI-based supervisory robust control for hybrid vehicles. American Control Conference 2003, Denver, CO, pp.4681-4686..
148. Previdi F., Schauer T., Savaresi S.M (2003). Closed Loop Control of FES Supported Standing Up and Sitting Down Using Virtual Reference Feedback Tuning: a simulation study. 5th IFAC Symposium on Modelling and Control in Biomedical Systems, Melbourne, Australia, pp.393-398.

149. Savaresi S.M., Previdi F., Dester A., Bittanti S., Ruggeri A. (2003). Analysis of Pitch and Heave Dynamics in a ROV. 1st IFAC Conference on Guidance and Control of Underwater Vehicles (GCUV'03), Newport, South Wales, UK, pp.191-196.

-----2002-----

150. Silani E., S.M. Savaresi, S. Bittanti, A. Visconti, F. Farachi (2002). A vehicle model for the design of performance-oriented yaw-control systems. 15th IFAC world congress 1999, Barcelona, Spain, paper n.3028, pp.1-6.
151. Previdi F., Schauer T., Savaresi S.M (2002). Application of Virtual Reference Direct Control Design in Rehabilitation Engineering. 3rd International Wismar Symposium on Automation, Wismar, Germany, paper n.1.2-4, pp.1-6.
152. Savaresi Sergio M., Daniel L. Boley, Sergio Bittanti, Giovanna Gazzaniga (2002). Cluster selection in divisive clustering algorithms. 2nd SIAM International Conference on Data Mining, Arlington, Virginia, April 11-13, pp.299-314.
153. Silani E., S.M. Savaresi, S. Bittanti, A. Visconti, F. Farachi (2002). The concept of performance-oriented yaw-control systems: vehicle model and analysis. 2002 SAE Automotive Dynamics & Stability Conference, Detroit, MI, May 7-9, pp.235-245.

-----2001-----

154. Savaresi S.M., D.L. Boley (2001). On the performance of bisecting K-means and PDDP. 1st SIAM Conference on DATA MINING, Chicago, IL, USA, April 5-7, paper n.5, pp.1-14.
155. Savaresi S.M., D. Bertin, S. Bittanti (2001). On the Design of an IGV-Based Servo System for Air Cushion Vessels. IFAC Conference on Control Applications in Marine Systems (CAMS01), Glasgow, Scotland, UK, July 18-20, paper n.TB1.1, pp.1-6.
156. Lecchini A., M. Campi, S.M. Savaresi (2001). Virtual Reference Feedback Tuning: a New Framework for Data-Based Design of PID and Linear Controllers. 7th IFAC Workshop on Adaptation and Learning in Control and Signal Processing (ALCOSP2001), Cernobbio, Como, Italy, August 29-31, pp.83-88.
157. Valtolina E., S.M. Savaresi, S. Bittanti, A. Visconti, A. Longhi (2001). A Co-ordinate Approach for the Control of Road Vehicles. 6th European Control Conference, Porto, Portugal, September 4-7. pp.629-634.
158. Previdi F., T. Schauer, A. Lecchini, S.M. Savaresi, K.J. Hunt (2001). Virtual Reference Feedback Tuning for Knee Joint Position Control Using Functional Electrical Stimulation. 6th European Control Conference, Porto, Portugal, September 4-7. pp.3923-3928.
159. Lecchini A., M.C. Campi, S.M. Savaresi (2001). Virtual Reference Feedback Tuning for Two Degree of Freedom Controllers. 6th European Control Conference, Porto, Portugal, September 4-7. pp.2416-2421.
160. Lecchini A., M. Campi, S.M. Savaresi (2001). Sensitivity Shaping via Virtual Reference Feedback Tuning. 40th Control and Decision Conference, Orlando, FL, USA, December 4-7, pp.750-755.
161. Guardabassi G.O., S.M. Savaresi (2001). The Virtual Input Approach to Direct Data-Based Control System Design: Some Simulation Studies. 40th Control and Decision Conference, Orlando, FL, USA, December 4-7, pp.1156-1161.
162. Bittanti S., F. Dell'Orto, A. Di Carlo, S.M. Savaresi (2001). Radial Tracking in High-Speed DVD Players. 40th Control and Decision Conference, Orlando, FL, USA, December 4-7, pp.4705-4710.

-----2000-----

163. Bittanti S., Savaresi S.M. (2000). Frequency Tracking via Extended Kalman Filter: Parameter Design. American Control Conference 2000, Chicago, IL, June 28-30, pp.2225-2229.
164. Savaresi S.M., R. Bitmead, W. Dunstan (2000). Nonlinear system identification of a closed-loop lean combustion process. IFAC symposium on Systems Identification (SYSID 2000), Santa Barbara, CA, June 21-23, n.ThMD4-4.
165. Savaresi S.M., R. Bitmead, R. Peirce (2000). On modelling and control of a rotary sugar dryer. IFAC symposium on Systems Identification (SYSID 2000), Santa Barbara, CA, June 21-23, n.ThAM2-5..
166. Savaresi S.M., D. Bertin, S. Bittanti (2000). Non-linear design of an igv-fan servo system for surface effect ships. IFAC conference on Control in Transportation Systems (Transportation 2000), Braunschweig, Germany, June 13-15, pp.626-631.
167. Bertin D., S. Bittanti, S. Meroni, S.M. Savaresi (2000). Dynamic positioning of a "single-thruster" vessel by feedback linearization. 5th IFAC Conference on Manoeuvring and Control of Marine Craft (MCMC 2000), Aalborg, Denmark, August 23-25, pp.281-286.

168. Dunstan W.J, R.R. Bitmead, S.M. Savaresi (2000). Validation Test for a Nonlinear Model Developed from Limit Cycle Data. 39th IEEE Conference on Decision and Control, Sydney, Australia, pp.1237-1242.
169. Campi M, A. Lecchini, S.M. Savaresi (2000). Virtual Reference Feedback Tuning (VRFT): a New Direct Approach to the Design of Feedback Controllers. 39th IEEE Conference on Decision and Control, Sydney, Australia, pp.623-629
- 1999-----
170. Savaresi S.M., Guardabassi G.O. (1999). A method for direct PID design using I/O data: the Virtual Model Direct Design Approach. 14th IFAC world congress 1999, Pechino, Cina, July 5-9, vol.F, pp.19-24.
171. Bittanti S., Savaresi S.M. (1999). Safe Estimate of Sinusoidal Signals for Control Applications. 38th IEEE Control and Decision Conference (CDC'99), Phoenix, AZ, December 7-10, pp.2827-2832.
- 1998-----
172. Bittanti S., Gatti E., Ripamonti G., Savaresi S.M. (1998). Enhancing Accuracy in Energy Measurements of Nuclear Spectroscopy Signals by Identification Techniques. Instrumentation and Measurement Technology Conference (IMTC'98), St. Paul, Minnesota, May 18-20, pp.661-665.
173. Savaresi S.M., Guardabassi G.O (1998) A Data-Based Direct Design Technique for Approximate I/O Decoupling of Discrete-Time Nonlinear Systems. 4th IFAC Symposium on Nonlinear Control Systems Design (NOLCOS'98), Enschede, The Netherlands, July 1-3, pp.257-262.
174. Campi M., Lecchini A., Pardo M., Savaresi S.M. (1998). Iterative Feedback Tuning: a Direct Approach. Symposium on Mathematical Theory of Networks and Systems (MTNS'98), Padova, Italy, July 6-10, pp.719-722.
175. Bittanti S., Campi M., Savaresi S.M. (1998). Notch Filters Versus Funnel Filters in Frequency Estimation. IFAC Workshop on Adaptive Systems in Control and Signal Processing (ACASP'98), Glasgow, UK, August 26-28, pp.413-418.
176. Savaresi S.M., Guardabassi G.O., Brasca C., Corsi S., Pozzi M. (1998). Approximate Linearization of a Synchronous Generator by Static Output Feedback: a Data-Based Direct Design Approach. IEEE-ASME Conference on Control Applications (CCA'98), Trieste, Italia, Settembre 1-4, pp.1011-1015.
177. Bertin D., Bittanti S., Savaresi S. (1998). The Decoupled Cushion Control in Ride Control Systems for Air Cushion Catamarans. IFAC Conference on Control Applications in Marine Systems (CAMS'98), Fukuoka, Japan, October 27-30, pp.229-234.
- 1997-----
178. Bertin D., Bittanti S., Savaresi S. (1997). Coordinated Control of IGV and Valve in a Ride Control System for S.E.S.. International Conference on High Speed Marine Vehicles (HSMV'97), Naples, March 18-21, pp.8.3-8.14.
179. Händel P., Tichavsky P., Savaresi S.M. (1997). Performance analysis of a constrained High Order Adaptive Notch Filter. IEEE Finnish Signal Processing Symposium (FINSIG'97), Tampere, Finland, May 22, pp.21-24.
180. Guardabassi, G.O., Savaresi S.M. (1997). "Data-Based Simultaneous Design of Composite Feedback-Feedforward Controllers: a Virtual Input Direct Design Approach". 4th European Control Conference (ECC'97), Brussels, Belgium, July 1-4, paper n.111, We-A-F6.
181. Bittanti S., Gatti E., Ripamonti G., Savaresi S.M. (1997). An Application of Subspace-Based Techniques to Nuclear Spectroscopy. 11th IFAC Symposium on System Identification (SYSID'97), Fukuoka, Japan, July 8-11, pp.1695-1700.
182. Guardabassi G.O, Savaresi S.M. (1997). Identification of Single-Input Multi-Output Nicely-Nonlinear Models. 11th IFAC Symposium on System Identification (SYSID'97), Fukuoka, Japan, July 8-11, pp.697-702.
183. Savaresi S.M., Guardabassi G.O. (1997). The Invertibility Constraint for Nonlinear Parametric Functions. 11th IFAC Symposium on System Identification (SYSID'97), Fukuoka, Japan, July 8-11, pp.1237-1242.
184. Bertin D., Bittanti S., Savaresi S.M. (1997). Control of the wave induced vibrations in air cushion catamarans. IEEE-ASME Conference on Control Applications (CCA'97), Hartford, USA, October 5-7, pp.749-754.
185. Savaresi S.M., Guardabassi G.O., Brasca C., Corsi S., Pozzi M. (1997). Improving the Dynamics of a Synchronous Generator by Nonlinear Stabilizers: a Virtual Reference Direct Design

Approach. IEEE-ASME Conference on Control Applications (CCA'97), Hartford, USA, October 5-7, pp.571-576.

186. Savaresi S.M. (1997) Frequency Estimation of harmonic signals subject to step-wise variations using Notch Filters and Funnel Filters. 36th IEEE Control and Decision Conference, S. Diego, CA, December 10-12, pp.1694-1699.
187. Savaresi S.M., Guardabassi G.O (1997) Approximate feedback linearization of nonlinear systems: a data-based direct design approach. 36th IEEE Control and Decision Conference, S. Diego, CA, December 10-12, pp.18-23.

-----1996-----

188. Bittanti S., Brasca C., Corsi S., Guardabassi G., Pozzi M., Savaresi S.M. (1996). Approximate Linearization of a Nonlinear Plant: the case of a Synchronous Generator Working in Underexcitation Condition. 13th IFAC World Congress, San Francisco, USA, June 30 - July 5, vol.7d, pp.175-180.
189. Savaresi S.M., Wittenmark B. (1996). Robust Narrow-Band Disturbances Rejection Using Overparametrized Pole-Assignment Control. IEEE-IMACS Symposium on Computational Engineering in Systems Applications (CESA'96), Lille, France, July 9-12, pp.1125-1128.

-----1995-----

190. Bittanti S., Pavesi, G., Rugarli, M., Savaresi S.M. (1995). Compensating the Tracking-Error of a Mobile Robot by On-Line Tuning of a Neural-Network. IFAC Conference on Autonomous Vehicles (IAV'95), Helsinki, Finland, June 12-14, pp.291-296.
191. Bittanti S., Campi M., Savaresi S.M. (1995). Unbiased Estimation of a Sinusoid in Noise via Notch Filters. IFAC Conference on Adaptive Control and Signal Processing (ACASP'95), Budapest, Hungary, June 14-16, pp.165-170.