

MATTEO SCANDELLA

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PERSONAL INFORMATION

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CURRENT POSITION

Role Fixed term junior assistant professor (RTD-A)
Starting date February 2024
Research Group Control System and Automation Laboratory
Institution Department of Management, Information and Production Engineering, University of Bergamo, Italy

PREVIOUS POSITIONS

Role Research Associate (Equivalent to postdoc)
Time period July 2020 – January 2024
Research Group Control and Power Research Group
Institution Department of Electrical and Electronic Engineering, Imperial College London, UK, United Kingdom
Manager Prof. Thomas Parisini

Role Assegnista di ricerca (Equivalent to postdoc)
Time period October 2019 – December 2019
Research Group Control System and Automation Laboratory
Institution Department of Management, Information and Production Engineering, University of Bergamo, Italy
Manager Prof. Fabio Previdi

EDUCATION

Title Ph.D. in Engineering and Applied Sciences
Time period October 2016 – September 2019
Curriculum Control Systems

Research Group Control System and Automation Laboratory
Institution Department of Management, Information and Production Engineering, University of Bergamo, Italy
Advisor Prof. Fabio Previdi
Co-advisors Prof. Simone Formentin and Prof. Mirko Mazzoleni
Reviewers Prof. Dario Piga (SUPSI, Switzerland) and Prof. Giuseppe De Nicolao (University of Pavia, Italy)

Title **Master of Science in Computer Engineering**
Time period September 2014 – September 2016
Institution University of Bergamo, Italy
Thesis title Semi-supervised identification of N-FIR models (*written in Italian*)
Advisor Prof. Fabio Previdi
Co-advisors Prof. Simone Formentin and Prof. Mirko Mazzoleni
Grade 110/110 summa cum laude (The highest possible grade in the Italian system)

Title **Bachelor of Science in Computer Engineering**
Time period September 2011 – September 2014
Institution University of Bergamo, Italy
Thesis title Design and characterization of an electronic circuit for the emulation of a temperature sensor PT1000 (*written in Italian*)
Advisor Prof. Massimo Manghisoni
Grade 109/110

TEACHING ACTIVITIES

Position Main Lecturer
Name of the course Automatica
Academic year 2023/2024, 2024/2025, 2025/2026
Institution University of Bergamo, Italy
Language Italian
Course level Bachelor of Engineering
Class hours 32
Duties Organize the course, coordinate with the two assistant lecturers of the course, organize six examination sessions for the students, grade the students and provide the necessary support to the students.

Position Main Lecturer
Name of the course Analisi dei Dati
Academic years 2025/2026
Institution University of Bergamo, Italy

Language Italian

Course level Bachelor of Engineering

Class hours 32

Duties Organize the course, coordinate with the two assistant lecturers of the course, organize six examination sessions for the students, grade the students and provide the necessary support to the students.

Position Assistant Lecturer

Name of the course Systems Identification and Learning

Academic years 2020/2021, 2021/2022, 2022/2023, 2023/2024

Institution Imperial College London, UK

Language English

Main lecturer Prof. Thomas Parisini

Course level Master of Science

Duties Help the lecturer in its duties, organize exercises sections with the student, help preparing and marking the exams and provide the necessary support to the students.

Position Main Lecturer

Name of the course Laboratory Sustainable Industrial Systems

Academic year 2023/2024, 2024/2025

Institution University of Bergamo, Italy

Language Italian

Course level Bachelor of Engineering

Class hours 24

Duties Organize the course, coordinate with an assistant lecturer of the course, organize six examination sessions for the students, grade the students and provide the necessary support to the students.

Position Assistant Lecturer

Name of the course Control Systems

Academic years 2020/2021, 2021/2022, 2022/2023

Institution Imperial College London, UK

Language English

Main lecturer Prof. Thomas Parisini

Course level Bachelor of Engineering

Duties Help to organize the laboratory, supervision of the students during the laboratory, help the student during the problem class solve exercises.

Position Assistant Lecturer

Name of the course Identificazione Modelli e Analisi Dati

Academic year 2019/2020

Institution University of Bergamo, Italy
Language Italian
Main lecturer Prof. Mirko Mazzoleni
Course level Master of Science
Class hours 32
Duties Help the lecturer in its duties, organize exercises sections with the student and provide the necessary support to the students.

Position Main Lecturer
Name of the course Dynamic System Identification
Academic year 2018/2019
Institution University of Bergamo, Italy
Language English
Course level Master of Science
Class hours 48
Duties Organize the course, coordinate with the two assistant lecturers of the course, organize six examination sessions for the students, grade the students and provide the necessary support to the students.

VISITING APPOINTMENTS

Institution System and Control Department, Uppsala Universiteit
Time period August 2017 – November 2017, July 2018
Position Visiting Ph.D. student
Host Prof. Thomas B. Schön
Research project Development and implementation in Birch (<https://birch-lang.org>) of an automated inference algorithm for Random Markov Field based on SMC: Divide & Conquer.
Publications During this experience, I have published the article [C18]

PARTICIPATION TO SCIENTIFIC EVENTS

- **Conference on Decision and Control (CDC)**. Milan, Italy, 16-19 December 2024.
I have contributed in this conference with a publication [C2, C3] and with a talk based on the publication [C2].
- **Conferenza annuale della Società Italiana Docenti e Ricercatori in Automatica**. Bozen, Italy, 11-13 September 2024.
I have contributed with a talk titled “Nonlinear Data-Driven Moment Matching using RKHS” based on the publication [C5].
- **European Control Conference (ECC)**. Stockholm, Sweden, 25-28 June 2024.
I have contributed in this conference with a publication [C5] and with a talk based on the publication [C5].

- **Nonlinear System Identification Benchmarks Workshop.** Lugano, Switzerland, 24-24 April 2024. I have contributed with a talk titled “Incremental ISS stable model for the coupled electric drives”.
- **ERNSI Workshop.** Stockholm, Sweden, 24-27 September 2023. I have contributed with a talk titled “Kernel-Based Identification of Stable Nonlinear Systems”.
- **World Congress of the International Federation of Automatic Control.** Yokohama, Japan, 9-14 July 2023. I have contributed in this conference with a publication [C7] and with a talk based on the publication [C7].
- **Conferenza annuale della Società Italiana Docenti e Ricercatori in Automatica.** Cagliari, Italy, 1-3 September 2022. I have contributed with a talk titled “Traffic-light control in urban environment exploiting drivers’ reaction to the expected red lights duration” based on the publication [J5].
- **European Control Conference (ECC).** London, United Kingdom, 12-15 July 2022. I have contributed in this conference with a publication [C9] and with a talk based on the publication [C9].
- **IFAC Symposium on System Identification.** Stockholm, Sweden, 9-11 July 2018. I have contributed in this conference with two publications [C21, C22].
- **Nonlinear System Identification Benchmarks Workshop.** Liege, Belgium, 9-13 April 2018. I have contributed with a talk titled “Kernel manifold regression for the coupled electric drives dataset”.
- **First workshop on Probabilistic programming.** Uppsala, Sweden, 16-17 November 2017.

PARTICIPATION IN FUNDED RESEARCH PROJECTS

Project name KIOS Research and Innovation Centre of Excellence.

Time period July 2020 – In Progress

Project details DOI: [10.3030/739551](https://doi.org/10.3030/739551)

Total budget 15M€

Partners University of Cyprus and Imperial College London, UK

Funded by European Union - H2020

Publications I contributed to this project with the articles [C6, C7, J5, C9, C10]

Project name REPRIZE: Reliable Electromechanical actuator for Primary Surface with health monitoring.

Time period July 2016 – December 2019

Project details DOI: [10.3030/717112](https://doi.org/10.3030/717112)

Total budget 995k€

Partners Piaggio Aerospace S.p.A., UmbraGroup S.p.A, Zettlex l.t.d, University of Bergamo

Funded by European Union - H2020

Publications In the dissemination activities of this project, I have published several articles [C13, J10, C19, C21, C23]

M.SC. THESIS ADVISOR OR CO-ADVISOR

- **Modelling and Identification of Human Drivers in Highway Traffic**
M.Sc. program in Control Systems (AA 2021/2022), Imperial College London, UK, United Kingdom.
Student: **Yichen Li**.
- **Modelling and Identification of Human Drivers in Highway Traffic**
M.Sc. program in Control Systems (AA 2020/2021), Imperial College London, UK, United Kingdom.
Student: **Yingyu Lai**.
- **Posizionamento di Sensori mediante Algoritmi Genetici per la Localizzazione Robusta di Perdite in Reti Idriche (*written in Italian*)**
M.Sc. program in Computer Engineering (AA 2018/2019), University of Bergamo, Italy.
Student: **Enrico Capelli**.
- **Artificial intelligence algorithms for the analysis of water distribution network's users**
M.Sc. program in Computer Engineering (AA 2017/2018), University of Bergamo, Italy.
Student: **Mattia Peracchi**.
- **Sviluppo sperimentale di un metodo model-based di diagnosi dei guasti per attuatori elettromeccanici in ambito aerospaziale (*written in Italian*)**
M.Sc. program in Computer Engineering (AA 2017/2018), University of Bergamo, Italy.
Student: **Simone Giusso**.
- **Algoritmi di Health Monitoring per la manutenzione predittiva di attuatori elettromeccanici di aeromobili (*written in Italian*)**
M.Sc. program in Computer Engineering (AA 2017/2018), University of Bergamo, Italy.
Student: **Antonino Russo**.
- **Semi-supervised identification of NARX models (*written in Italian*)**
M.Sc. program in Computer Engineering (AA 2017/2018), University of Bergamo, Italy.
Student: **Giovanni Bergamelli**.

INDUSTRIAL COLLABORATIONS

- **Development of the temperature controller of a industrial jacketed chemical reactor.**
In collaboration with Flamma S.p.A. (Chignolo d'Isola - BG, Italy). 2025-2026.
- **Development of a leak-isolation algorithm for water supply networks.**
In collaboration with UniAcque S.p.A. (Bergamo - BG, Italy). 2018-2019.
- **Predictive maintenance system for blowing bottle machines.**
In collaboration with SmiGroup S.p.A. (San Giovanni Bianco - BG, Italy). 2018-2019.
- **Implementation and computational analysis of a CNC trajectory planning algorithm.**
In collaboration with DDX S.r.l. (Brembate Sopra - BG, Italy). 2018.
- **Support for the development of a smart metering system for water-supply-networks.**
In collaboration with SmiGroup S.p.A. (San Giovanni Bianco - BG, Italy). 2017.
- **Fault detection of stranded ropes via image processing techniques.**
In collaboration with Vinati S.r.l. (Nave - BS, Italy). 2017.

ATTENDED PH.D. LEVEL COURSES

- **Optimization Models and algorithms (15 class hours).**
University of Bergamo, July 2019. Prof. Maria Teresa Vespucci.
- **Model-Based Fault Diagnosis – a Linear Synthesis Framework using MATLAB (21 class hours).**
University of Padova, March 2019. Prof. Andreas Varga and Prof. Daniel Ossmann.
- **Non-linear system identification (22.5 class hours).**
Politecnico di Milano, January 2019. Prof. Luigi Piroddi, Prof. Simone Formentin, Prof. Simone Garatti, Prof. Lorenzo Fagiano and others.
- **Hands-On Mini-Course on nonlinear system identification (12 class hours).**
Liege University, April 2018. Prof. Johan Schoukens, Prof. Maartens Schoukens, Prof. Jean-Philippe Noël and others.
- **Statistical Signal Processing (32 class hours).**
Politecnico di Milano, February 2018. Prof. Umberto Spagnolini.
- **Reinforcement learning (16 class hours).**
Uppsala Universiteit, October 2017. Prof. Alexandre Proutiere.
- **Sequential Monte-Carlo methods (27 class hours).**
Uppsala Universiteit, August 2017. Prof. Thomas B. Schön, Prof. Fredrik Lindsten, Prof. Lawrence Murray and others.
- **Workshop on system identification (70 class hours).**
Vrije Universiteit Brussel, ELEC, June 2017. Prof. Rik Pintelon, Prof. John Lataire and others.
- **Data-Driven Control System Design (25 class hours).**
Politecnico di Milano, May 2017. Prof. Simone Formentin.
- **Numerical methods of Engineering (20 class hours, *in italian*).**
University of Bergamo, April 2017. Prof. Christian Vergara.
- **Advanced Mathematical Methods for Engineering (20 class hours, *in italian*).**
University of Bergamo, March 2017. Prof. Marco Pedroni.
- **Robot control: state of the art and research trends (20 class hours).**
University of Bergamo, November 2016. Prof. Andrea M. Zanchettin.
- **Introduction to scientific programming with Wolfram Mathematica (16 class hours, *in italian*).**
University of Bergamo, Nov 2016. Prof. Francesco Fassò.

PERSONAL SKILLS

Languages Italian (Mother tongue), English (C1).

Computer skills Matlab, C, C++, C#, Java, Visual Basic, LabView, Mathematica, Python, Julia, Simulink, \LaTeX , Arduino, Git, Birch

Licences Italian car driving license.

PUBLICATIONS ON INTERNATIONAL JOURNALS

- [J1] **Matteo Scandella**, Michelangelo Bin, and Thomas Parisini. *Kernel-Based Learning of Stable Nonlinear Systems*. Submitted to "IEEE Transactions on Automatic Control". 2025. DOI: [10.48550/arXiv.2409.10212](https://doi.org/10.48550/arXiv.2409.10212).
- [J2] Alessio Moreschini, **Matteo Scandella**, Alessandro Astolfi, and Thomas Parisini. "Moment Matching by Kernel-Based Learning". In: *IEEE Transactions on Automatic Control* (2025), pp. 1–16. DOI: [10.1109/TAC.2025.3618165](https://doi.org/10.1109/TAC.2025.3618165).
- [J3] **Matteo Scandella**, Davide Previtali, and Alessio Moreschini. "Are Artificial Neural Networks suitable for data-driven moment matching?" In: *European Journal of Control* 85 (2025), p. 101360. ISSN: 0947-3580. DOI: [10.1016/j.ejcon.2025.101360](https://doi.org/10.1016/j.ejcon.2025.101360).
- [J4] Pietro Boni, Mirko Mazzoleni, **Matteo Scandella**, and Fabio Previdi. "A graph learning approach for kernel-based system identification with manifold regularization". In: *Journal of the Franklin Institute* 362.12 (2025), p. 107793. ISSN: 0016-0032. DOI: [10.1016/j.jfranklin.2025.107793](https://doi.org/10.1016/j.jfranklin.2025.107793).
- [J5] **Matteo Scandella**, Arnob Ghosh, Michelangelo Bin, and Thomas Parisini. "Traffic-light control in urban environment exploiting drivers' reaction to the expected red lights duration". In: *Transportation Research Part C: Emerging Technologies* 145 (Dec. 2022), p. 103910. DOI: [10.1016/j.trc.2022.103910](https://doi.org/10.1016/j.trc.2022.103910).
- [J6] Mirko Mazzoleni, Alessandro Chiuso, **Matteo Scandella**, Simone Formentin, and Fabio Previdi. "Kernel-based system identification with manifold regularization: A Bayesian perspective". In: *Automatica* 142 (Aug. 2022), p. 110419. DOI: [10.1016/j.automatica.2022.110419](https://doi.org/10.1016/j.automatica.2022.110419).
- [J7] **Matteo Scandella**, Mirko Mazzoleni, Simone Formentin, and Fabio Previdi. "Kernel-based identification of asymptotically stable continuous-time linear dynamical systems". In: *International Journal of Control* 95.6 (July 2022), pp. 1668–1681. DOI: [10.1080/00207179.2020.1868580](https://doi.org/10.1080/00207179.2020.1868580).
- [J8] **Matteo Scandella**, Mirko Mazzoleni, Simone Formentin, and Fabio Previdi. "A Note on the Numerical Solutions of Kernel-Based Learning Problems". In: *IEEE Transactions on Automatic Control* 66.2 (Feb. 2021), pp. 940–947. DOI: [10.1109/TAC.2020.2989769](https://doi.org/10.1109/TAC.2020.2989769).
- [J9] Mirko Mazzoleni, **Matteo Scandella**, Fabio Previdi, and Giulio Pispola. "Data on the first endurance activity of a Brushless DC motor for aerospace applications". In: *Data in Brief* 29 (Apr. 2020), p. 105153. DOI: [10.1016/j.dib.2020.105153](https://doi.org/10.1016/j.dib.2020.105153).
- [J10] Mirko Mazzoleni, Fabio Previdi, **Matteo Scandella**, and Giulio Pispola. "Experimental Development of a Health Monitoring Method for Electro-Mechanical Actuators of Flight Control Primary Surfaces in More Electric Aircrafts". In: *IEEE Access* 7 (Oct. 2019), pp. 153618–153634. DOI: [10.1109/ACCESS.2019.2948781](https://doi.org/10.1109/ACCESS.2019.2948781).
- [J11] Simone Formentin, Mirko Mazzoleni, **Matteo Scandella**, and Fabio Previdi. "Nonlinear system identification via data augmentation". In: *Systems & Control Letters* 128 (June 2019), pp. 56–63. DOI: [10.1016/j.sysconle.2019.04.004](https://doi.org/10.1016/j.sysconle.2019.04.004).

PUBLICATIONS ON THE PROCEEDINGS OF INTERNATIONAL CONFERENCES

- [C1] F. Corrini, M. Mazzoleni, **M. Scandella**, F. Ferracuti, L. Cavanini, and F. Previdi. "A quadratic entropy algorithm for efficient online identification of LPV-ARX models using LS-SVM". In: *Proceedings of the 6th IFAC Workshop on Linear Parameter Varying Systems (LPVS)*. Vol. 59. 15. 2025, pp. 43–48. DOI: [10.1016/j.ifacol.2025.10.055](https://doi.org/10.1016/j.ifacol.2025.10.055).
- [C2] Alessio Moreschini, **Matteo Scandella**, and Thomas Parisini. "Non-Convex Learning with Guaranteed Convergence: Perspectives on Stochastic Optimal Control". In: *Proceedings of the IEEE Conference on Decision and Control (CDC)*. Dec. 2024, pp. 6002–6009. DOI: [10.1109/CDC56724.2024.10886026](https://doi.org/10.1109/CDC56724.2024.10886026).

- [C3] Guitao Yang, **Matteo Scandella**, Simone Formentin, and Thomas Parisini. “SelfMPC: Automated Data-Driven MPC Design for a Class of Nonlinear Systems”. In: *Proceedings of the IEEE Conference on Decision and Control (CDC)*. Dec. 2024, pp. 7484–7489. DOI: [10.1109/CDC56724.2024.10885792](https://doi.org/10.1109/CDC56724.2024.10885792).
- [C4] Davide Previtali, **Matteo Scandella**, Leandro Pitturelli, Mirko Mazzoleni, Antonio Ferramosca, and Fabio Previdi. “Continuous-time identification of grey-box and black-box models of an industrial oven”. In: *Proceedings of the IFAC Symposium on System Identification (SYSID)*. Vol. 58. 15. 2024, pp. 175–180. DOI: [10.1016/j.ifacol.2024.08.524](https://doi.org/10.1016/j.ifacol.2024.08.524).
- [C5] Alessio Moreschini, **Matteo Scandella**, and Thomas Parisini. “Nonlinear Data-Driven Moment Matching in Reproducing Kernel Hilbert Spaces”. In: *Proceedings of the European Control Conference (ECC)*. June 2024, pp. 3440–3445. DOI: [10.23919/ECC64448.2024.10590737](https://doi.org/10.23919/ECC64448.2024.10590737).
- [C6] **Matteo Scandella**, Alessio Moreschini, and Thomas Parisini. “Kernel-Based Continuous-Time System Identification: A Parametric Approximation”. In: *Proceedings of the IEEE Conference on Decision and Control (CDC)*. Dec. 2023, pp. 1492–1497. DOI: [10.1109/CDC49753.2023.10383442](https://doi.org/10.1109/CDC49753.2023.10383442).
- [C7] **Matteo Scandella**, Michelangelo Bin, and Thomas Parisini. “Kernel-Based Identification of Incrementally Input-to-State Stable Nonlinear Systems”. In: *Proceedings of the IFAC World Congress*. Vol. 56. 2. July 2023, pp. 5127–5132. DOI: [10.1016/j.ifacol.2023.10.1297](https://doi.org/10.1016/j.ifacol.2023.10.1297).
- [C8] Mirko Mazzoleni, Matteo Scandella, and **Fabio Previdi**. “Evaluation of robust sensors placement schemes for leaks isolation in water distribution networks”. In: *Proceeding of the IFAC Workshop on Control Methods for Water Resource Systems (CMWRS)*. Vol. 55. 33. Sept. 2022, pp. 48–53. DOI: [10.1016/j.ifacol.2022.11.008](https://doi.org/10.1016/j.ifacol.2022.11.008).
- [C9] **Matteo Scandella**, Michelangelo Bin, and Thomas Parisini. “Group-Based Dimensionality Reduction and Estimation for Heterogeneous Large-Scale Traffic Networks”. In: *Proceedings of the European Control Conference (ECC)*. July 2022, pp. 1937–1943. DOI: [10.23919/ECC55457.2022.9838159](https://doi.org/10.23919/ECC55457.2022.9838159).
- [C10] Arnob Ghosh, **Matteo Scandella**, Michelangelo Bin, and Thomas Parisini. “Traffic-Light Control at Urban Intersections Using Expected Waiting-Time Information”. In: *Proceedings of the IEEE Conference on Decision and Control (CDC)*. Dec. 2021, pp. 1953–1959. DOI: [10.1109/CDC45484.2021.9683623](https://doi.org/10.1109/CDC45484.2021.9683623).
- [C11] Mirko Mazzoleni, **Matteo Scandella**, Simone Formentin, and Fabio Previdi. “Nonparametric continuous-time identification of linear systems: theory, implementation and experimental results”. In: *Proceedings of the Modeling, Estimation and Control Conference (MECC)*. Vol. 54. 20. Oct. 2021, pp. 699–704. DOI: [10.1016/j.ifacol.2021.11.253](https://doi.org/10.1016/j.ifacol.2021.11.253).
- [C12] Mirko Mazzoleni, **Matteo Scandella**, and Fabio Previdi. “KBERG: A MatLab toolbox for nonlinear kernel-based regularization and system identification”. In: *Proceedings of the IFAC World Congress*. Vol. 53. 2. July 2020, pp. 1231–1236. DOI: [10.1016/j.ifacol.2020.12.1340](https://doi.org/10.1016/j.ifacol.2020.12.1340).
- [C13] Mirko Mazzoleni, **Matteo Scandella**, Luca Maurelli, and Fabio Previdi. “Mechatronics applications of condition monitoring using a statistical change detection method”. In: *Proceedings of the IFAC World Congress*. Vol. 53. 2. July 2020, pp. 92–97. DOI: [10.1016/j.ifacol.2020.12.100](https://doi.org/10.1016/j.ifacol.2020.12.100).
- [C14] Mirko Mazzoleni, **Matteo Scandella**, Simone Formentin, and Fabio Previdi. “Black-box continuous-time transfer function estimation with stability guarantees: a kernel-based approach”. In: *Proceedings of the Conference on Learning for Dynamics and Control (L4DC)*. Vol. 120. June 2020, pp. 267–276.
- [C15] Mirko Mazzoleni, **Matteo Scandella**, Simone Formentin, and Fabio Previdi. “Enhanced kernels for nonparametric identification of a class of nonlinear systems”. In: *Proceedings of the European Control Conference (ECC)*. May 2020, pp. 540–545. DOI: [10.23919/ECC51009.2020.9143785](https://doi.org/10.23919/ECC51009.2020.9143785).
- [C16] Mirko Mazzoleni, **Matteo Scandella**, and Fabio Previdi. “A comparison of manifold regularization approaches for kernel-based system identification”. In: *Proceedings of the IFAC Workshop on Adaptive and Learning Control Systems (ALCOS)*. Vol. 52. 29. Dec. 2019, pp. 180–185. DOI: [10.1016/j.ifacol.2019.12.641](https://doi.org/10.1016/j.ifacol.2019.12.641).

- [C17] Mirko Mazzoleni, **Matteo Scandella**, Simone Formentin, and Fabio Previdi. “Classification of Light Charged Particles Via Learning-Based System Identification”. In: *Proceedings of the IEEE Conference on Decision and Control (CDC)*. Dec. 2018, pp. 6053–6058. DOI: [10.1109/cdc.2018.8618946](https://doi.org/10.1109/cdc.2018.8618946).
- [C18] **Matteo Scandella**, Lawrence Murray, and Thomas Bo Schön. “Probabilistic programming allows for automated inference in factor graph models”. In: *International Conference on Probabilistic Programming*. Oct. 2018.
- [C19] Mirko Mazzoleni, **Matteo Scandella**, Yamuna Maccarana, Fabio Previdi, Giulio Pispola, and Nicola Porzi. “Condition Monitoring of Electro-Mechanical Actuators for Aerospace Using Batch Change Detection Algorithms”. In: *Proceedings of the IEEE Conference on Control Technology and Applications (CCTA)*. Aug. 2018, pp. 1747–1752. DOI: [10.1109/ccta.2018.8511334](https://doi.org/10.1109/ccta.2018.8511334).
- [C20] Mirko Mazzoleni, Simone Formentin, **Matteo Scandella**, and Fabio Previdi. “Semi-supervised learning of dynamical systems: a preliminary study”. In: *Proceedings of the European Control Conference (ECC)*. June 2018, pp. 2824–2829. DOI: [10.23919/ECC.2018.8550550](https://doi.org/10.23919/ECC.2018.8550550).
- [C21] Mirko Mazzoleni, **Matteo Scandella**, Yamuna Maccarana, Fabio Previdi, Giulio Pispola, and Nicola Porzi. “Condition assessment of electro-mechanical actuators for aerospace using relative density-ratio estimation”. In: *Proceedings of the IFAC Symposium on System Identification (SYSID)*. Vol. 51. 15. July 2018, pp. 957–962. DOI: [10.1016/j.ifacol.2018.09.070](https://doi.org/10.1016/j.ifacol.2018.09.070).
- [C22] Miko Mazzoleni, **Matteo Scandella**, Simone Formentin, and Fabio Previdi. “Identification of nonlinear dynamical system with synthetic data: a preliminary investigation”. In: *Proceedings of the IFAC Symposium on System Identification (SYSID)*. Vol. 51. 15. July 2018, pp. 622–627. DOI: [10.1016/j.ifacol.2018.09.227](https://doi.org/10.1016/j.ifacol.2018.09.227).
- [C23] Fabio Previdi, Yamuna Maccarana, Mirko Mazzoleni, **Matteo Scandella**, Giulio Pispola, and Nicola Porzi. “Development and Experimental Testing of a Health Monitoring System of Electro-Mechanical Actuators for Small Airplanes”. In: *Proceedings of the Mediterranean Conference on Control and Automation (MED)*. June 2018, pp. 673–678. DOI: [10.1109/MED.2018.8442734](https://doi.org/10.1109/MED.2018.8442734).

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