
CURRICULUM VITAE ET STUDIORUM

MARA TANELLI

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Brief bio-sketch

Since October 5, 2020 I am Full Professor of Automatic Control at the Politecnico di Milano, where I earned (summa cum laude) the Ph.D. in Information Engineering in 2007. I also hold a Laurea (M.Sc.) in Computer Engineering from the Politecnico di Milano and a Master of Science in Computer Science from the University of Illinois at Chicago, both earned in 2003.

My bibliometric data on Scopus are: **h-index=28 and number of citations=2724**. In 2018, I have been a **finalist of the ERC Starting Grant**, with a project on large-scaled shared mobility systems.

As it will become clear from the full CV, my research activity focuses on both basic and applied research, mainly within the **Automotive and Mobility** sector. In this area, I have become a leading expert in the control of longitudinal dynamics and my monograph on Braking Control Systems also has a Chinese edition. Within the Automotive field, I have also gained experience in **Mechatronic modelling and design**, combining actuators characteristics with control performance. More recently, I have been working in **Industrial Analytics**: in this area, I am combining control-oriented techniques with data-analytics in different industrial sectors, ranging from Smart Manufacturing to Aerospace. On the theoretical side, my main contributions are in the variable-structure control methods, mainly within a sliding-mode approach. My work has always *blended theoretical work and technological applications* of the resulting methods, which I also experimentally applied on projects funded by both public entities and private companies, many of which led also to patent applications. I am author of more than 200 peer-reviewed scientific publications and 25 industrial patents (most in co-application between the Politecnico di Milano and leading corporate partners, with which I collaborated on funded research projects). I am PI and co-PI of several research projects, both privately and publicly funded, and I have raised more than 1.500.000 EUR of research funding so far in my career.

I am deeply involved in the institutional life of my University, where I am Rector's Delegate for Diversity and Inclusion and, at department level, Director's Delegate for Organizational Innovation and KPIs. In December 2022 I was appointed Board member of Fondazione Politecnico di Milano. From 2020 to 2022, I have served as Students' Advocate (Ombudswoman) of the Politecnico di Milano. I am also involved in several conference organizing committees, and I serve as AE for IEEE Transactions on Human-Machine Systems and for the Conference Editorial Board of the IEEE Control Systems Society (CSS), of which I am Senior Member since 2012. From 2021 to 2023, I was *Chair of the IEEE CSS Technical Committee* on Automotive Control, and from 2021 up to now I am being Vice-Chair for publication of the twin IFAC Committee.

I am also a civically engaged citizen, and in the last years, also thanks to the support of the Politecnico di Milano, I managed to blend my civic values and my research activity starting a transdisciplinary research group, for which I am the research chair, working on "*Quantitative methods for Gender Equality, Diversity and Inclusion*". Personally, I have started working on **Diversity-Aware mobility and fair decision making**.

I am **mother of three children**, Matteo, Giorgio e Paola, born in 2010, 2012 and 2014, respectively.

CURRENT POSITION

- **October 5, 2020- Today**
Full Professor of Automatic Control
Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di Milano

PREVIOUS POSITIONS

- **April 13, 2015 - October 4, 2020**
Associate Professor of Automatic Control
Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di Milano
- **December 16, 2008-April 12, 2015**
Assistant Professor of Automatic Control
Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di Milano
- **April 1, 2008- December 15, 2008**
Research Assistant
Dipartimento di Ingegneria dell'Informazione e Metodi Matematici, Università degli studi di Bergamo
- **April 1, 2007-March 31, 2008**
Research Assistant
Dipartimento di Elettronica e Informazione, Politecnico di Milano
- **March 2004-March 2007**
PhD student in Information Engineering, XIX Edition.
Dipartimento di Elettronica e Informazione, Politecnico di Milano
PhD Thesis Theme: "Active braking control systems design for road vehicles".
Advisor: Prof. S.M. Savaresi. Tutor: Prof. S. Bittanti.
Secondary Research Theme: "Stability and Stabilization of Markov Jump Linear Systems".
Advisor: Prof. P. Colaneri
Co-Advisor: Prof. P. Bolzern
- **June 2005- September 2005**
Visiting scholar at the Electrical and Electronic Engineering Department, Imperial College, London, UK. Under the supervision of Prof. A. Astolfi

MATERNITY LEAVES

- Jan. 24, 2014 – Dec. 18, 2014 for the birth of Paola;
- Aug. 24, 2012 – Jul. 17, 2013 for the birth of Giorgio;
- Jul. 11, 2010 – Feb. 14, 2011 for the birth of Matteo.

EDUCATION

- **Master of Science in Computer Science, July 2003**
University of Illinois at Chicago, Chicago, Illinois, USA
GPA (Grade Point Average): 5.0/5.0.

- **Laurea (M.Sc. italian equivalent) in Computer Engineering, July 24th 2003**
Specializing in Automatic Control and Industrial Automation
Politecnico di Milano
Thesis: "A new methodology for system-level hardware/software codesign"
Advisor: Prof. Donatella Sciuto.
Grade: 95/100.
- **PhD in Information Engineering, May 23rd 2007**
Dipartimento di Elettronica e Informazione, Politecnico di Milano
PhD Thesis: "Active braking control systems design for road vehicles".
Advisor: Prof. S.M. Savaresi. Tutor: Prof. S. Bittanti.
Grade: A, with honors (summa cum laude).

PRIZES AND AWARDS

- I. **"Dimitri N. Chorafas PhD Thesis Award"** for the best Ph.D. Thesis in Systems Engineering and Information Technology", **May 2007**.
- II. **"Claudio Maffezzoni PhD Thesis Award,"** second edition. Awarded to the best Italian Ph.D. Thesis among those that show original contributions in solving control problems via mathematical modelling and automatic control theory, **December 2007**.
- III. **"2008 Rudolf Kalman Best Paper Award"** for the paper "Mixed Slip-Deceleration Control in Automotive Braking Systems", assigned by the Dynamic Systems and Control Division of ASME to the best paper published in the ASME Journal of Dynamic Systems, Measurements and Control in 2007, **July 2008**.
- IV. **"General Chairs' Recognition Award"** for Interactive Papers for the paper "Advanced Yaw Control of Four-Wheeled Vehicles via Rear Active Differential Braking", assigned at the combined 48th Conference on Decision and Control and 28th Chinese Control Conference, **December 2009**.
- V. **"2011 Control Engineering Practice Best Paper Prize"** for the paper "On optimal motorcycle braking", assigned by the Elsevier Ltd and the International Federation of Automatic Control to the best paper published in Control Engineering Practice in the period 2008-2011, **September 2011**.
- VI. **"2013 Best Young Author Journal Paper Award"** for the paper "Enhancing Robustness and Performance via Switched Second Order Sliding Mode Control", IEEE Transactions on Automatic Control, Vol. 58, n. 4, April 2013, assigned by the IEEE Control System Society - Italian Chapter, **April 2014**.

INVITED LECTURES AND SEMINARS

- **2022** Invited Speaker at the workshop "SmartMO: Smart City, Mobility, and Gender issues Workshop", held at the University of Modena and Reggio on April 4th, 2022.
- **2021** Invited Presentation at the 4th International Conference on Control and Computer Vision (ICCCV 2021), held online during August 13-15, 2021.
- **2019** Invited Speaker at the Global Meeting of the Women's Forum, held in Paris on Nov 2019, leading a session addressing the importance of language in diversity and inclusion;

- **2018** Invited speaker at the “More on Automotive” Italian symposium, held at the University of Modena and Reggio, an invitation-based gathering of national mobility control experts.
- **2018** Seminar on “Advanced data-driven solutions for smart mobility systems: open problems and challenges” at the GIPSA lab of the Université Grenoble Alpes.
- **2016** Invited speaker at the workshop on “Open Problems and Challenges in Automotive Control” organized by the IEEE CSS Technical committee on Automotive Systems at the 2016 American Control Conference in Boston (I had to decline due to family reasons).
- **2015** Invited speaker at a SIAM Mini-symposium on "Limit cycling in switching systems" that took place at the SIAM Conference on Applications of Dynamical Systems at Snowbird, Utah, USA, May 17-21, 2015 (I had to decline due to family reasons).
- **Apr and Oct 2006:** Invited talk on “Wheel-slip limit cycle Control for Anti-lock Braking Systems with Discrete Actuator Dynamics” and on “Robust Almost Sure Stabilization of Continuous-Time Markov Jump Linear Systems”. Università Federico II, Napoli, Italy.

SERVICES

Scientific societies

- **Chair** of the Technical Committee on “Automotive Controls” of the IEEE Control Systems Society, (2021-2023).
- **Vice-Chair** for Publications of the IFAC Committee on Automotive Control (2021-Today)
- **Member** of the Technical Committee on “Automotive Controls” of the IEEE Control Systems Society, (2015-Today).
- **Member** of Technical Committee on Intelligent Vehicular Systems & Control of the IEEE Systems, Man and Cybernetics Society, (2018-Today).
- **Senior Member**, IEEE Control Systems Society, (2012-Today).

Journals and Conference editorial boards and committees

- **Associate Editor**, IEEE Transactions on Control Systems Technology, (2016-2021).
- **Associate Editor**, IEEE Transactions on Human-Machine Systems, (2018-Today).
- **Associate Editor**, Conference Editorial Board (IEEE Control Systems Society), (2013-Today).
- **Associate Editor** for the European Control Conference 2021, (Ongoing).
- **Member** (one of three) of the Selection Committee of the Best Application Paper Prize Award to be awarded at the 2023 IFAC World Congress, (2023).
- **Member** (one of three) of the Selection Committee of the Control Engineering Practice Paper Prize Award to be awarded at the 2017 IFAC World Congress, (2017).

- **Guest editor** of the Special Issue on “Holistic approaches for Human-Vehicle Systems: combining models, interactions and control” for the IEEE Transactions on Human-Machine Systems, (2017).
- **Guest editor** of the Special Issue on “Driver-Vehicle Systems” for the IEEE Transactions on Human-Machine Systems, (2018).
- **Organizer** of the invited session “Advances in High-order Sliding Mode Control” for the 2013 IEEE Conference on Decision and Control, Firenze, Italy, December 2013.
- **Organizer** of the special session “Driver-Vehicle Systems: Modelling, Dynamics and Control” for the 2013 IEEE Conference on Systems, Man and Cybernetics, Manchester, UK, October 2013
- **Organizer** of the invited session “Advanced Control and Estimation Techniques for Active Vehicle Control Systems” for the 2010 IEEE Multi-conference on Systems and Control, Yokohama, Japan, September 2010.

Participation in Conference Scientific Committees and Session Organisation

- **Program Chair** of the 3rd IEEE Conference on Human-Machine Systems, Orlando, Florida, US, November 2022
- **Member of the program committee** for the 2021 Conference of the Italian Association of Automatic Control, Milano, Italy.
- **Editor (Publication Chair)** for the 2021 IFAC Symposium on LPV Systems held in online form, Italy.
- **Invited Sessions Chair** for the 2021 Mediterranean Control and Automation Conference, Brindisi, Italy.
- **Publicity co-chair** for the 2020 IEEE Conference on Human-Machine Systems, Rome, Italy.
- **Member of the IPC** of the 2013 IEEE Conference on Systems, Man and Cybernetics, UK (2013).
- **Member of the local arrangements committee** for the 2017 Conference of the Italian Association of Automatic Control, Milano, Italy (2017).
- **Member of the IPC** of the 2018 15th IFAC Symposium on Control in Transportation Systems, Savona, Italy (2018).

PhD committees and Boards

- **Member of the Ph.D. defense committee** at TU Delft, the Netherlands, January 2022.
- **Member of the Ph.D. defense committee** at Chalmers University, Stockholm, Sweden, March 2021.

- **Member of the Ph.D Board** for the Ph.D School on Data Analytics and Decision Sciences, Politecnico di Milano, (2019-Today).
- **Member of the internal evaluation committee** for the admission of Ph.D. candidates for the Ph.D. course on “Data Analytics and Decision Sciences”, Politecnico di Milano, 2019 and 2020.
- **Member of the evaluation committee** for the final Ph.D. exam in Control Engineering, University of Pavia, Italy (Jan 15, 2016).

Institutional responsibilities

- **Rector’s Delegate** for Diversity and Inclusion, Politecnico di Milano (2023-today)
- **Director’s Delegate** for Organizational Innovation and KPIs, Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico di Milano, (2023, today)
- **Member of the board** of Fondazione Politecnico di Milano (Dec 2022, today)
- **Member of the Executive Committee** of Fondazione Politecnico di Milano, for which she is the active delegate on STEM-related activities (2021-Today).
- **President of the student transfer committee** to the course of Automation and Control Engineering at B.Sc. level, Politecnico di Milano (2011-Today).
- **Member of the Scientific Advisory Board** of Agens, the Italian Conferderational Agency of Transport and Services (2023 – Today)
- **Co-director** of the post-lauream programme “Digital Mindset and Business Analytics”, designed in collaboration with the PoliMI Graduate Business Schools for Leonardo Helicopter Division (first edition in 2022)
- **Co-director** of the post-lauream programme “Be the Change: Digital Learning Intensive Path”, designed in collaboration with the PoliMI Graduate Business Schools for Leonardo Aircraft Division (first edition in 2023)
- **Member of the Steering Committee** of the Politecnico di Milano in the Joint Research Platform with NTT-Data and PoliDesign for a 5-year-long research relationship (June 2020-Today).
- **Member of the Steering Committee** of the Politecnico di Milano in the Joint Research Platform with BLM Group for a 5-year-long research relationship (Dec 2021- Today).
- **Member of the Steering Committee** of the Politecnico di Milano in the Joint Research Platform launched with the Italian Airforce for a 3-year-long research relationship (Sept 2023-Today).
- **Member** of the working committee in charge of investigating the "Impact of Climate Change on National Infrastructures" for the Italian Ministry of Sustainable Infrastructures and Mobility (April 2021 – February 2022)

- **Member** of the STEMI: Structure for the Ecological Transition of Mobility and Infrastructures for the Italian Ministry of Sustainable Infrastructures and Mobility (June 2022 – October 2022)
- **Member of the Administrative Board** of the Department of Electronics, Information and Bioengineering, Politecnico di Milano (2017-2022).
- **Students' Advocate** (Ombudswoman) of the Politecnico di Milano, a faculty member nominated by Rectoral Appointment given the suggestion of the Students Board and the approval of the Senate (2020-2022).
- **Focal point** for the Industry 4.0 Competence Center MADE located at PoliMI (funded with 15MEUR from the Italian Ministry of Economic Affairs) for the area "Active Worker Assistance" (2019 – 2021).
- **Member of the Steering Committee** of Equal Opportunities at Politecnico, the Rectoral-founded board for Diversity and Inclusion Activities in our University (2018 - 2022).

TEACHING ACTIVITIES

Ph.D. Courses

- **Organizer and co-lecturer** of the course "Identification and Control for the Active Management of Energy in IT Systems", 5 ECTS, Ph.D in Information Engineering, Politecnico di Milano, Politecnico di Milano, 2011.
- **Lecturer** at the annual summer school held at Bertinoro (FO) by the Società Italiana Docenti e Ricercatori in Automatica on "Automotive Control", 2013.
- **Organizer and co-lecturer** of the course "Sliding Mode Control: Theory and Applications", 5 ECTS, Ph.D in Information Engineering, Politecnico di Milano, held in 2014, 2016, 2018 and 2020.
- **Organizer and co-lecturer** of the course "Assessing Cognitive Bias and Affective States through data analytics", 5 ECTS, Ph.D in Data Analytics and Decision Sciences, Politecnico di Milano, Politecnico di Milano, 2019.
- **Organizer and co-lecturer** of the course "Assessing Cognitive Bias and Affective States through data analytics", 2.5 ECTS, Elective Courses offered by the Ph.D. School, Politecnico di Milano, Politecnico di Milano, 2020.
- **Organizer and co-lecturer** of the course "Forecasting and learning for dynamic decision-making", 5 ECTS, Ph.D in Data Analytics and Decision Sciences, Politecnico di Milano, Politecnico di Milano, January 2021.
- **Organizer and co-lecturer** of the course "Cognitive Bias and discriminations: implications, risks and opportunities", 5 ECTS, Elective Courses offered by the Ph.D. School, Politecnico di Milano, Politecnico di Milano, 2022.

M.Sc. Courses (Instructor Duties – Titolare del corso)

a.y. 2020-2021

- **Data-based modelling of dynamical systems and Optimal Control** (for Management Engineering). Undergraduate course, 5 ECTS Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): 3.7/4

a.y. 2021-2022

- **Data-driven modelling of dynamical systems and Optimal Control** (for Management Engineering). M.Sc. course, 5 ECTS Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): 3.8/4.

a.y. 2022-2023

- **Data-driven modelling of dynamical systems and Optimal Control** (for Management

Engineering). M.Sc. course, 5 ECTS Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): 3.9/4

Diversity-aware design of Technology Solutions (for all Engineering courses). M.Sc. course, 5 ECTS Politecnico di Milano. Co-teaching with ChriTeaching quality (obtained by the Politecnico di Milano based on the students' evaluation): n.a.

B.Sc. Courses (Instructor Duties – Titolare del corso)

a.y. 2008-2009

- **Automatic Control** (for Aerospace Engineering). Undergraduate course, 5 ECTS Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): high (high if $>3/4$, medium if $2-3/4$, low if <2).

a.y. 2009-2010

- **Fundamentals of Automatic Control** (for Electrical Engineering), 10 ECTS, Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): high (high if $>3/4$, medium if $2-3/4$, low if <2).

a.y. 2010-2011

- **Fundamentals of Automatic Control** (for Electronic Engineering), 10 ECTS, Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): high (high if $>3/4$, medium if $2-3/4$, low if <2).

a.y. 2011-2012

- **Fundamentals of Automatic Control** (for Electronic Engineering), 10 ECTS, Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): high (high if $>3/4$, medium if $2-3/4$, low if <2).

a.y. 2013-2014

- **Fundamentals of Automatic Control** (for Management Engineering), 10 ECTS, Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): high (high if $>3/4$, medium if $2-3/4$, low if <2).

a.y. 2014-2015

- **Fundamentals of Automatic Control** (for Electronic Engineering), 10 ECTS, Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): high (high if $>3/4$, medium if $2-3/4$, low if <2).

a.y. 2015-2016

- **Fundamentals of Automatic Control** (for Management Engineering), 10 ECTS, Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): high (high if $>3/4$, medium if $2-3/4$, low if <2).

- **Fundamentals of Automatic Control** (for Automation and Control Engineering), 10 ECTS, Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): high (high if $>3/4$, medium if $2-3/4$, low if <2).

a.y. 2016-2017

- **Fundamentals of Automatic Control** (for Automation and Control Engineering), 10 ECTS, Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): high (high if $>3/4$, medium if $2-3/4$, low if <2).

a.y. 2017-2018

- **Fundamentals of Automatic Control** (for Automation and Control Engineering), 10 ECTS, Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): 3.5/4.

a.y. 2018-2019

- **Fundamentals of Automatic Control** (for Automation and Control Engineering), 10 ECTS, Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): 3.4/4.

a.y. 2019-2020

- **Fundamentals of Automatic Control** (for Management Engineering), 10 ECTS, Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): 3.3/4.
- **Fundamentals of Automatic Control** (for Automation and Control Engineering), 10 ECTS, Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): 3.6/4.

a.y. 2020-2021

- **Fundamentals of Automatic Control** (for Automation and Control Engineering), 10 ECTS, Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): 3.8/4

a.y. 2021-2022

- **Fundamentals of Automatic Control** (for Automation and Control Engineering), 10 ECTS, Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): 3.6/4

a.y. 2022-2023

- **Fundamentals of Automatic Control** (for Automation and Control Engineering), 10 ECTS, Politecnico di Milano. Teaching quality (obtained by the Politecnico di Milano based on the students' evaluation): n.a.

M.Sc. and Bs.C. Courses (Tutorial Classes – Esercitazioni)

a.y. 2003-2004

- a. Course: Model Identification and Data Analysis (for Information Engineering). M.Sc. course. Instructor: Prof. S. Bittanti. Hours: 40. University: Politecnico di Milano.
- b. Course: Automatic control (for Aerospace Engineering). Bachelor course. Instructor: Prof. P. Colaneri. Hours: 12. University: Politecnico di Milano.
- c. Course: Circuit Theory (for Computer Engineering). Online bachelor course. Instructor: Prof. M. Pillan. Hours: 16. University: Politecnico di Milano.

a.y. 2004-2005

- a. Course: Model Identification and Data Analysis (for Information Engineering). M.Sc. course. Instructor: Prof. S. Bittanti. Hours: 20. University: Politecnico di Milano.
- b. Course: Model Identification and Data Analysis (for Information Engineering). M.Sc. course. Instructor: Prof. S. M. Savaresi. Hours: 20. University: Politecnico di Milano, Como Campus.
- c. Course: Circuit Theory (for Computer Engineering). Online bachelor course. Instructor: Prof. G. Storti Gajani. Hours: 16. University: Politecnico di Milano.

a.y. 2005-2006

- a. Course: Fundamentals of automatic control (for Computer Engineering). Online bachelor course. Instructor: Prof. P. Bolzern. Hours: 8. University: Politecnico di Milano.
- b. Course: Model Identification and Data Analysis (for Biomedical Engineering). M.Sc. course. Instructor: Prof. S. M. Savaresi. Hours: 20. University: Politecnico di Milano.
- c. Course: Fundamentals of automatic control (for Biomedical Engineering). Bachelor course. Instructor: Prof. M. Prandini. Hours: 16. University: Politecnico di Milano.
- d. Course: Model Identification and Adaptive Systems (for Information Engineering). M.Sc. course taught in English. Instructor: Prof. S. M. Savaresi. Hours: 20. University: Politecnico di Milano, Como Campus.
- e. Course: Circuit Theory (for Computer Engineering). Online bachelor course. Instructor: Prof. G. Storti Gajani. Hours: 8. University: Politecnico di Milano.

a.y. 2006-2007

- a. Course: Model Identification and Data Analysis (for Biomedical Engineering). M.Sc. course. Instructor: Prof. S. M. Savaresi. Hours: 10. University: Politecnico di Milano.
- b. Course: Fundamentals of automatic control (for Computer Engineering). Online bachelor course. Instructor: Prof. L. Piroddi. Hours: 8. University: Politecnico di Milano.
- c. Course: Model Identification and Adaptive Systems (for Information Engineering). M.Sc. course taught in English. Instructor: Prof. S. M. Savaresi. Hours: 20. University: Politecnico di Milano, Como Campus.

- d. Course: Fundamentals of automatic control (for Biomedical Engineering). Bachelor course. Instructor: Prof. M. Prandini. Hours: 16. University: Politecnico di Milano.
- e. Course: Circuit Theory (for Computer Engineering). Online bachelor course. Instructor: Prof. G. Storti Gajani. Hours: 8. University: Politecnico di Milano

a.y. 2007-2008

- a. Course: Model Identification and Data Analysis (for Biomedical Engineering). M.Sc. course. Instructor: Prof. S. M. Savaresi. Hours: 10. University: Politecnico di Milano.
- b. Course: Fundamentals of automatic control (for Computer Engineering). Online bachelor course. Instructor: Prof. L. Piroddi. Hours: 8. University: Politecnico di Milano.
- c. Course: Fundamentals of automatic control (for Biomedical Engineering). Bachelor course. Instructor: Prof. M. Prandini. Hours: 20. University: Politecnico di Milano.
- d. Model Identification and Adaptive Systems (for Information Engineering). M.Sc. course taught in English. Instructor: Prof. S. M. Savaresi. Hours: 20. University: Politecnico di Milano, Como Campus.

a.y. 2008-2009

- a. Course: Model Identification and Data Analysis (for Biomedical Engineering). M.Sc. course. Instructor: Prof. S. M. Savaresi. Hours: 10. University: Politecnico di Milano.
- b. Course: Fundamentals of automatic control (for Computer Engineering). Online bachelor course. Instructor: Prof. L. Piroddi. Hours: 8. University: Politecnico di Milano.
- c. Course: Fundamentals of automatic control (for Biomedical Engineering). Bachelor course. Instructor: Prof. M. Prandini. Hours: 16. University: Politecnico di Milano.

PH.D, M.SC AND B.SC STUDENTS SUPERVISION

- **2018-Today** Advisor of 8 Ph.D. students at Politecnico di Milano.
- **2009 – 2018 Co-Advisor of 6 Ph.D.** students in Information Engineering, working on vehicle dynamics and Control theory Topics.
- **2009 – 2017 Advisor** of more than 10 master and bachelor students for their final thesis.
- **2004 – Today Co-Advisor** of more than 50 master students for their final thesis.

COORDINATION OF AND INVOLVEMENT IN RESEARCH PROJECTS

PI and Co-PI roles

- PI of the project “Flight Condition Recognition algorithm for the AW119 Helicopters”. Funding Source: Leonardo Helicopter Division, Grant 55,000 EUR; Duration: June-Dec 2023
- Co-PI of the project “Design of innovative braking controllers for aircraft”, Funding Source:

Logic, Grant 70,000 EUR; Duration: Jan-Dec 2023

- PI of the project “Automated Scheduling of the Italian Airforce Fleet”. Funding Source: Italian Airforce, Grant 180,000 EUR; Duration: Aug 23 - Dec 2025
- Co-PI of the project “Integrated Longitudinal and lateral ground handling for aircraft”, Funding Source: Leonardo Aircraft Division, Grant 300,000 EUR; Duration: Jan 2023-Dec 2025
- Co-PI of the project: “Data analysis and control approaches for high-power laser applications” BLM Group. Grant: 160.000 EUR, Duration: July 22 – December 24.
- PI of the project “Support for the industrialization of the Transmission Vibration Monitoring for helicopters’ transmissions”. Funding Source: Leonardo Helicopter Division, Grant 30,000 EUR; Duration: June-Nov 2022
- PI of the project “Flight Condition Recognition algorithm for the AW101 Helicopters”. Funding Source: Leonardo Helicopter Division, Grant 100,000 EUR; Duration: Jan-Dec 2022
- PI of the project “Support for the industrialization of the Flight Condition Recognition algorithm for the AW139 Helicopters”. Funding Source: Leonardo Helicopter Division, Grant 20,000 EUR; Duration: Jan-June 2022
- Co-PI of the project: “ABS design for a trainer aircraft” Logic S.p.A. Grant: 80.000 EUR, Duration: Jan 22 – December 22.
- PI of the project “Flight Condition Recognition algorithm for the AW139 Helicopters”. Funding Source: Leonardo Helicopter Division, Grant 100,000 EUR; Duration: Jan-Dec 2021
- Co-PI of the project: “Data Valorization platform to support the digital services of Leonardo Helicopters Division”, Funding Source: Leonardo Helicopter Division, Grant 80,000 EUR; Duration: April-Dec 2022
- PI of the project “GENTLE2: Gender Neutrality Tool for Language Exploration in Italian”. Funding Source: NTT Data, Grant 80,000 EUR; Duration: Jan-Dec 2021.
- Co-PI of the project: “EDDY: a micro-mobility system based on smart e-Scooters”. Funding Source: Officine Edison and PoliHUB; Grant 15,000 EUR, Duration: December 19 – December 20.
- Co-PI of the project: “ABS design for off-road vehicles”. Funding Source: SAFIM s.r.l. Grant 48,000 EUR, Duration: September 19 – October 20.
- PI of the YOU-Share Project “hUman-centric design and management of large-scale shared mobility systems”. Funding Source: Fondazione Cariplo, for the strengthening of ERC candidates; Grant 70,000EUR; Duration: April 19- March 2021.
- Co-PI of the project “Anti-skid design for aircraft”. Funding Source: Leonardo Aircraft Division, Grant 70,000EUR; Duration: April 19- April 2020.
- Co-PI of the project “Machine-learning approaches to the automatic classification of maneuvers”. Funding Source: Leonardo Helicopter Division, Grant 120,000 EUR; Duration: April 19- April 2020.

- PI of the project “Data-driven approaches for the state-of-health monitoring of rotating parts in helicopters”. Funding Source: Leonardo Helicopter Division, Grant 130,000 EUR; Duration: May 19- November 2020.
- PI of the project “Quantitative research analysis for supporting women in STEM”. Funding source: Womens’ Forum. Grant 25,000 EUR; Duration March-Dec 2019.
- PI of the project “GENTLE: Gender Neutrality Tool for Language Exploration”. Funding Source: NTT Data, Grant 130,000 EUR; Duration: April 19- April 2020.
- PI of the project “Design of an automatic assessment process and tool for Diversity and Inclusion metrics in corporate environments”. Funding Source: ValoreD, Grant 27,000 EUR; Duration: 2018.
- Co-PI of the project “Data-analytics tools for estimation of the cutting quality of a laser cutting machine”. Funding source: BLM Group; Grant: 35.000 EUR, Duration: 2018.
- Co-PI of the project “Analysis of vehicle data for insurance purposes”. Funding source: Alpha Evolution- Unipol SAI (Private Insurance Company); Grant: 240.000 EUR, Duration: 2016-2019
- Co-PI of the project “Preliminary design of an electronic HUB and analysis of humidity control systems for smart display cases”. Funding source: Goppion (private company, world leader in art display cases); Grant: 30.000 EUR; Duration: Feb 2017-Feb 2018
- Co-PI of the project “Analysis and redesign of a wheel balancing machine”. Funding source: Bosch Italy; Grant: 40.000 EUR; Duration: Apr 2017- March 2018
- Co-PI of the project “Analysis of smartphone-based data for driving style profiling for insurance purposes”. Funding source: Kirey S.r.l; Grant: 40.000 EUR; Duration: Jan 2017- Feb 2018
- PI and project coordinator of the project “iSHARE: Smart Key for Vehicle Sharing”. Funding source: Lombardy Region; Grant: Total financed: 330.000 EUR, Polimi Unit: 108.000; Partners: E-Novia S.p.A., Zed s.r.l. Duration: May 2017- Nov 2018
- Task Leader for anti-skid controller design for the project “TIVANO - Innovative Technologies for Aviation Vehicles”. Funding source: Italian Ministry of Economic Development (MISE), Cluster project. Grant: Total budget: approx. 10M€; Budget for the PoliMI unit: approx. 1M€. Duration: 2015-2017
- Co-PI of the project “GAME-IT: Green Active Management of IT Systems”. Funding source: Politecnico di Milano; Grant: 60.000 EUR; Duration: 2009-2011
- Co-PI of the project “E-SURF: Enhancing vehicle stability and handling via active aerodynamic SURFACES”. Funding source: Honda Initiation Grant, Europe; Grant: 30.000 EUR; Duration: 2012.

Project Team Member

- 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).

- Analysis and design of an ABS system and longitudinal speed estimation algorithms for vehicles equipped with Electro-Mechanical brakes, within a research contract between Politecnico di Milano and Brembo S.p.A. (Curno - BG, Italy) - 2004.
- Design of control algorithms for a power-shuttle automatic motion inverter, within a research contract between Università degli Studi di Bergamo and SAME Deutz-Fahr Italia S.p.A. (Treviglio - BG, Italy) - 2004.
- Analysis and Design of Adaptive Filtering and Processing algorithms for PC mice equipped with MEMS accelerometers, within a research contract between Politecnico di Milano and ST Microelectronics S.p.A., (Agrate Brianza - MI, Italy) – 2004.
- Control System design for a Power-Split continuously variable transmission, within a research contract between Politecnico di Milano and SAME Deutz-Fahr Italia S.p.A. (Treviglio - BG, Italy) - 2005.
- Side-slip angle and longitudinal wheel slip measurements, within a research contract between Politecnico di Milano and Ducati Corse, (Bologna, Italy) - 2005.
- EU Interreg-REGINS project: SAFEBIKE - Stability control by Advanced Full-braking systems of 2-wheel motorBIKE vehicles (2005-2006).
- Analysis and design of an ABS system for vehicles equipped with Electro-Mechanical brakes without force sensors, within a research contract between Politecnico di Milano and Brembo S.p.A. (Curno - BG, Italy) - 2006.
- Auto-tuning algorithms for a power-shuttle automatic motion inverter, within a research contract between Politecnico di Milano and SAME Deutz-Fahr Italia S.p.A. (Treviglio - BG, Italy) - 2007
- Control system design for a Power-Shift transmission, within a research contract between Politecnico di Milano and SAME Deutz-Fahr Italia S.p.A. (Treviglio - BG, Italy) - 2007.
- Control system design of an electronic throttle for drive-by-wire applications in racing motorbikes, within a research contract between Politecnico di Milano and Aprilia S.p.A. (Noale - VE, Italy) – 2007.
- Control system design for the active compensation of vehicle side-slip in braking maneuvers with ABS/ESP systems, within a research contract between Politecnico di Milano and Fiat Group Automobiles S.p.A. (Torino, Italy) - 2007/2008
- Traction control for drive-by-wire applications in racing motorbikes, within a research contract between Politecnico di Milano and Aprilia S.p.A. (Noale - VE, Italy) - 2008.
- Semi-active steering control for hypersport motorbikes, within a research contract between Politecnico di Milano and Aprilia S.p.A. (Noale - VE, Italy) - 208-2009.
- Clamping force estimation for Electro-Mechanical parking brakes, within a research contract between Politecnico di Milano and Brembo S.p.A. (Curno - BG, Italy) - 2008.

- Control system design for stability control via torque biasing devices in a four-wheel drive vehicle, within a research contract between Politecnico di Milano and Fiat Group Automobiles S.p.A. (Torino, Italy) - 2008.
- Control system design for gear shifting in motorcycles, within a research contract between Politecnico di Milano and Piaggio Group S.p.A. (Pontedera (Pisa), Italy) - 2010-2011.
- Active energy management of electric vehicles, within a research contract between Politecnico di Milano and Piaggio Group S.p.A. (Pontedera (Pisa), Italy) - 2010-2012.

TECHNOLOGY TRANSFER

Patents' inventor

1. 102023000013038 (2023) Sistema e metodo per la rilevazione di disallineamenti nel passo di una o più pale di una turbina eolica., Applicant: Politecnico di Milano. Inventors: S. Milani, J. Leoni, M. Tanelli, S. Cacciola, A. Croce.
2. 102022000022038 PROCEDIMENTO E MACCHINA PER UNA LAVORAZIONE LASER CON STIMA DI RUGOSITA' (2002). Applicants: Politecnico di Milano, Adige S.P.A. Inventors: B. Previtali, S. M. Savaresi, M. Tanelli, M. Pacher, F. Piccoli, V. Finazzi, G. Delama, D. Gandolfi.
3. 21215745.7. (2021). "Method for the classification of the flight regimes of an air vehicle by means of automatic segmentation of the time series acquired during the flight" (METODO PER CLASSIFICARE LE MANOVRE ESEGUITE DA UN AEROMOBILE MEDIANTE SEGMENTAZIONE DI SERIE TEMPORALI DI MISURE ACQUISITE DURANTE UN VOLO DELL'AEROMOBILE). Applicants: Politecnico di Milano, Leonardo S.p.A. (Inventors: E. Villa, F. Zinnari, G. Coral, M. Tanelli, F. Braghin, G. Cazzulani, D. Mezzanzanica, U. Mariani, A. Baldi), EU patent, filed on 17/12/2021.
4. 102021000017558 (2021). "System and method for determining an excessive number of passengers on an eScooter" ("METODO E SISTEMA PER DETERMINARE UN NUMERO ECCESSIVO DI UTENTI A BORDO DI UN MONOPATTINO ELETTRICO "). Applicants: Politecnico di Milano, Edison S.p.a. (Inventors: J. Leoni, A. Lucchini, M. Tanelli, S. Strada, S. Savaresi), Italian patent, filed on 10/12/2021.
5. 21425046.6 (2021). "Method and system for the classification of the flight regimes of an air vehicle, by means of measures acquired during the flight" (METODO E SISTEMA PER RILEVARE REGIMI DI VOLO DI UN AEROMOBILE, SULLA BASE DI MISURE ACQUISITE DURANTE UN VOLO DELL'AEROMOBILE). Applicants: Politecnico di Milano, Leonardo S.p.A. (Inventors: E. Villa, F. Zinnari, J. Leoni, M. Tanelli, D. Mezzanzanica, U. Mariani, A. Baldi), EU patent, filed on 11/10/2021.
6. 102021000018998 (2021). "Real time control system implemented by means of a computer for the control of a physical device" ("Sistema di controllo in tempo-reale implementato mediante computer per il controllo di un sistema o dispositivo fisico). Applicants: Politecnico di Milano (Inventors: S. Longari, A. Pozzone, M. Tanelli, S. Zanero), Italian patent, filed on 19/07/2021.

7. 102021000017558 (2021). "System and methods for the evaluation of functional exercises" ("Sistema e metodi per la valutazione di esercizi funzionali"). Applicants: Politecnico di Milano (Inventors: M. Centurioni, M. Tanelli, S. Savaresi), Italian patent, filed on 02/07/2021.
8. 21425025.0. (2021). "Method and system for the anomaly detection of the components of a helicopter's transmission" (METODO E SISTEMA PER RILEVARE ANOMALIE RELATIVE A COMPONENTI DI UN SISTEMA DI TRASMISSIONE DI UN AEROMOBILE, IN PARTICOLARE UN ELICOTTERO). Applicants: Politecnico di Milano, Leonardo S.p.A. (Inventors: J. Leoni, M. Tanelli, A. Palman, A. Bellazzi, F. Bianchi, L. Bottasso), EU patent, filed on 18/05/2021.
9. 20425059.1. (2020). "Method and system for the classification of the flight regimes of an air vehicle based on measurements acquired during the flight" (METODO E SISTEMA PER RILEVARE E CLASSIFICARE MANOVRE ESEGUITE DA UN AEROMOBILE, SULLA BASE DI MISURE ACQUISITE DURANTE UN VOLO DELL'AEROMOBILE). Applicants: Politecnico di Milano, Leonardo S.p.A. (Inventors: F. Zinnari, G. Coral, M. Tanelli, F. Braghin, G. Cazzulani, D. Mezzanzanica, U. Mariani, A. Baldi), EU patent, filed on 18/12/2020.
10. 102019000025093 (2019). "Laser-cutting processing method" (Procedimento per una lavorazione laser). Applicants: Politecnico di Milano, Adige S.p.A. (Inventors: M. Pacher, **Tanelli, M.**, Strada S., Previtali B, Savaresi S.M., Sbeti M.), Italian patent, filed on 20/12/2019.
11. 102019000005172 (2019). "System and method for the monitoring of the reverse motion of a vehicle" (Sistema e metodo per il monitoraggio dello stato di retromarcia di un veicolo). Applicants: Politecnico di Milano, Alfaevolution Technology S.p.A. (Inventors: Lovati, G.; Carrea, P.; De Tommasi, Savaresi S.M., **M. Tanelli**, S. Strada, S. Gelmini), Italian patent filed on 10/05/2019.
12. 102019000005172 (2019). "System and method for the detection of zero/low speed in a vehicle" (Sistema e metodo per il rilevamento dello stato di fermo di un veicolo). Applicants: Politecnico di Milano, Alfaevolution Technology S.p.A. (Inventors: Lovati, G.; Carrea, P.; De Tommasi, Savaresi S.M., **M. Tanelli**, S. Strada, S. Gelmini), Italian patent filed on 05/04/2019.
13. 102018000008719 (2018). "Automatic monitoring of the motion of a vehicle, preferably a two-wheeled one, to determine possible accidents" (Metodo di monitoraggio automatico del moto di un veicolo preferibilmente a due ruote al fine di determinare eventuali incidenti). Applicants: Politecnico di Milano, Alfaevolution Technology S.p.A. (Inventors: Lovati, G.; Carrea, P.; De Tommasi, Savaresi S.M., **M. Tanelli**, S. Strada, S. Gelmini), Italian patent filed on 19/09/2018.
14. 102018000010764 (2018). "Museum case with relative humidity control" (Vetrina museale con controllo di umidità relativa perfezionato e relativo metodo di controllo). Applicants: Politecnico di Milano, Goppion S.p.A. (Inventors: Goppion, A.; Cotrufo, G.; **Tanelli, M.**; Strada, S.; Savaresi, S. M.), Italian patent filed on 03/12/2018 (USA and Japan extensions filed).
15. 102018000006348 (2018) "System for the combined control of braking and tire-wear in aircraft" (Sistema per il controllo combinato della frenata di un veicolo, in particolare di un aeromobile, e dell'usura di almeno uno pneumatico associato a detto veicolo). Applicant: Politecnico di Milano, (Inventors: L. d'Avico, Savaresi S.M., **M. Tanelli**). Italian patent filed on 18/09/2018.
16. MI2013A000802 (2013) "Load estimation system for a vehicle" (Sistema per la stima di uno o più parametri relativi al carico di un veicolo, in particolare del suo valore assoluto e della sua

distribuzione). Applicants: Politecnico di Milano, e-Novia srl (Inventors: Savaresi S.M., S. Bottelli, I. Boniolo, **M. Tanelli**). Italian patent filed on 16/05/2013.

17. MI2012A000260 (2012) "Assisted cycling bicycle and associated control system" (Bicicletta a pedalata assistita e metodo per il controllo di una bicicletta a pedalata assistita). Applicants: Politecnico di Milano, Università degli Studi di Bergamo (Inventors: Previdi F., S.M Savaresi, M. Corno, **M. Tanelli**, G. Alli, P. Lisanti, P. Spagnol, I. Boniolo, C. Spelta). Italian patent filed on 22/02/2012.
18. MI2011A000980 (2011). "Metodo e apparato per il controllo attivo di stabilit  in un veicolo a due ruote". Piaggio & C. S.P.A. e Politecnico di Milano (S.M. Savaresi, De Filippi P., Corno M., **Tanelli M.**, Santucci, M.). Italian patent filed on 30/05/2011.
19. MI2011A000393 (2011). "Metodo e sistema elettronico per la gestione automatica dell'autonomia energetica di un veicolo, particolarmente in veicoli elettrici". Piaggio & C. S.P.A. e Politecnico di Milano (S.M. Savaresi, A. Dardanelli, **M. Tanelli**, B. Picasso, O. Di Tanna, M. Santucci). Italian patent filed on 11/03/2011.
20. 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. e Politecnico di Milano (S.M. Savaresi, **M. Tanelli**, M. Corno, P. De Filippi, S. Rossi, C. Spelta, L. Fabbri). Italian patent filed on 29/04/2010.
21. MI2009A000904 (2009). "Method for controlling an electronically-modulated damper for a two-wheeled vehicle" (Metodo di controllo di un ammortizzatore di sterzo elettronicamente modulabile per un veicolo a due ruote ed apparato implementante lo stesso). Piaggio & C. S.P.A. e Politecnico di Milano (Inventors: S.M. Savaresi, **M. Tanelli**, M. Corno, P. De Filippi, S. Rossi, C. Spelta, L. Fabbri). Italian patent filed on 21/5/2009.
22. MI2007A559 (2007). "Method and System for determining the roll angle of a two-wheeled vehicle" (Procedimento e apparato per la determinazione di un angolo di rollio di un veicolo a due ruote), Applicants: Politecnico di Milano e CEFRIEL (Inventors: 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". Applicants: Pirelli Pneumatici S.p.A. e Politecnico di Milano (Inventors: Savaresi S., **Tanelli M.**, Langthaler P.). European Patent filed in 2006.
24. PCT/EP2005/050820 (2005). "Automatic braking control system" (Sistema di controllo automatico della frenatura), Applicants: Politecnico di Milano, Freni Brembo S.p.A. (Inventors: Cantoni C., Savaresi S., Charalambakis D., **Tanelli M.**). European Patent filed in 2005.

Spin-off Companies co-founder

Founding partner of one spin-off company: zeHus s.r.l. - www.zehus.it - founded in 2013 - Human-powered electric hybrid vehicles. It successfully went through series-A financing round and is now managed by a full-time manager

BIBLIOMETRICS (as of November 11th, 2023)

- Number of citations
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2624 – SCOPUS
1497 - ISI WEB OF SCIENCE
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27 - SCOPUS
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Books

1. **Tanelli M.**, Corno M., S.M. Savaresi (Eds.) (2014). *Modelling, Simulation and Control of Two-Wheeled Vehicles*. Wiley-Blackwell, Chichester, UK (ISBN: 9781119950189)
2. Savaresi S.M., **M. Tanelli** (2010). *ACTIVE BRAKING CONTROL SYSTEM DESIGN FOR VEHICLES*. 1st Edition., 2010 (ISBN: 978-1-84996-349-7), Springer-Verlag. Chinese version edited in 2014 by China Machine Press (Chinese ISBN: 978-7-111-46902-5).

Book Chapters

1. Breschi, V., Ravazzi, C., Strada, S., Dabbene, F., **Tanelli, M.** "Modeling, analyzing, and fostering the adoption of new technologies: The case of electric vehicles". In *Handbook of Human-Machine Systems*, 2023, pp. 463–478.
2. **M. Tanelli**, M. Corno, A. Ferrara (2017). "Sliding mode control of traction and braking in two-wheeled vehicles". In *Sliding Mode Control of Vehicle Dynamics*, IET Digital Library, pp. 77-120.
3. I. Boniolo, G. Panzani, D. Delvecchio, M. Corno, **M. Tanelli**, C. Spelta, S.M. Savaresi. (2014) "Estimation problems in two-wheeled vehicles. In: *Modeling, Simulation and Control of Two-Wheeled Vehicles*", In: *Modelling, Simulation and Control of Two-Wheeled Vehicles*. John Wiley and Sons Ltd., pp. 319-342.
4. P. De Filippi, **M. Tanelli**, M. Corno. (2014) "Semi-active steering damper control for two-wheeled vehicles". In: *Modeling, Simulation and Control of Two-Wheeled Vehicles*, John Wiley and Sons Ltd., pp. 243-268.
5. Dardanelli A., **M. Tanelli**, S.M. Savaresi, M. Santucci, O. Di Tanna (2013). An energy management system for light two-wheeled vehicles based on a Smartphone-in-the-loop architecture. *Advanced Microsystems for Automotive Applications 2013 (Lecture Notes in Mobility; Eds: J. Fischer-Wolfarth and G. Meyer); within 17th International Forum on Advanced Microsystems for Automotive Applications "Smart Systems for Safe and Green Vehicles" (AMAA 2013)*, Berlin, Germany, pp.137-146 (ISBN: 9783319004754).
6. C. Poussot Vassal, **M. Tanelli**, M. Lovera (2010). A Control-Theoretic Approach for the Combined Management of Quality-of-Service and Energy in Service Centers. In: *Run-time Models for Self-managing Systems and Applications*, ISBN:9783034604321, Birkhauser, pp.73-96.

International Journals

1. Leoni, J., Gelmini, S., Panzani, G., **Tanelli, M.** "A derivative, integral, and proportional feature extractor for fault detection in dynamic processes *Engineering Applications of Artificial Intelligence*, vol. 128, 2024.
2. Mendoza Lopetegui, J.J., Papa, G., Morandini, **M., Tanelli**. "Data-Driven Modeling and Regulation of Aircraft Brakes Degradation via Antiskid Controllers" *IEEE Transactions on Reliability*, 2023, 72(3), pp. 889–899
3. Leoni, J., Strada, S.C., **Tanelli, M.**, Proverbio, A.M. "MIRACLE: MInd ReAding CLassification Engine" *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 2023, pp. 3212–3222.
4. Dolci, T., Azzalini, F., **Tanelli, M.** "Improving Gender-Related Fairness in Sentence Encoders: A Semantics-Based Approach". *Data Science and Engineering*. Vol.8, n.2, pp. 177-195, 2023.
5. Sabug, L., Incremona, G.P., **Tanelli, M.**, Ruiz, F., Fagiano, L.. "Simultaneous design of passive and active spacecraft attitude control using black-box optimization". *Control Engineering Practice*, n.135, 2023.
6. Breschi, V., Ravazzi, C., Strada, S., Dabbene, F., **Tanelli, M.** "Driving electric vehicles' mass adoption: An architecture for the design of human-centric policies to meet climate and societal goals". *Transportation Research Part A: Policy and Practice*, n.171, 2023.
7. Mendoza-Lopetegui, J.J., Papa, G., Morandini, M., **Tanelli, M.** "Shock Absorber Leakage Impact on Aircraft Lateral Stability During Ground Handling Maneuvers". *Journal of Guidance, Control, and Dynamics*. Vol. 46, n.6, pp. 1066-1082, 2023.

8. Longari, S., Pozzone, A., Leoni, J., Polino, M., Carminati, M., Tanelli, M., Zanero, S. "CyFence: Securing Cyber-physical Controllers Via Trusted Execution Environment". IEEE Transactions on Emerging Topics in Computing. pp. 1-12, 2023.
9. Zinnari F., Coral G., **Tanelli M.**, Cazzulani G., Baldi A., Mariani U., Mezzanzanica D., "A Multivariate time-series segmentation framework for Flight Condition Recognition", IEEE Transactions on Aerospace and Electronic Systems, Vol. 59, n.3, pp. 2451-2463, 2023.
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11. Leoni, J., **Tanelli, M.**, Palman, A. "A new comprehensive monitoring and diagnostic approach for early detection of mechanical degradation in helicopter transmission systems" Expert Systems with Applications, n. 210, 2022.
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15. Gelmini, S., Centurioni, M., Pivaro, N., Strada, S.C., **Tanelli, M.**, Savaresi, S. A Data-Driven, Vehicle-Independent Usage Monitoring System for Shared Fleets: Assessing Vertical and Longitudinal Wear (2021) IEEE Vehicular Technology Magazine. DOI: 10.1109/MVT.2021.3122866
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I authorise the use of my personal data in this CV in compliance with Legislative Decree 196/03, art.13.

Milano, April 12th, 2024

Yours faithfully,

A handwritten signature in black ink, appearing to read 'M. Tanelli', written in a cursive style.