

## ANTONINO SFERLAZZA

ASSOCIATE PROFESSOR

### SHORT BIO

He was born in Palermo, Italy. He received the master's degree in automation engineering and the Ph.D. degree in mathematics and automation from the University of Palermo, Palermo, Italy, in 2011 and 2015, respectively. In 2013, he was a Visiting Ph.D. Student with the University of California at Santa Barbara, Santa Barbara, CA, USA, in the field of modeling and analysis of stochastic hybrid systems. From 2016 to 2017, he was with the University of Palermo, as a Junior Researcher. From 2017 to 2018, he was a Researcher with LAAS CNRS, Toulouse, France, working in the field of power converter control. He is currently an associate professor in systems and control engineering at the University of Palermo. His research interests include the development of feedback control algorithms for nonlinear dynamical systems, optimization techniques, estimation of stochastic dynamical systems, and applications of control of electrical drives, power converters, and mechanical systems. Prof. Sferlazza is IEEE Senior Member, serves as an Associate Editor for the European Journal of Control. He is a Technology Conferences Editorial Board member of the IEEE Control System Society.

### CONTACTS

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DEPARTMENT OF ENGINEERING

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### MAIN RESEARCH INTERESTS

•Control systems •Estimation  
•Electrical Drives •Power  
electronics

## PAST POSITIONS

### ASSOCIATE PROFESSOR

DECEMBER 2024 - CURRENTLY

University of Palermo, Department of Engineering, Palermo, Italy.

### RESEARCHER

MAY 2018 - DECEMBER 2024

University of Palermo, Department of Engineering, Palermo, Italy.

### RESEARCHER

MAY 2017 – MAY 2018

LAAS (Laboratory for Analysis and Architecture of Systems) CNRS, Toulouse, France.

### RESEARCH FELLOW

NOVEMBER 2016 – MAY 2017

University of Trento, Department of Industrial Engineering, Trento, Italy.

### RESEARCH FELLOW

JANUARY 2015 - NOVEMBER 2016

University of Palermo, Department of Energy Information Technology Engineering and Mathematical Modelling, Palermo, Italy.

### VISITING PHD STUDENT

MAY 2014 – AUGUST 2014

LAAS CNRS, Toulouse, France.

### VISITING PHD STUDENT

JANUARY 2013 – AUGUST 2013

UCSB University of California at Santa Barbara, Santa Barbara, CA, USA.

### RESEARCH COLLABORATOR

JANUARY 2012 – NOVEMBER 2016

ISSIA CRN (Institute for the Study of Intelligent Systems and Automation – National Council of Research), Italy.

## EDUCATION

### PHD IN ELECTRICAL, ELECTRONICS AND TELECOMMUNICATION ENGINEERING, MATHEMATICS AND AUTOMATICS, AS WELL AS THE QUALIFICATION OF “DOCTOR EUROPAEUS”

UNIVERSITY OF PALERMO

FEBRUARY 2015

Dissertation of the thesis: “Advanced motion control in induction motor systems – modeling, analysis and control”

### MASTER DEGREE IN AUTOMATION ENGINEERING

UNIVERSITY OF PALERMO

OCTOBER 2011

Summa cum laude

### BACHELOR DEGREE IN AUTOMATION ENGINEERING

UNIVERSITY OF PALERMO

MARCH 2010

Summa cum laude

**WORK EXPERIENCE****EDUCATIONAL ACTIVITIES:**

Professor at the University of Palermo, Department of Engineering, of the following courses:

- Automatic Control. From 2018 – Currently.
- Automotive control systems. From 2018 – Currently.
- Estimation, filtering and system identification. From 2021 – Currently.
- Data Analysis. From 2022 – Currently.

The activities can be verified at:

<https://www.unipa.it/persone/docenti/s/antonino.sferlazza/?pagina=insegnamenti>

Member of the teaching board in the PhD international program of “Information and Communication Technologies”, From 2019 – Currently.

Thesis advisor:

- Master thesis: 36 Thesis;
- PhD student: 5 students (ongoing);

The activities can be verified at:

<https://www.unipa.it/persone/docenti/s/antonino.sferlazza/?pagina=tesi>

**INSTITUTIONAL ACTIVITIES:**

Secretary of Electronics Engineering L-8 (Bachelor) From November 2022 – Currently.

Secretary of Electronics Engineering LM-29 (Master) From November 2022 – Currently.

Secretary of the CICS in Cybernetics Engineering (Bachelor) and Cyber-Physical systems for industry (Master). From October 2018 – Currently.

Delegate of the Director of the Engineering Department for Relations with Student Associations. From November 2024 – Currently.

Member of the CPDS “Commissione Paritetica Docenti Studenti” of Electronics Engineering L-8 (Bachelor). From October 2019 – January 2025.

Member of the CPDS “Commissione Paritetica Docenti Studenti” of Aerospace Engineering LM-20 (Master). From January 2025 – Currently.

## **PARTECIPATIONS IN RESEARCH PROJECTS:**

Project: Alice STEM – Approcci e laboratori innovativi per comunità educanti STEM, funded by Fondo per la Repubblica Digitale – Impresa sociale.

Scientific director of the project for the UNIPA activities.

ALICE STEM - is an initiative that places the right to choose, highlighting how territorial and gender inequalities can limit the possibility of making informed decisions about one's future. The project aims to reduce the gender and geographical gap in STEM ICT careers, with a focus on electronic engineering, through a transdisciplinary approach, high-tech laboratories, and a widespread and inclusive educational community.

Project: *The SiciliAn MicronanOTech Research and Innovation Center “SAMOTHRACE”*, funded by the Italian Ministry of University and Research.

Supervisor for activities within SPOKE 3 – WP3 – SMART MOBILITY – A3.2: *“Exploitation of the new SiC and GaN active devices, and related control techniques, to increase the efficiency and power density of converters for automotive applications.”*

The work focuses on the design and development of control algorithms for the management of energy flows in DC microgrids, with applications to hybrid and electric vehicles. Participation in the research activities is evidenced by the following scientific publications, identified by their DOI: 10.1109/ACCESS.2023.3267984; 10.1109/IECON51785.2023.10312047; 10.1109/ECCE53617.2023.10362703; 10.1109/EEE-AM58328.2023.10395325; 10.1109/EEE-AM58328.2023.10395402; 10.1109/ACCESS.2024.3427671; 10.1109/LCSYS.2025.3579413.

Project: *MOST Sustainable Mobility Center* (Centro Nazionale per la Mobilità Sostenibile – CNMS), funded by the Italian Ministry of University and Research.

The activities involve the development of innovative solutions for sustainable mobility, with a focus on electric vehicles, smart charging systems, and low environmental impact technologies. The work includes the design, testing, and validation of advanced control systems for electric vehicles. Participation in the research activities is evidenced by the following scientific publications, identified by their DOI: 10.1109/ACCESS.2023.3267984; 10.1109/ECCE53617.2023.10362703.

Project: *Seaview*, funded by the PO FESR Sicilia 2014–2020 program.

The activities carried out within this project focus on the design and development of position estimators based on sporadic distance measurements from fixed reference points. Participation in the research activities is evidenced by the following scientific publications, identified by their DOI: 10.3390/s22166308; 10.1016/j.nahs.2023.101360.

Project: *GaN4AP (Gallium Nitride for Advanced Power Applications)*, funded by the Electronic Component Systems for European Leadership Joint Undertaking (ECSEL JU).

The activities carried out within this project focus on the design and development of control algorithms for power converters using GaN devices. Participation in the research activities is evidenced by the following scientific publications, identified by their DOI: 10.1109/ACCESS.2023.3267984; 10.1007/978-3-031-48711-8; 10.1109/EEE-AM58328.2023.10395325; 10.1109/EEE-AM58328.2023.10395402.

Project: *REACTION – "first and euRoP eAn siC eighT 386 Inches piLot liNe"*, co-funded by the Electronic Component Systems for European Leadership Joint Undertaking (ECSEL JU).

The activities carried out within this project focus on the design and development of control algorithms for power converters using SiC devices. Participation in the research activities is evidenced by the following scientific publications, identified by their DOI: 10.1109/TCSI.2021.3083900; 10.1109/ACCESS.2021.3126433; 10.3390/electronics11152336; 10.1007/978-3-031-48711-8; 10.1109/EEE-AM58328.2023.10395658.

Project: *HISPALIS: Hybrid self-adaptive multi-agent systems for microgrids*, funded by the French National Research Agency (ANR) 2018.

The activities carried out within this project focus on the development of control algorithms for power electronic converters within DC microgrids. Participation in the research activities is evidenced by the following scientific publication, identified by its DOI: 10.1109/TIE.2019.2908597; 10.1016/j.conengprac.2020.104602.

Project: *SYNERGY*. Direction and coordination of the project activities of the MAC (Methods and Algorithms in Control) group and the ISGE (Power Management System Integration) group at LAAS CNRS in Toulouse, France. This project focuses on the development of control techniques for power electronic converters based on hybrid systems theory. Participation in the research activities is evidenced by the following scientific publications, identified by their DOI: 10.1109/TIE.2019.2908597.

Project: *ACANTO – A Cyberphysical social NeTwOrk using robot friends*, funded by the European Commission.

This activity focused on the study and implementation of a variable compliance control law for mechanical guidance systems in assistive robotics. Participation in the research activities is evidenced by the following scientific publications, identified by their DOI: 10.1109/RTSI.2017.8065944.

Project: *RITmare – Italian Research for the Sea*, funded by the Italian Ministry of University and Research.

The activities promoted research and technological innovation for the protection, management, and sustainable development of marine resources. The scope of activities ranges from environmental monitoring to marine robotics and integrated coastal zone management. Participation in the research activities is evidenced by the following scientific publications, identified by their DOI: 10.1109/ECCE.2015.7310065; 10.1109/TIA.2015.2465939;

10.1109/ECCE.2014.6953885, 10.1109/TIA.2014.2316367;  
10.1109/TIA.2013.2272051; 10.1109/TIA.2016.2596710.

Project: *TESEO – High efficiency technologies for on-board energy and environmental sustainability*, under research project PON02\_00153\_2939517.

The activities aimed at developing high-efficiency technologies for energy management and environmental sustainability aboard naval vessels. The work includes advanced control of converters, integration of innovative electrical systems, and reduction of environmental impact. Participation in the research activities is evidenced by the following scientific publications, identified by their DOI:  
10.1109/ECCE.2015.7310065; 10.1109/TIA.2015.2465939;  
10.1109/ECCE.2014.6953885, 10.1109/TIA.2014.2316367;  
10.1109/TIA.2013.2272051; 10.1109/TIA.2016.2596710;  
10.1109/TIA.2017.2710940; 10.1109/TIA.2019.2952034;  
10.1109/TIA.2022.3228968.

Project: *TETI – Innovative Technologies for Control*; (PON R&S 2014-2020).

The activities focused on the development of innovative technologies for advanced control of high-performance electrical and mechatronic systems. The work involved the design of control algorithms, observers, and their integration into experimental prototypes for industrial and naval applications. Participation in the research activities is evidenced by the following scientific publications, identified by their DOI: 10.1007/978-3-031-55696-8\_10;  
10.1109/TIA.2022.3228968; doi.org/10.3390/en16041612;  
10.1109/TIA.2023.3252528; 10.1109/IECON51785.2023.10312047;  
10.1109/ECCE53617.2023.10362703; 10.1109/EEE-AM58328.2023.10395402.

Project: *NAUSICA – Efficient ships through the use of innovative and low carbon technological solutions*; (PON R&S 2014-2020).

The activities aimed at improving ship efficiency through the adoption of innovative and low-carbon technological solutions. The work includes the development of electric propulsion systems, advanced control techniques, and on-board energy optimization. Participation in the research activities is evidenced by the following scientific publications, identified by their DOI: 10.1007/978-3-031-55696-8\_10; 10.3390/en14185616;  
10.3390/en16041612.

Project: *Robotic Assisted Diving (RoAD) – PRIN 2012*, funded by the Italian Ministry of University and Research.

The activities carried out within this project focus on the development of navigation, guidance, and control algorithms for underwater vehicles. Participation in the research activities is evidenced by the following scientific publications, identified by their DOI: 10.1109/ISIE.2016.7744916;  
10.1109/ISIE.2016.7744920; 10.1109/TIA.2017.2697845;  
10.1109/TIA.2018.2869112.

## PRIZES

Awarded with the “Best Young Scientist Award” at the 4th International Conference on Power Systems and Electrical Technology (PAST), held in Tokyo on 4-8 2025.

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ASSOCIATE PROFESSOR

Winner of the Best Paper Award in memory of Prof. Salvatore (Enzo) Piazza, with the paper:  
Sferlazza A., Tarbouriech S., Zaccarian L. (2019). *Time-Varying Sampled-Data Observer with Asynchronous Measurements*. IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol. 64, p. 869-876, ISSN: 0018-9286, doi: 10.1109/TAC.2018.2839974.

Elected to the grade of IEEE Senior Member from the IEEE board Officers and Board of Directors in recognition of professional standing.

## EDITORIAL ACTIVITIES

- Associate Editor of the "European Journal of Control," published by Elsevier, with Professor T. Parisini as Editor-in-Chief.

Title can be verified by accessing the journal's website:

<https://www.sciencedirect.com/journal/europeanjournal-of-control/about/editorial-board>

- Associate Editor of the Technology Conference Editorial Board (TCEB) - IEEE Control System Society.

Title can be verified from the IEEE-CSS website:

<https://ieeecss.org/conferences/technologyconference-editorial-board-tceb>

- Member of the Technical Program Committee of the 2024 Conference on Decision and Control (CDC), sponsored by the IEEE Control System Society.

Title can be verified by visiting the conference website:

<https://cdc2024.ieeecss.org/about/committees>

## PUBLICATIONS

**ORCID:** <https://orcid.org/0000-0003-1325-2648>

## INDEXES:

- SCHOLAR:  
<https://scholar.google.com/citations?user=SAQ0nlwAAA&hl=it&oi=ao>

Citations: 2246;

H-Index: 25;

I10-index: 40;

Documents: 102;

- SCOPUS:  
<https://www.scopus.com/authid/detail.uri?authorId=36810294300>

Citations: 1837;

H-Index: 22;

I10-index: 39;

Documents: 100;

- J1. F. Alonge, F. D'Ippolito, and A. Sferlazza, "Sensorless control of induction-motor drive based on robust Kalman filter and adaptive speed estimation," *IEEE Transactions on Industrial Electronics*, vol. 61, no. 3, pp. 1444-1453, 2014. <https://doi.org/10.1109/TIE.2013.2257142>
- J2. F. Alonge, M. Cirrincione, F. D'Ippolito, M. Pucci, and A. Sferlazza, "Parameter identification of linear induction motor model in extended range of operation by means of input-output data," *IEEE Transactions on Industry Applications*, vol. 50, no. 2, pp. 959-972, 2014. <https://doi.org/10.1109/TIA.2013.2272051>
- J3. F. Alonge, A. Fagiolini, A. Sferlazza, et al., "Extended complex Kalman filter for sensorless control of an induction motor," *Control Engineering Practice*, vol. 27, pp. 1-10, 2014. <https://doi.org/10.1016/j.conengprac.2014.02.007>
- J4. F. Alonge, M. Cirrincione, F. D'Ippolito, M. Pucci, A. Sferlazza, and G. Vitale, "Descriptor-type Kalman filter and TLS EXIN speed estimate for sensorless control of a linear induction motor," *IEEE Transactions on Industry Applications*, vol. 50, no. 6, pp. 3754 - 3766, 2014. <https://doi.org/10.1109/TIA.2014.2316367>
- J5. A.R. Teel, A. Subbaraman, and A. Sferlazza, "Stability analysis for stochastic hybrid systems: A survey," *Automatica*, vol. 50, no. 10, pp. 2435-2456, 2014. <https://doi.org/10.1016/j.automatica.2014.08.006>
- J6. F. Alonge, M. Cirrincione, M. Pucci, and A. Sferlazza, "Input-output feedback linearizing control of linear induction motor taking into consideration the end-effects. Part I: Theoretical analysis," *Control Engineering Practice*, vol. 36, no. 0, pp. 133-141, 2015. <https://doi.org/10.1016/j.conengprac.2014.08.009>
- J7. F. Alonge, M. Cirrincione, M. Pucci, and A. Sferlazza, "Input-output feedback linearizing control of linear induction motor taking into consideration the end-effects. Part II: Simulation and experimental results," *Control Engineering Practice*, vol. 36, no. 0, pp. 142-150, 2015. <https://doi.org/10.1016/j.conengprac.2014.08.009>
- J8. F. Alonge, F. D'Ippolito, A. Fagiolini, and A. Sferlazza, "Convergence analysis of extended Kalman filter for sensorless control of induction motor," *IEEE Transactions on Industrial Electronics*, vol. 62, no. 4, pp. 2341-2352, 2015. <https://doi.org/10.1109/TIE.2014.2355133>
- J9. S. Chiappone, O. Giuffrè, A. Grana, R. Mauro, and A. Sferlazza, "Traffic simulation models calibration using speed-density relationship: An automated procedure based on genetic algorithm," *Expert Systems with Applications*, vol. 44, pp. 147-155, 2016. <https://doi.org/10.1016/j.eswa.2015.09.024>
- J10. F. Alonge, M. Cirrincione, M. Pucci, and A. Sferlazza, "Input-output feedback linearization control with on-line MRAS based inductor resistance estimation of linear induction motors including the dynamic end-effects," *IEEE Transactions on Industry Applications*, vol. 52, no. 1, pp. 254-266, 2016. <https://doi.org/10.1109/TIA.2015.2465939>
- J11. F. Alonge, M. Cirrincione, F. D'Ippolito, M. Pucci, and A. Sferlazza, "Adaptive feedback linearizing control of linear induction motor considering the end-effects," *Control Engineering Practice*, vol. 55, pp. 116-126, 2016. <https://doi.org/10.1016/j.conengprac.2016.06.018>
- J12. F. Alonge, M. Cirrincione, F. D'Ippolito, M. Pucci, and A. Sferlazza, "Feedback linearizing control of induction motor considering magnetic saturation effects," *IEEE Transactions on Industry Applications*, vol. 52, no. 6, pp. 4843-4854, 2016. <https://doi.org/10.1109/TIA.2016.2596710>



- J13. F. Alonge, M. Cirrincione, F. D'Ippolito, M. Pucci, and A. Sferlazza, "Robust active disturbance rejection control of induction motor systems based on additional sliding mode component," *IEEE Transactions on Industrial Electronics*, vol. 64, no. 7, pp. 5608-5621, 2017. <https://doi.org/10.1109/TIE.2017.2677298>
- J14. F. Alonge, M. Cirrincione, F. D'Ippolito, M. Pucci, and A. Sferlazza, "Active disturbance rejection control of linear induction motor," *IEEE Transactions on Industry Applications*, vol. 53, no. 5, pp. 4460-4471, 2017. <https://doi.org/10.1109/TIA.2017.2697845>
- J15. F. Alonge, M. Cirrincione, F. D'Ippolito, M. Pucci, and A. Sferlazza, "A nonlinear observer for rotor flux estimation of induction motor considering the estimated magnetization characteristic," *IEEE Transactions on Industry Applications*, vol. 53, no. 6, pp. 5952-5965, 2017. <https://doi.org/10.1109/TIA.2017.2710940>
- J16. O. Giuffrè, A. Granà, M.L. Tumminello, and A. Sferlazza, "Estimation of passenger car equivalents for single-lane roundabouts using a microsimulation-based procedure," *Expert Systems with Applications*, vol. 79, pp. 333-347, 2017. <https://doi.org/10.1016/j.eswa.2017.03.003>
- J17. O. Giuffrè, A. Granà, M.L. Tumminello, and A. Sferlazza, "Capacity-based calculation of passenger car equivalents using traffic simulation at double-lane roundabouts," *Simulation Modelling Practice and Theory*, vol. 81, pp. 11-30, 2018. <https://doi.org/10.1016/j.simpat.2017.11.005>
- J18. O. Giuffrè, A. Granà, M.L. Tumminello, and A. Sferlazza, "Calibrating a microscopic traffic simulation model for roundabouts using genetic algorithms," *Journal of Intelligent & Fuzzy Systems*, no. Preprint, pp. 1-16, 2018. <https://doi.org/10.3233/JIFS-169714>
- J19. O. Giuffrè, A. Granà, M.L. Tumminello, T. Giuffrè, S. Trubia, A. Sferlazza, and M. Rencelj, "Evaluation of roundabout safety performance through surrogate safety measures from microsimulation," *Journal of Advanced Transportation*, vol. 2018, pp. 1-16, 2018. <https://doi.org/10.1155/2018/4915970>
- J20. A. Sferlazza, S. Tarbouriech, and L. Zaccarian, "Time-varying sampled-data observer with asynchronous measurements," *IEEE Transactions on Automatic Control*, vol. 64, no. 2, pp. 869-876, 2019. <https://doi.org/10.1109/TAC.2018.2839974>
- J21. A. Accetta, F. Alonge, M. Cirrincione, F. D'Ippolito, M. Pucci, R. Rabbeni, and A. Sferlazza, "Robust control for high performance induction motor drives based on partial state-feedback linearization," *IEEE Transactions on Industry Applications*, vol. 55, no. 1, pp. 490-503, 2019. <https://doi.org/10.1109/TIA.2018.2869112>
- J22. F. Alonge, F. D'Ippolito, G. Garraffa, and A. Sferlazza, "A hybrid observer for localization of mobile vehicles with asynchronous measurements," *Asian Journal of Control*, vol. 21, no. 4, pp. 1506-1521, 2019. <https://doi.org/10.1002/asjc.2071>
- J23. A. Accetta, M. Cirrincione, M. Pucci, and A. Sferlazza, "State space-vector model of linear induction motors including end-effects and iron losses part I: Theoretical analysis," *IEEE Transactions on Industry Applications*, vol. 56, no. 1, pp. 235-244, 2019. <https://doi.org/10.1109/TIA.2019.2952031>
- J24. A. Accetta, M. Cirrincione, M. Pucci, and A. Sferlazza, "State-space vector model of linear induction motors including end-effects and iron losses - part II: Model identification and results," *IEEE Transactions on Industry Applications*, vol. 56, no. 1, pp. 245-255, 2019. <https://doi.org/10.1109/TIA.2019.2952034>
- J25. A. Sferlazza, C. Albea-Sanchez, L. Martínez-Salamero, G. Garcia, and C. Alonso, "Min-type control strategy of a DC-DC synchronous boost converter," *IEEE Transactions on Industrial Electronics*, vol. 67, no. 4, pp. 3167-3179, 2019. <https://doi.org/10.1109/TIE.2019.2908597>



- J26. A. Sferlazza, C. Albea-Sanchez, and G. Garcia, “A hybrid control strategy for quadratic boost converters with inductor currents estimation,” *Control Engineering Practice*, vol. 103, p. 104602, 2020. [h  
https://doi.org/10.1016/j.conengprac.2020.104602](https://doi.org/10.1016/j.conengprac.2020.104602)
- J27. A. Accetta, F. Alonge, M. Cirrincione, F. D’Ippolito, M. Pucci, and A. Sferlazza, “GA based off-line parameter estimation of the induction motor model including magnetic saturation and iron losses,” *IEEE Open Journal of Industry Applications*, vol. 1, pp. 135–147, 2020. [h  
https://doi.org/10.1109/OJIA.2020.3024567](https://doi.org/10.1109/OJIA.2020.3024567)
- J28. G. Garraffa, A. Sferlazza, F. D’Ippolito, and F. Alonge, “Localization based on parallel robots kinematics as an alternative to trilateration,” *IEEE Transactions on Industrial Electronics*, vol. 69, no. 1, pp. 999–1010, 2021. <https://doi.org/10.1109/TIE.2021.3050354>
- J29. F. Alonge, F. D’Ippolito, A. Fagiolini, G. Garraffa, and A. Sferlazza, “Trajectory robust control of autonomous quadcopters based on model decoupling and disturbance estimation,” *International Journal of Advanced Robotic Systems*, vol. 18, no. 2, pp. 1–12, 2021. [h  
https://doi.org/10.1177/1729881421996974](https://doi.org/10.1177/1729881421996974)
- J30. A. Accetta, M. Cirrincione, M. Pucci, and A. Sferlazza, “Space-vector state dynamic model of SynRM considering self- and cross-saturation and related parameter identification”. *IET Electric Power Applications*, vol. 14, no. 14, pp. 2798–2808, 2021. [e  
https://doi.org/10.1049/iet-pa.2020.0504](https://doi.org/10.1049/iet-pa.2020.0504)
- J31. A. Sferlazza, S. Tarbouriech, and L. Zaccarian, “State observer with Round-Robin aperiodic sampled measurements with jitter”. *Automatica*, vol. 129, 2021. <https://doi.org/10.1016/j.automatica.2021.109573>
- J32. C. Albea, A. Sferlazza, F. Gordillo, and F. Gómez-Estern, “Control of Power Converters with Hybrid Affine Models and Pulse-Width Modulated Inputs”. *IEEE Transactions on Circuits and Systems I: Regular Papers*, vol. 68, no. 8, pp. 3485–3494, 2021. <https://doi.org/10.1109/TCSI.2021.3083900>
- J33. M. Luna, A. Sferlazza, A. Accetta, MC. Di Piazza, G. La Tona, and M. Pucci, “Modeling and Performance Assessment of the Split-Pi Used as a Storage Converter in All the Possible DC Microgrid Scenarios. Part I: Theoretical Analysis”. *Energies*, vol. 14, no. 16, pp. 4902, 2021. [h  
https://doi.org/10.3390/en14164902](https://doi.org/10.3390/en14164902)
- J34. M. Luna, A. Sferlazza, A. Accetta, MC. Di Piazza, G. La Tona and M. Pucci, “Modeling and Performance Assessment of the Split-Pi Used as a Storage Converter in All the Possible DC Microgrid Scenarios. Part II: Simulation and Experimental Results”. *Energies*, vol. 14, no. 18, pp. 5616, 2021. <https://doi.org/10.3390/en14185616>
- J35. C. Albea, A. Sferlazza, F. Gómez-Estern, and F. Gordillo, “Hybrid modelling and control of a class of power converters with triangular-carrier PWM inputs”. *IEEE Access*, Vol. 9, pp. 151607–151620, 2021. [h  
https://doi.org/10.1109/ACCESS.2021.3126433](https://doi.org/10.1109/ACCESS.2021.3126433)
- J36. A. Accetta, M. Cirrincione, M. Pucci, and A. Sferlazza, “Feedback linearization based nonlinear control of SynRM drives accounting for self- and cross-saturation,” *IEEE Transactions on Industry Applications*, vol. 58, no. 3, pp. 3637–3651, 2022. <https://doi.org/10.1109/TIA.2022.3155511>
- J37. A. Accetta, M. Cirrincione, D’Ippolito, F., M. Pucci, and A. Sferlazza, “Input-output feedback linearization control of a linear induction motor taking into consideration its dynamic end-effects and iron losses,” *IEEE Transactions on Industry Applications*, vol. 58, no. 3, pp. 3664–3673, 2022. <https://doi.org/10.1109/TIA.2022.3160409>
- J38. F. Alonge, A. Busacca, C. Calabretta, F. D’Ippolito, A. Fagiolini, G. Garraffa, A.A. Messina, A. Sferlazza, and S. Stivala “Nonlinear robust control of a quadratic boost converter in a wide operation range, based on extended linearization method”, *Electronics*, vol. 11, no. 15, pp. 2336,

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