

LODI MATTEO

Overview

? Unit: ICT

? Role: Ricercatore

? Grade: Ricercatore t.d. art. 24 c. 3 lett. B Legge 240/10 (t.pieno) + 20%

? SSD: IJET-01/A (Elettrotecnica)

? Scopus ID: 57200266678

? Unige Id: 356981

? Retrieved at: 2025-11-14T15:16:05.995611

Contact

? Email: matteo.lodi@unige.it

? Page: <https://rubrica.unige.it/personale/VkZBUIJo>

? Locations: Opera Pia - padiglione D (ED161450401), 2° piano, US161450401.II.028

Career

? Dr, 2015-11-01 ? 2018-10-31

? Cb, 2017-02-22 ? 2020-09-20

? Ar, 2018-11-02 ? 2021-09-30

? Rd, 2021-10-01 ? 2026-06-30

Teaching

2025

? Circuits And Systems (114620), L-8 - Ingegneria Informatica

? Elettrotecnica (98175), L-9 - Ingegneria Gestionale

? Elettrotecnica (98175), L-9 - Ingegneria Gestionale

? Signal Processing In Robotics (105038), Lm-32 - Robotics Engineering

2024

? Signal Processing In Robotics (105038), Lm-32 - Robotics Engineering

? Elettrotecnica (98175), L-9 - Ingegneria Gestionale

2023

? Signal Processing In Robotics (105038), Lm-32 - Robotics Engineering

? Elettrotecnica (98175), L-9 - Ingegneria Gestionale

2022

? Signal Processing In Robotics (105038), Lm-32 - Robotics Engineering

? Elettrotecnica (98175), L-9 - Ingegneria Gestionale

2021

? Signal Processing In Robotics (105038), Lm-32 - Robotics Engineering

? Elettrotecnica (98175), L-9 - Ingegneria Gestionale

Scopus Metrics

? absolute; Docs: 59; Journals: 27; Conferences: 31; Citations: 518; H-index: 13

? 15 years (2010-2025); Docs: 59; Journals: 27; Conferences: 31; Citations: 518; H-index: 13

? 10 years (2015-2025); Docs: 58; Journals: 27; Conferences: 30; Citations: 516; H-index: 13

? 05 years (2020-2025); Docs: 37; Journals: 22; Conferences: 14; Citations: 269; H-index: 8

Scopus Products

1.

? Title: Synthetic inertia estimation in the presence of measurement noise and delays:
An application to wind turbine generators
? Venue: International Journal of Electrical Power and Energy Systems
? Year: 2025
? Type: Journal
? Subtype: Article
? Citations: 0
? DOI: 10.1016/j.ijepes.2025.110511
? Scopus ID: 2-s2.0-85217714961
? Issn: 01420615
? Volume: 166
? Authors: Baruzzi Valentina; Rosini Alessandro; Lodi Matteo; Bonfiglio Andrea; Oliveri
Alberto
? Keywords: Real-time simulations | Synthetic inertia | Wind turbine generator
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 57, percentile 94)
? Energy Engineering and Power Technology (Q1, rank 25, percentile 92)
? Source Id: 17985
? Author Ids: 57216455935;57204050700;57200266678;36607521000;57200399832
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Baruzzi V.

2.

? Title: FPGA Implementation of Nonlinear Model Predictive Control for a Boost
Converter with a Partially Saturating Inductor
? Venue: Electronics Switzerland
? Year: 2025
? Type: Journal
? Subtype: Article
? Citations: 1
? DOI: 10.3390/electronics14050941
? Scopus ID: 2-s2.0-86000650676
? eISSN: 20799292
? Volume: 14
? Issue: 5
? Authors: Ravera Alessandro; Oliveri Alberto; Lodi Matteo; Storace Marco
? Keywords: magnetic saturation | nonlinear model predictive control | switched mode
power supply
? Quartile:
2025:
? Signal Processing (Q1, rank 36, percentile 81)
? Electrical and Electronic Engineering (Q1, rank 220, percentile 78)
? Control and Systems Engineering (Q1, rank 91, percentile 76)
? Computer Networks and Communications (Q1, rank 131, percentile 76)
? Hardware and Architecture (Q2, rank 62, percentile 73)
? Source Id: 21100829272
? Author Ids: 57214792545;57200399832;57200266678;7004134087
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Ravera A.

3.

? Title: Modeling Amorphous-Core Inductors up to Magnetic Saturation
? Venue: IEEE Transactions on Power Electronics

? Year: 2025
? Type: Journal
? Subtype: Article
? Citations: 5
? Doi: 10.1109/Tpel.2024.3463803
? Scopus ID: 2-s2.0-85204943092
? Issn: 08858993
? eISSN: 19410107
? Volume: 40
? Issue: 1
? Pages: 1563-1576
? Authors: Ravera Alessandro; Oliveri Alberto; Lodi Matteo; Beatrice Cinzia; Ferrara Enzo; Fiorillo Fausto; Storace Marco
? Keywords: Amorphous core | magnetic saturation | nonlinear circuit model | power inductor
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 50, percentile 95)
? Source Id: 26055
? Author Ids:
57214792545;57200399832;57200266678;7004523868;56211874000;7006013405;7004134087
? Authoraffiliationids: 60025153;60025153;60025153;60073835;60073835;60073835;60025153
? Corresponding: Ravera A.

4.

? Title: Low-Level Simulation of a Grid-Following Inverter with Synthetic Inertia
? Venue: 2025 Aeit Hvdc International Conference Aeit Hvdc 2025
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Aeithvdc66044.2025.11079533
? Scopus ID: 2-s2.0-105012573490
? Authors: Lodi M.; Oliveri A.; Saviozzi M.; Conte F.; Baggi P.
? Keywords: Commercial inverter | inverter modeling | Synthetic inertia
? Source Id: 21101318126
? Author Ids: 57200266678;57200399832;56027556100;57151673600;60030400500
? Authoraffiliationids: 60025153;60025153;60025153;60005308;132941234
? Corresponding: Lodi M.

5.

? Title: Cluster Synchronization and Associative Memory in Adaptive Networks with Neural Plasticity
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2025
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Isccas56072.2025.11044239
? Scopus ID: 2-s2.0-105010617695
? Issn: 02714310
? Authors: Lodi Matteo; Sorrentino Francesco; Storace Marco
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)
? Source Id: 56190

? Author Ids: 57200266678;57203233721;7004134087

? Authoraffiliationids: 60025153;60138187;60025153

? Corresponding: Lodi M.

6.

? Title: A black-box approach for generating surrogate data for an amorphous-core inductor working up to magnetic saturation

? Venue: Proceedings IEEE International Symposium on Circuits and Systems

? Year: 2025

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1109/IsCAS56072.2025.11043328

? Scopus ID: 2-s2.0-105010594000

? Issn: 02714310

? Authors: Ravera Alessandro; Baazaoui Sofien; Lodi Matteo; Oliveri Alberto; Storace Marco

? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

? Source Id: 56190

? Author Ids: 57214792545;59332602300;57200266678;57200399832;7004134087

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153

? Corresponding: Ravera A.

7.

? Title: The efficiency of synchronization dynamics and the role of network syncreactivity

? Venue: Nature Communications

? Year: 2024

? Type: Journal

? Subtype: Article

? Citations: 5

? DOI: 10.1038/s41467-024-52486-0

? Scopus ID: 2-s2.0-85206872910

? eISSN: 20411723

? Volume: 15

? Issue: 1

? Authors: Nazerian Amirhossein; Hart Joseph D.; Lodi Matteo; Sorrentino Francesco

? Quartile:

2025:

? Physics and Astronomy (all) (Q1, rank 5, percentile 98)

? Multidisciplinary (Q1, rank 6, percentile 97)

? Biochemistry, Genetics and Molecular Biology (all) (Q1, rank 7, percentile 97)

? Chemistry (all) (Q1, rank 16, percentile 96)

2024:

? Multidisciplinary (Q1, rank 5, percentile 97)

? Biochemistry, Genetics and Molecular Biology (all) (Q1, rank 7, percentile 97)

? Physics and Astronomy (all) (Q1, rank 8, percentile 96)

? Chemistry (all) (Q1, rank 15, percentile 96)

? Source Id: 19700182758

? Author Ids: 57350145000;56785031400;57200266678;57203233721

? Authoraffiliationids: 60138187;60027271;60025153;60138187

? Corresponding: Nazerian A.

8.

? Title: Patterns of synchronized clusters in adaptive networks

? Venue: Communications Physics
? Year: 2024
? Type: Journal
? Subtype: Article
? Citations: 7
? DOI: 10.1038/s42005-024-01688-5
? Scopus ID: 2-s2.0-85196480826
? eISSN: 23993650
? Volume: 7
? Issue: 1
? Authors: Lodi Matteo; Panahi Shirin; Sorrentino Francesco; Torcini Alessandro; Storace Marco
? Quartile:
2025:
? Physics and Astronomy (all) (Q1, rank 30, percentile 88)
2024:
? Physics and Astronomy (all) (Q1, rank 30, percentile 88)
? Source Id: 21100924862
? Author Ids: 57200266678;57220564996;57203233721;56028770100;7004134087
? Authoraffiliationids:
60025153;60138187;60138187;60134716-60113687-60113678;60025153-60138187
? Corresponding: Lodi M.

9.

? Title: Design, realization and testing of a synthetic inertia controller for wind turbine power generators
? Venue: Sustainable Energy Grids and Networks
? Year: 2024
? Type: Journal
? Subtype: Article
? Citations: 7
? DOI: 10.1016/j.segan.2023.101234
? Scopus ID: 2-s2.0-85183574846
? eISSN: 23524677
? Volume: 38
? Authors: Bonfiglio Andrea; Lodi Matteo; Rosini Alessandro; Oliveri Alberto; Procopio Renato
? Keywords: FPGA | Synthetic inertia | Wind turbine generator
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 131, percentile 86)
? Control and Systems Engineering (Q1, rank 52, percentile 86)
? Energy Engineering and Power Technology (Q1, rank 63, percentile 80)
? Renewable Energy, Sustainability and the Environment (Q2, rank 90, percentile 71)
2024:
? Electrical and Electronic Engineering (Q1, rank 122, percentile 87)
? Control and Systems Engineering (Q1, rank 52, percentile 86)
? Energy Engineering and Power Technology (Q1, rank 53, percentile 82)
? Renewable Energy, Sustainability and the Environment (Q2, rank 77, percentile 74)
? Source Id: 21100371258
? Author Ids: 36607521000;57200266678;57204050700;57200399832;7801615894
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153
? Corresponding: Bonfiglio A.

10.

? Title: A Comparative Analysis of Different Virtual Inertia Controllers in Power Grids

with Renewable Energy Sources

? Venue: 2024 IEEE Workshop on Complexity in Engineering Compeng 2024

? Year: 2024

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1109/Compeng60905.2024.10741407

? Scopus ID: 2-s2.0-85212196186

? Authors: Ahmadimonfared Zahra; Lodi Matteo; Oliveri Alberto; Storace Marco

? Source Id: 21101264268

? Author Ids: 59474072200;57200266678;57200399832;7004134087

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Ahmadimonfared Z.

11.

? Title: Modeling the Effect of Air-Gap Length and Number of Turns on Ferrite-Core Inductors Working up to Magnetic Saturation in a Buck Converter

? Venue: IEEE Transactions on Circuits and Systems I Regular Papers

? Year: 2024

? Type: Journal

? Subtype: Article

? Citations: 5

? Doi: 10.1109/Tcsi.2024.3421261

? Scopus ID: 2-s2.0-85204943069

? Issn: 15498328

? eISSN: 15580806

? Volume: 71

? Issue: 12

? Pages: 5400-5409

? Authors: Ravera Alessandro; Formentini Andrea; Lodi Matteo; Oliveri Alberto; Passalacqua Massimiliano; Storace Marco

? Keywords: gapped ferrite core | magnetic saturation | nonlinear circuit model | Power inductor

? Quartile:

2025:

? Engineering (all) (Q1, rank 28, percentile 92)

2024:

? Engineering (all) (Q1, rank 24, percentile 93)

? Source Id: 11000153733

? Author Ids: 57214792545;55370605300;57200266678;57200399832;57195070159;7004134087

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153

? Corresponding: Ravera A.

12.

? Title: A nonlinear model of air-gapped ferrite-core inductors for SMPS applications

? Venue: Proceedings IEEE International Symposium on Circuits and Systems

? Year: 2024

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 1

? Doi: 10.1109/Isccas58744.2024.10558476

? Scopus ID: 2-s2.0-85198514654

? Issn: 02714310

? Authors: Ravera Alessandro; Formentini Andrea; Lodi Matteo; Oliveri Alberto; Storace Marco

? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

2024:

? Electrical and Electronic Engineering (Q3, rank 537, percentile 44)

? Source Id: 56190

? Author Ids: 57214792545;55370605300;57200266678;57200399832;7004134087

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153

? Corresponding: Ravera A.

13.

? Title: Optimization strategies to obtain smooth gait transitions through biologically plausible central pattern generators

? Venue: Physical Review E

? Year: 2024

? Type: Journal

? Subtype: Article

? Citations: 1

? DOI: 10.1103/PhysRevE.109.014404

? Scopus ID: 2-s2.0-85183455819

? Issn: 24700045

? eISSN: 24700053

? Volume: 109

? Issue: 1

? Authors: Baruzzi V.; Lodi M.; Storace M.

? Quartile:

2025:

? Statistics and Probability (Q1, rank 50, percentile 83)

? Statistical and Nonlinear Physics (Q2, rank 23, percentile 64)

? Condensed Matter Physics (Q2, rank 208, percentile 53)

2024:

? Statistics and Probability (Q1, rank 50, percentile 83)

? Statistical and Nonlinear Physics (Q2, rank 21, percentile 66)

? Condensed Matter Physics (Q2, rank 182, percentile 59)

? Source Id: 21100855841

? Author Ids: 57216455935;57200266678;7004134087

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Baruzzi V.

14.

? Title: Bridging functional and anatomical neural connectivity through cluster synchronization

? Venue: Scientific Reports

? Year: 2023

? Type: Journal

? Subtype: Article

? Citations: 7

? DOI: 10.1038/s41598-023-49746-2

? Scopus ID: 2-s2.0-85179978424

? eISSN: 20452322

? Volume: 13

? Issue: 1

? Authors: Baruzzi Valentina; Lodi Matteo; Sorrentino Francesco; Storace Marco

? Quartile:

2025:

? Multidisciplinary (Q1, rank 28, percentile 86)

2023:

- ? Multidisciplinary (Q1, rank 14, percentile 92)
? Source Id: 21100200805
? Author Ids: 57216455935;57200266678;57203233721;7004134087
? Authoraffiliationids: 60025153;60025153;60138187;60025153
? Corresponding: Baruzzi V.
- 15.
- ? Title: Co-Design of a Controller and Its Digital Implementation: The MOBY-DIC2
Toolbox for Embedded Model Predictive Control
? Venue: IEEE Transactions on Control Systems Technology
? Year: 2023
? Type: Journal
? Subtype: Article
? Citations: 5
? Doi: 10.1109/Tcst.2023.3254133
? Scopus ID: 2-s2.0-85151336066
? Issn: 10636536
? eISSN: 15580865
? Volume: 31
? Issue: 6
? Pages: 2871-2878
? Authors: Ravera Alessandro; Oliveri Alberto; Lodi Matteo; Bemporad Alberto; Heemels
W. P.M.H.; Kerrigan Eric C.; Storace Marco
? Keywords: Embedded model predictive control (MPC) | field programmable gate array
(FPGA) | hardware-software co-design
? Quartile:
2025:
? Control and Systems Engineering (Q1, rank 34, percentile 91)
? Electrical and Electronic Engineering (Q1, rank 96, percentile 90)
2023:
? Control and Systems Engineering (Q1, rank 31, percentile 90)
? Electrical and Electronic Engineering (Q1, rank 82, percentile 89)
? Source Id: 17342
? Author Ids:
57214792545;57200399832;57200266678;7005030586;7004095044;57200653945;7004134087
? Authoraffiliationids: 60025153;60025153;60025153;60102060;60032882;60015150;60025153
? Corresponding: Ravera A.
- 16.
- ? Title: Use of a Partially Saturating Inductor in a Boost Converter with Model
Predictive Control
? Venue: Electronics Switzerland
? Year: 2023
? Type: Journal
? Subtype: Article
? Citations: 6
? DOI: 10.3390/electronics12143013
? Scopus ID: 2-s2.0-85166222674
? eISSN: 20799292
? Volume: 12
? Issue: 14
? Authors: Firpo Pietro; Ravera Alessandro; Oliveri Alberto; Lodi Matteo; Storace Marco
? Keywords: magnetic saturation | nonlinear model predictive control | switched mode
power supply
? Quartile:
2025:

? Signal Processing (Q1, rank 36, percentile 81)
? Electrical and Electronic Engineering (Q1, rank 220, percentile 78)
? Control and Systems Engineering (Q1, rank 91, percentile 76)
? Computer Networks and Communications (Q1, rank 131, percentile 76)
? Hardware and Architecture (Q2, rank 62, percentile 73)

2023:

? Control and Systems Engineering (Q2, rank 94, percentile 70)
? Electrical and Electronic Engineering (Q2, rank 244, percentile 69)
? Computer Networks and Communications (Q2, rank 139, percentile 64)
? Hardware and Architecture (Q2, rank 64, percentile 64)
? Signal Processing (Q2, rank 49, percentile 62)

? Source Id: 21100829272

? Author Ids: 58512300500;57214792545;57200399832;57200266678;7004134087

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153

? Corresponding: Firpo P.

17.

? Title: Stability Analysis of the Synchronous Solution in Arrays of Memristive Chua's Circuits

? Venue: IEEE Transactions on Circuits and Systems II Express Briefs

? Year: 2023

? Type: Journal

? Subtype: Article

? Citations: 4

? Doi: 10.1109/Tcsii.2023.3259008

? Scopus ID: 2-s2.0-85151544305

? Issn: 15497747

? eISSN: 15583791

? Volume: 70

? Issue: 5

? Pages: 1694-1698

? Authors: Lodi Matteo; Forti Mauro; Storace Marco

? Keywords: Chua's circuit | master stability function | memristor | synchronization

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 97, percentile 90)

2023:

? Electrical and Electronic Engineering (Q1, rank 137, percentile 82)

? Source Id: 9500153930

? Author Ids: 57200266678;7006515448;7004134087

? Authoraffiliationids: 60025153;60002838;60025153

? Corresponding: Lodi M.

18.

? Title: MADS-based fast FPGA implementation of nonlinear model predictive control

? Venue: Proceedings IEEE International Symposium on Circuits and Systems

? Year: 2023

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 4

? Doi: 10.1109/iscas46773.2023.10181647

? Scopus ID: 2-s2.0-85166261084

? Issn: 02714310

? Volume: 2023-May

? Authors: Ravera Alessandro; Oliveri Alberto; Lodi Matteo; Storace Marco

? Keywords: FPGA | mesh adaptive direct search | nonlinear model predictive control

? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)
2023:
? Electrical and Electronic Engineering (Q3, rank 496, percentile 37)
? Source Id: 56190
? Author Ids: 57214792545;57200399832;57200266678;7004134087
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Ravera A.

19.

? Title: A nonlinear behavioral model of a ferrite-core inductor with fixed-frequency sinusoidal voltage input
? Venue: Eurocon 2023 20th International Conference on Smart Technologies Proceedings
? Year: 2023
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 8
? Doi: 10.1109/Eurocon56442.2023.10199021
? Scopus ID: 2-s2.0-85166236237
? Pages: 418-422
? Authors: Ravera Alessandro; Oliveri Alberto; Lodi Matteo; Storace Marco
? Source Id: 21101173014
? Author Ids: 57214792545;57200399832;57200266678;7004134087
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Ravera A.

20.

? Title: Embedded Implementation of an Algorithm for Online Inertia Estimation in Power Grids
? Venue: Lecture Notes in Networks and Systems
? Year: 2023
? Type: Book Series
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1007/978-3-031-16281-7_9
? Scopus ID: 2-s2.0-85137974665
? Issn: 23673370
? eISSN: 23673389
? Volume: 546 Lnns
? Pages: 84-94
? Authors: Ravera Alessandro; Baruzzi Valentina; Lodi Matteo; Oliveri Alberto; Storace Marco
? Keywords: Inertia estimation | Microcontroller | Renewable energy sources
? Quartile:
2025:
? Signal Processing (Q3, rank 146, percentile 25)
? Computer Networks and Communications (Q3, rank 410, percentile 25)
? Control and Systems Engineering (Q4, rank 302, percentile 20)
2023:
? Signal Processing (Q4, rank 113, percentile 14)
? Control and Systems Engineering (Q4, rank 277, percentile 13)
? Computer Networks and Communications (Q4, rank 354, percentile 10)
? Source Id: 21100901469
? Author Ids: 57214792545;57216455935;57200266678;57200399832;7004134087
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153

? Corresponding: Ravera A.

21.

? Title: Pinning control of networks: Dimensionality reduction through simultaneous block-diagonalization of matrices

? Venue: Chaos

? Year: 2022

? Type: Journal

? Subtype: Article

? Citations: 3

? Doi: 10.1063/5.0090095

? Scopus ID: 2-s2.0-85143184341

? Issn: 10541500

? eISSN: 10897682

? Volume: 32

? Issue: 11

? Authors: Panahi Shirin; Lodi Matteo; Storace Marco; Sorrentino Francesco

? Quartile:

2025:

? Mathematical Physics (Q1, rank 9, percentile 90)

? Applied Mathematics (Q1, rank 97, percentile 85)

? Statistical and Nonlinear Physics (Q1, rank 13, percentile 80)

? Engineering (all) (Q1, rank 84, percentile 75)

? Physics and Astronomy (all) (Q1, rank 62, percentile 75)

2022:

? Mathematical Physics (Q1, rank 5, percentile 94)

? Applied Mathematics (Q1, rank 59, percentile 90)

? Statistical and Nonlinear Physics (Q1, rank 8, percentile 86)

? Physics and Astronomy (all) (Q1, rank 50, percentile 79)

? Source Id: 27430

? Author Ids: 57220564996;57200266678;7004134087;57203233721

? Authoraffiliationids: 60138187;60025153;60025153;60138187

? Corresponding: Panahi S.

22.

? Title: Behavioral model of an amorphous-core inductor working up to partial saturation

? Venue: Proceedings IEEE International Symposium on Circuits and Systems

? Year: 2022

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 6

? Doi: 10.1109/IsCAS48785.2022.9937208

? Scopus ID: 2-s2.0-85142507089

? Issn: 02714310

? Volume: 2022-May

? Pages: 1522-1526

? Authors: Oliveri Alberto; Lodi Matteo; Beatrice Cinzia; Ferrara Enzo; Storace Marco; Fiorillo Fausto

? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

2022:

? Electrical and Electronic Engineering (Q3, rank 476, percentile 35)

? Source Id: 56190

? Author Ids: 57200399832;57200266678;7004523868;56211874000;7004134087;7006013405

? Authoraffiliationids: 60025153;60025153;60073835;60073835;60025153;60073835
? Corresponding: Oliveri A.

23.

? Title: Forget partitions? Not yet...
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1109/IsCAS48785.2022.9937604
? Scopus ID: 2-s2.0-85142479468
? Issn: 02714310
? Volume: 2022-May
? Pages: 1531-1535
? Authors: Lodi Matteo; Sorrentino Francesco; Storace Marco
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)
2022:
? Electrical and Electronic Engineering (Q3, rank 476, percentile 35)
? Source Id: 56190
? Author Ids: 57200266678;57203233721;7004134087
? Authoraffiliationids: 60025153;60138187;60025153
? Corresponding: Lodi M.

24.

? Title: Estimation of inertia in power grids with turbine governors
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2022
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? Doi: 10.1109/IsCAS48785.2022.9937504
? Scopus ID: 2-s2.0-85133619628
? Issn: 02714310
? Volume: 2022-May
? Pages: 819-823
? Authors: Baruzzi Valentina; Lodi Matteo; Oliveri Alberto; Storace Marco
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)
2022:
? Electrical and Electronic Engineering (Q3, rank 476, percentile 35)
? Source Id: 56190
? Author Ids: 57216455935;57200266678;57200399832;7004134087
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Baruzzi V.

25.

? Title: Nonlinear models of power inductors: A survey
? Venue: International Journal of Circuit Theory and Applications
? Year: 2022
? Type: Journal
? Subtype: Article
? Citations: 35
? DOI: 10.1002/cta.3147

- ? Scopus ID: 2-s2.0-85116803994
? Issn: 00989886
? eISSN: 1097007X
? Volume: 50
? Issue: 1
? Pages: 2-34
? Authors: Oliveri Alberto; Lodi Matteo; Storace Marco
? Quartile:
2025:
? Applied Mathematics (Q2, rank 183, percentile 72)
? Electrical and Electronic Engineering (Q2, rank 422, percentile 57)
? Computer Science Applications (Q2, rank 471, percentile 52)
? Electronic, Optical and Magnetic Materials (Q3, rank 170, percentile 45)
2022:
? Applied Mathematics (Q1, rank 145, percentile 76)
? Computer Science Applications (Q2, rank 361, percentile 54)
? Electrical and Electronic Engineering (Q2, rank 337, percentile 54)
? Electronic, Optical and Magnetic Materials (Q3, rank 143, percentile 47)
? Source Id: 17963
? Author Ids: 57200399832;57200266678;7004134087
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Oliveri A.
26.
? Title: Towards more biologically plausible central-pattern-generator models
? Venue: Physical Review E
? Year: 2021
? Type: Journal
? Subtype: Article
? Citations: 8
? DOI: 10.1103/PhysRevE.104.064405
? Scopus ID: 2-s2.0-85121654542
? Issn: 24700045
? eISSN: 24700053
? Volume: 104
? Issue: 6
? Authors: Baruzzi V.; Lodi M.; Storace M.; Shilnikov A.
? Quartile:
2025:
? Statistics and Probability (Q1, rank 50, percentile 83)
? Statistical and Nonlinear Physics (Q2, rank 23, percentile 64)
? Condensed Matter Physics (Q2, rank 208, percentile 53)
2021:
? Statistics and Probability (Q1, rank 29, percentile 88)
? Statistical and Nonlinear Physics (Q1, rank 9, percentile 83)
? Condensed Matter Physics (Q2, rank 142, percentile 65)
? Source Id: 21100855841
? Author Ids: 57216455935;57200266678;7004134087;6602635628
? Authoraffiliationids: 60025153;60025153;60025153;60012387
? Corresponding: Baruzzi V.
27.
? Title: One-way dependent clusters and stability of cluster synchronization in directed networks
? Venue: Nature Communications
? Year: 2021

? Type: Journal
? Subtype: Article
? Citations: 32
? DOI: 10.1038/s41467-021-24363-7
? Scopus ID: 2-s2.0-85109152543
? eISSN: 20411723
? Volume: 12
? Issue: 1
? Authors: Lodi Matteo; Sorrentino Francesco; Storace Marco
? Quartile:
2025:
? Physics and Astronomy (all) (Q1, rank 5, percentile 98)
? Multidisciplinary (Q1, rank 6, percentile 97)
? Biochemistry, Genetics and Molecular Biology (all) (Q1, rank 7, percentile 97)
? Chemistry (all) (Q1, rank 16, percentile 96)
2021:
? Multidisciplinary (Q1, rank 3, percentile 97)
? Biochemistry, Genetics and Molecular Biology (all) (Q1, rank 5, percentile 97)
? Chemistry (all) (Q1, rank 14, percentile 96)
? Physics and Astronomy (all) (Q1, rank 10, percentile 96)
? Source Id: 19700182758
? Author Ids: 57200266678;57203233721;7004134087
? Authoraffiliationids: 60025153;60138187;60025153
? Corresponding: Lodi M.

28.

? Title: A Microwave Imaging Technique for Neck Diseases Monitoring
? Venue: 15th European Conference on Antennas and Propagation Eucap 2021
? Year: 2021
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 1
? DOI: 10.23919/EuCAP51087.2021.9411191
? Scopus ID: 2-s2.0-85105519543
? Authors: Dachena Chiara; Fedeli Alessandro; Fanti Alessandro; Lodi Matteo B.; Pastorino Matteo; Randazzo Andrea
? Keywords: Cervical disease | hybrid inversion approach | microwave imaging
? Source Id: 21101044864
? Author Ids: 57206901870;55512997500;36664325500;57200266678;7004880389;7006280562
? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153;60025153
? Corresponding: Dachena C.

29.

? Title: Analysis and improvement of an algorithm for the online inertia estimation in power grids with RES
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2021
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 13
? Doi: 10.1109/iscas51556.2021.9401229
? Scopus ID: 2-s2.0-85109025103
? Issn: 02714310
? Volume: 2021-May
? Authors: Baruzzi Valentina; Lodi Matteo; Oliveri Alberto; Storace Marco
? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

2021:

? Electrical and Electronic Engineering (Q3, rank 419, percentile 40)

? Source Id: 56190

? Author Ids: 57216455935;57200266678;57200399832;7004134087

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Baruzzi V.

30.

? Title: Delays induced cluster synchronization in chaotic networks

? Venue: Chaos

? Year: 2020

? Type: Journal

? Subtype: Article

? Citations: 1

? Doi: 10.1063/5.0030720

? Scopus ID: 2-s2.0-85097445752

? Issn: 10541500

? eISSN: 10897682

? Volume: 30

? Issue: 12

? Authors: Nathe Chad; Huang Ke; Lodi Matteo; Storace Marco; Sorrentino Francesco

? Quartile:

2025:

? Mathematical Physics (Q1, rank 9, percentile 90)

? Applied Mathematics (Q1, rank 97, percentile 85)

? Statistical and Nonlinear Physics (Q1, rank 13, percentile 80)

? Engineering (all) (Q1, rank 84, percentile 75)

? Physics and Astronomy (all) (Q1, rank 62, percentile 75)

2020:

? Mathematical Physics (Q1, rank 2, percentile 97)

? Applied Mathematics (Q1, rank 52, percentile 90)

? Statistical and Nonlinear Physics (Q1, rank 5, percentile 90)

? Physics and Astronomy (all) (Q1, rank 43, percentile 81)

? Source Id: 27430

? Author Ids: 57220578856;57194202388;57200266678;7004134087;57203233721

? Authoraffiliationids: 60138187;60138187;60025153;60025153;60138187

? Corresponding: Nathe C.

31.

? Title: Analyzing synchronized clusters in neuron networks

? Venue: Scientific Reports

? Year: 2020

? Type: Journal

? Subtype: Article

? Citations: 28

? DOI: 10.1038/s41598-020-73269-9

? Scopus ID: 2-s2.0-85091735733

? eISSN: 20452322

? Volume: 10

? Issue: 1

? Authors: Lodi Matteo; Della Rossa Fabio; Sorrentino Francesco; Storace Marco

? Quartile:

2025:

? Multidisciplinary (Q1, rank 28, percentile 86)

2020:

? Multidisciplinary (Q1, rank 8, percentile 93)

? Source Id: 21100200805

? Author Ids: 57200266678;37123718500;57203233721;7004134087

? Authoraffiliationids: 60025153;60138187-60023256;60138187;60025153

? Corresponding: Lodi M.

32.

? Title: Generalized half-center oscillators with short-term synaptic plasticity

? Venue: Physical Review E

? Year: 2020

? Type: Journal

? Subtype: Article

? Citations: 11

? DOI: 10.1103/PhysRevE.102.032406

? Scopus ID: 2-s2.0-85093911265

? Issn: 24700045

? eISSN: 24700053

? Volume: 102

? Issue: 3

? Authors: Baruzzi V.; Lodi M.; Storace M.; Shilnikov A.

? Quartile:

2025:

? Statistics and Probability (Q1, rank 50, percentile 83)

? Statistical and Nonlinear Physics (Q2, rank 23, percentile 64)

? Condensed Matter Physics (Q2, rank 208, percentile 53)

2020:

? Statistics and Probability (Q1, rank 29, percentile 88)

? Statistical and Nonlinear Physics (Q1, rank 6, percentile 87)

? Condensed Matter Physics (Q2, rank 130, percentile 68)

? Source Id: 21100855841

? Author Ids: 57216455935;57200266678;7004134087;6602635628

? Authoraffiliationids: 60025153;60025153;60025153;60012387

? Corresponding: Baruzzi V.

33.

? Title: Design Principles for Central Pattern Generators with Preset Rhythms

? Venue: IEEE Transactions on Neural Networks and Learning Systems

? Year: 2020

? Type: Journal

? Subtype: Article

? Citations: 37

? Doi: 10.1109/Tnnls.2019.2945637

? Scopus ID: 2-s2.0-85087102389

? Issn: 2162237x

? eISSN: 21622388

? Volume: 31

? Issue: 9

? Pages: 3658-3669

? Authors: Lodi Matteo; Shilnikov Andrey L.; Storace Marco

? Keywords: Bifurcation analysis | central pattern generators | neuronal models | parameter optimization

? Quartile:

2025:

? Computer Networks and Communications (Q1, rank 9, percentile 98)

? Computer Science Applications (Q1, rank 18, percentile 98)

? Software (Q1, rank 13, percentile 97)
? Artificial Intelligence (Q1, rank 19, percentile 96)
2020:
? Computer Networks and Communications (Q1, rank 3, percentile 99)
? Computer Science Applications (Q1, rank 8, percentile 98)
? Artificial Intelligence (Q1, rank 5, percentile 98)
? Software (Q1, rank 9, percentile 97)
? Source Id: 21100235616
? Author Ids: 57200266678;6602635628;7004134087
? Authoraffiliationids: 60025153;60012387;60025153
? Corresponding: Lodi M.

34.

? Title: Online estimation of the current ripple on a saturating ferrite-core inductor in a boost converter
? Venue: Sensors Switzerland
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 7
? DOI: 10.3390/s20102921
? Scopus ID: 2-s2.0-85085270959
? Issn: 14248220
? Volume: 20
? Issue: 10
? Authors: Lodi Matteo; Oliveri Alberto
? Keywords: Ferrite-core inductor | Magnetic saturation | Microcontroller | Nonlinear observer | Switch-mode power supply
? Quartile:
2025:
? Instrumentation (Q1, rank 19, percentile 90)
? Electrical and Electronic Engineering (Q1, rank 136, percentile 86)
? Atomic and Molecular Physics, and Optics (Q1, rank 36, percentile 85)
? Biochemistry (Q1, rank 72, percentile 84)
? Information Systems (Q1, rank 87, percentile 82)
? Analytical Chemistry (Q1, rank 30, percentile 82)
2020:
? Instrumentation (Q1, rank 13, percentile 90)
? Electrical and Electronic Engineering (Q1, rank 135, percentile 80)
? Information Systems (Q1, rank 69, percentile 79)
? Atomic and Molecular Physics, and Optics (Q1, rank 42, percentile 78)
? Analytical Chemistry (Q1, rank 29, percentile 76)
? Biochemistry (Q2, rank 133, percentile 67)
? Source Id: 130124
? Author Ids: 57200266678;57200399832
? Authoraffiliationids: 60025153;60025153
? Corresponding: Lodi M.

35.

? Title: A Nonlinear Behavioral Ferrite-Core Inductance Model Able to Reproduce Thermal Transients in Switch-Mode Power Supplies
? Venue: IEEE Transactions on Circuits and Systems I Regular Papers
? Year: 2020
? Type: Journal
? Subtype: Article
? Citations: 14

? Doi: 10.1109/Tcsi.2020.2965645
? Scopus ID: 2-s2.0-85082883785
? Issn: 15498328
? eISSN: 15580806
? Volume: 67
? Issue: 4
? Pages: 1255-1263
? Authors: Lodi Matteo; Bizzarri Federico; Linaro Daniele; Oliveri Alberto; Brambilla Angelo; Storace Marco
? Keywords: Behavioral nonlinear model | magnetic saturation | power loss
? Quartile:
2025:
? Engineering (all) (Q1, rank 28, percentile 92)
2020:
? Subject (Q1, rank 106, percentile 84)
? Source Id: 11000153733
? Author Ids: 57200266678;15734590800;24587496200;57200399832;7103297302;7004134087
? Authoraffiliationids: 60025153;60023256;60023256;60025153;60023256;60025153
? Corresponding: Lodi M.

36.

? Title: Effects of parameter variation on the accuracy of a nonlinear inductor model for switch-mode power supplies applications
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2020
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Scopus ID: 2-s2.0-85109258762
? Issn: 02714310
? Volume: 2020-October
? Authors: Lodi Matteo; Oliveri Alberto; Storace Marco
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)
2020:
? Electrical and Electronic Engineering (Q2, rank 345, percentile 50)
? Source Id: 56190
? Author Ids: 57200266678;57200399832;7004134087
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Lodi M.

37.

? Title: An algorithm for finding equitable clusters in multi-layer networks
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2020
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 5
? Scopus ID: 2-s2.0-85091795172
? Issn: 02714310
? Volume: 2020-October
? Authors: Lodi Matteo; Rossa Fabio Della; Sorrentino Francesco; Storace Marco
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

2020:

? Electrical and Electronic Engineering (Q2, rank 345, percentile 50)

? Source Id: 56190

? Author Ids: 57200266678;37123718500;57203233721;7004134087

? Authoraffiliationids: 60025153;60023256;60138187;60025153

? Corresponding: Lodi M.

38.

? Title: Embedded linear model predictive control through mesh adaptive direct search algorithm

? Venue: 2019 26th IEEE International Conference on Electronics Circuits and Systems Icecs 2019

? Year: 2019

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 4

? Doi: 10.1109/Icecs46596.2019.8964821

? Scopus ID: 2-s2.0-85079170519

? Pages: 542-545

? Authors: Ravera Alessandro; Oliveri Alberto; Lodi Matteo; Storace Marco

? Source Id: 21100944554

? Author Ids: 57214792545;57200399832;57200266678;7004134087

? Authoraffiliationids: 60025153;60025153;60025153;60025153

? Corresponding: Ravera A.

39.

? Title: A low-cost online estimator for switch-mode power supplies with saturating ferrite-core inductors

? Venue: 2019 26th IEEE International Conference on Electronics Circuits and Systems Icecs 2019

? Year: 2019

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 3

? Doi: 10.1109/Icecs46596.2019.8964684

? Scopus ID: 2-s2.0-85079166716

? Pages: 851-854

? Authors: Lodi Matteo; Oliveri Alberto; Storace Marco

? Source Id: 21100944554

? Author Ids: 57200266678;57200399832;7004134087

? Authoraffiliationids: 60025153;60025153;60025153

? Corresponding: Lodi M.

40.

? Title: Model-based compensation of rate-dependent hysteresis in a piezoresistive strain sensor

? Venue: IEEE Transactions on Industrial Electronics

? Year: 2019

? Type: Journal

? Subtype: Article

? Citations: 41

? Doi: 10.1109/Tie.2018.2884204

? Scopus ID: 2-s2.0-85058153566

? Issn: 02780046

? Volume: 66

? Issue: 10

? Pages: 8205-8213

? Authors: Oliveri Alberto; Maselli Martina; Lodi Matteo; Storace Marco; Cianchetti Matteo
? Keywords: Conductive textile | hysteresis compensation | piezoresistive strain sensor | rate-dependent hysteresis
? Quartile:
2025:
? Electrical and Electronic Engineering (Q1, rank 33, percentile 96)
? Control and Systems Engineering (Q1, rank 17, percentile 95)
2019:
? Control and Systems Engineering (Q1, rank 3, percentile 98)
? Electrical and Electronic Engineering (Q1, rank 13, percentile 98)
? Source Id: 26053
? Author Ids: 57200399832;57195724094;57200266678;7004134087;23388237000
? Authoraffiliationids: 60025153;60028039;60025153;60025153;60028039
? Corresponding: Oliveri A.

41.

? Title: Pareto-optimal selection of saturating inductors in the design of switch-mode power supplies
? Venue: 2019 21st European Conference on Power Electronics and Applications EPE 2019 Ecce Europe
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 3
? Doi: 10.23919/Epe.2019.8915549
? Scopus ID: 2-s2.0-85076670272
? Authors: Lodi Matteo; Oliveri Alberto; Storace Marco
? Keywords: Design | Modelling | Switched-mode power supply
? Source Id: 21100939561
? Author Ids: 57200266678;57200399832;7004134087
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Lodi M.

42.

? Title: Behavioral Models for Ferrite-Core Inductors in Switch-Mode DC-DC Power Supplies: A Survey
? Venue: 5th International Forum on Research and Technologies for Society and Industry Innovation to Shape the Future Rtsi 2019 Proceedings
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 14
? Doi: 10.1109/Rtsi.2019.8895593
? Scopus ID: 2-s2.0-85075639485
? Pages: 242-247
? Authors: Lodi Matteo; Oliveri Alberto; Storace Marco
? Source Id: 21100936629
? Author Ids: 57200266678;57200399832;7004134087
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Lodi M.

43.

? Title: A Piecewise-Affine Inductance Model for Inductors Working in Nonlinear Region
? Venue: Smacd 2019 16th International Conference on Synthesis Modeling Analysis and Simulation Methods and Applications to Circuit Design Proceedings
? Year: 2019

? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 12
? Doi: 10.1109/Smacd.2019.8795270
? Scopus ID: 2-s2.0-85071587532
? Pages: 169-172
? Authors: Oliveri Alberto; Lodi Matteo; Storace Marco
? Source Id: 21100926610
? Author Ids: 57200399832;57200266678;7004134087
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Oliveri A.

44.

? Title: A power-loss-dependent inductance model for ferrite-core power inductors in switch-mode power supplies
? Venue: IEEE Transactions on Circuits and Systems I Regular Papers
? Year: 2019
? Type: Journal
? Subtype: Article
? Citations: 43
? Doi: 10.1109/Tcsi.2018.2889856
? Scopus ID: 2-s2.0-85064392033
? Issn: 15498328
? eISSN: 15580806
? Volume: 66
? Issue: 6
? Pages: 2394-2402
? Authors: Oliveri Alberto; Di Capua Giulia; Stoyka Kateryna; Lodi Matteo; Storace Marco; Femia Nicola
? Keywords: Behavioral nonlinear model | high power density | magnetic saturation | power loss
? Quartile:
2025:
? Engineering (all) (Q1, rank 28, percentile 92)
2019:
? Subject (Q1, rank 105, percentile 84)
? Source Id: 11000153733
? Author Ids: 57200399832;36559098800;56997468600;57200266678;7004134087;7003881642
? Authoraffiliationids: 60025153;60007061;60007061;60025153;60025153;60007061
? Corresponding: Oliveri A.

45.

? Title: A toolchain for open-loop compensation of hysteresis and creep in atomic force microscopes
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2019
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 0
? Doi: 10.1109/Isacas.2019.8702537
? Scopus ID: 2-s2.0-85066800398
? Issn: 02714310
? Volume: 2019-May
? Authors: Oliveri Alberto; Raiteri Roberto; Lodi Matteo; Storace Marco
? Quartile:
2025:

? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

2019:

? Electrical and Electronic Engineering (Q3, rank 388, percentile 42)

? Source Id: 56190

? Author Ids: 57200399832;7005989160;57200266678;7004134087

? Authoraffiliationids: 60121711;60121711-60021199;60121711;60121711

? Corresponding: Oliveri A.

46.

? Title: A nonlinear inductance model able to reproduce thermal transient in SMPS simulations

? Venue: Proceedings IEEE International Symposium on Circuits and Systems

? Year: 2019

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 19

? Doi: 10.1109/IsCAS.2019.8702418

? Scopus ID: 2-s2.0-85066794294

? Issn: 02714310

? Volume: 2019-May

? Authors: Bizzarri Federico; Lodi Matteo; Oliveri Alberto; Brambilla Angelo; Storace Marco

? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

2019:

? Electrical and Electronic Engineering (Q3, rank 388, percentile 42)

? Source Id: 56190

? Author Ids: 15734590800;57200266678;57200399832;7103297302;7004134087

? Authoraffiliationids: 60025153;60025153;60025153;60023256;60025153

? Corresponding: Bizzarri F.

47.

? Title: Digital architecture to realize programmable central pattern generators producing multiple gaits

? Venue: Proceedings IEEE International Symposium on Circuits and Systems

? Year: 2019

? Type: Conference Proceeding

? Subtype: Conference Paper

? Citations: 0

? Doi: 10.1109/IsCAS.2019.8702635

? Scopus ID: 2-s2.0-85066782661

? Issn: 02714310

? Volume: 2019-May

? Authors: Lodi Matteo; Shilnikov Andrey; Storace Marco

? Quartile:

2025:

? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)

2019:

? Electrical and Electronic Engineering (Q3, rank 388, percentile 42)

? Source Id: 56190

? Author Ids: 57200266678;6602635628;7004134087

? Authoraffiliationids: 60025153;60012387;60025153

? Corresponding: Lodi M.

48.

? Title: Application of a low-cost piezoelectric displacement estimation technique

based on laser interferometry for hysteresis open-loop compensation in an AFM scanner

? Venue: Physica B Condensed Matter

? Year: 2018

? Type: Journal

? Subtype: Article

? Citations: 3

? DOI: 10.1016/j.physb.2017.09.067

? Scopus ID: 2-s2.0-85029740926

? Issn: 09214526

? Volume: 549

? Pages: 43-46

? Authors: Oliveri Alberto; Lodi Matteo; Storace Marco; Raiteri Roberto

? Keywords: AFM | Hysteresis | Interferometry

? Quartile:

2025:

? Electrical and Electronic Engineering (Q2, rank 304, percentile 69)

? Condensed Matter Physics (Q2, rank 152, percentile 66)

? Electronic, Optical and Magnetic Materials (Q2, rank 117, percentile 62)

2018:

? Electrical and Electronic Engineering (Q2, rank 261, percentile 61)

? Condensed Matter Physics (Q2, rank 191, percentile 52)

? Electronic, Optical and Magnetic Materials (Q2, rank 110, percentile 51)

? Source Id: 29118

? Author Ids: 57200399832;57200266678;7004134087;7005989160

? Authoraffiliationids: 60025153;60025153;60025153;60025153-60021199

? Corresponding: Oliveri A.

49.

? Title: Model Reduction for Optimized Online Compensation of Hysteresis and Creep in Piezoelectric Actuators

? Venue: IEEE Transactions on Circuits and Systems II Express Briefs

? Year: 2018

? Type: Journal

? Subtype: Article

? Citations: 13

? Doi: 10.1109/Tcsii.2017.2767287

? Scopus ID: 2-s2.0-85032723969

? Issn: 15497747

? eISSN: 15583791

? Volume: 65

? Issue: 11

? Pages: 1748-1752

? Authors: Oliveri Alberto; Lodi Matteo; Parodi Mauro; Stellino Flavio; Storace Marco

? Keywords: Hysteresis and creep model | open-loop compensation | parameters identification | piezoelectric actuators

? Quartile:

2025:

? Electrical and Electronic Engineering (Q1, rank 97, percentile 90)

2018:

? Electrical and Electronic Engineering (Q1, rank 137, percentile 79)

? Source Id: 9500153930

? Author Ids: 57200399832;57200266678;35508934400;56613350900;7004134087

? Authoraffiliationids: 60025153;60025153;60025153;60025153;60025153

? Corresponding: Oliveri A.

50.

? Title: Accurate Modeling of Inductors Working in Nonlinear Region in Switch-Mode Power Supplies with Different Load Currents
? Venue: Smacd 2018 15th International Conference on Synthesis Modeling Analysis and Simulation Methods and Applications to Circuit Design
? Year: 2018
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 23
? Doi: 10.1109/Smacd.2018.8434871
? Scopus ID: 2-s2.0-85052508662
? Pages: 233-236
? Authors: Oliveri Alberto; Lodi Matteo; Storace Marco
? Source Id: 21100875437
? Author Ids: 57200399832;57200266678;7004134087
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Oliveri A.

51.

? Title: Modeling and compensation of hysteresis and creep: The HysTool toolbox
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2018
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 3
? Doi: 10.1109/IsCAS.2018.8351866
? Scopus ID: 2-s2.0-85057107170
? Issn: 02714310
? Volume: 2018-May
? Authors: Oliveri Alberto; Lodi Matteo; Stellino Flavio; Storace Marco
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)
2018:
? Electrical and Electronic Engineering (Q3, rank 382, percentile 42)
? Source Id: 56190
? Author Ids: 57200399832;57200266678;56613350900;7004134087
? Authoraffiliationids: 60025153;60025153;60025153;60025153
? Corresponding: Oliveri A.

52.

? Title: Design of Minimal Synthetic Circuits with Sensory Feedback for Quadruped Locomotion
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2018
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 2
? Doi: 10.1109/IsCAS.2018.8351015
? Scopus ID: 2-s2.0-85057090066
? Issn: 02714310
? Volume: 2018-May
? Authors: Lodi Matteo; Shilnikov Andrey; Storace Marco
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)
2018:

? Electrical and Electronic Engineering (Q3, rank 382, percentile 42)
? Source Id: 56190
? Author Ids: 57200266678;6602635628;7004134087
? Authoraffiliationids: 60025153;60012387;60025153
? Corresponding: Lodi M.

53.

? Title: Design of Synthetic Central Pattern Generators Producing Desired Quadruped Gaits
? Venue: IEEE Transactions on Circuits and Systems I Regular Papers
? Year: 2018
? Type: Journal
? Subtype: Article
? Citations: 16
? Doi: 10.1109/Tcsi.2017.2759320
? Scopus ID: 2-s2.0-85032454621
? Issn: 15498328
? eISSN: 15580806
? Volume: 65
? Issue: 3
? Pages: 1028-1039
? Authors: Lodi Matteo; Shilnikov Andrey; Storace Marco
? Keywords: bifurcation analysis | Central pattern generators | dynamical systems
? Quartile:
2025:
? Engineering (all) (Q1, rank 28, percentile 92)
2018:
? Subject (Q1, rank 87, percentile 87)
? Source Id: 11000153733
? Author Ids: 57200266678;6602635628;7004134087
? Authoraffiliationids: 60025153;60012387;60025153
? Corresponding: Lodi M.

54.

? Title: High-speed explicit nonlinear model predictive control
? Venue: 2017 European Conference on Circuit Theory and Design Ecctd 2017
? Year: 2017
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 3
? Doi: 10.1109/Ecctd.2017.8093239
? Scopus ID: 2-s2.0-85039915128
? Authors: Oliveri Alberto; Lodi Matteo; Storace Marco
? Source Id: 21100844807
? Author Ids: 57200399832;57200266678;7004134087
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Oliveri A.

55.

? Title: A low-cost free-space optical communication prototype
? Venue: Proceedings 2017 1st New Generation of CAS Ngcas 2017
? Year: 2017
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 3
? Doi: 10.1109/Ngcas.2017.20
? Scopus ID: 2-s2.0-85034417836

? Pages: 153-156
? Authors: Oliveri Alberto; Lodi Matteo
? Keywords: Microcontroller | Prototype | Underwater optical communication
? Source Id: 21100838549
? Author Ids: 57200399832;57200266678
? Authoraffiliationids: 60025153;60025153
? Corresponding: Oliveri A.

56.

? Title: CEPAGE: A toolbox for Central Pattern Generator analysis
? Venue: Proceedings IEEE International Symposium on Circuits and Systems
? Year: 2017
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 11
? Doi: 10.1109/IsCAS.2017.8050580
? Scopus ID: 2-s2.0-85032690058
? Issn: 02714310
? Authors: Lodi Matteo; Shilnikov Andrey; Storace Marco
? Quartile:
2025:
? Electrical and Electronic Engineering (Q3, rank 652, percentile 34)
2017:
? Electrical and Electronic Engineering (Q3, rank 366, percentile 45)
? Source Id: 56190
? Author Ids: 57200266678;6602635628;7004134087
? Authoraffiliationids: 60025153;60012387;60025153
? Corresponding: Lodi M.

57.

? Title: Low-cost acquisition method for on-line inductor characterization in switched power converters
? Venue: Smacd 2017 14th International Conference on Synthesis Modeling Analysis and Simulation Methods and Applications to Circuit Design
? Year: 2017
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 4
? Doi: 10.1109/Smacd.2017.7981617
? Scopus ID: 2-s2.0-85027492656
? Authors: Lodi Matteo; Oliveri Alberto; Storace Marco
? Source Id: 21100827202
? Author Ids: 57200266678;57200399832;7004134087
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Lodi M.

58.

? Title: Ferrite inductor models for switch-mode power supplies analysis and design
? Venue: Smacd 2017 14th International Conference on Synthesis Modeling Analysis and Simulation Methods and Applications to Circuit Design
? Year: 2017
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 27
? Doi: 10.1109/Smacd.2017.7981622
? Scopus ID: 2-s2.0-85027491880
? Authors: Di Capua G.; Femia N.; Stoyka K.; Lodi M.; Oliveri A.; Storace M.

? Keywords: Inductors | Saturation | Switch-Mode Power Supplies
? Source Id: 21100827202
? Author Ids: 36559098800;7003881642;56997468600;57200266678;57200399832;7004134087
? Authoraffiliationids: 60007061;60007061;60007061;60025153;60025153;60025153
? Corresponding: Di Capua G.

59.

? Title: Design and circuit implementation of approximate switched MPC
? Venue: 2013 European Conference on Circuit Theory and Design Ecctd 2013 Proceedings
? Year: 2013
? Type: Conference Proceeding
? Subtype: Conference Paper
? Citations: 2
? DOI: 10.1109/ecctd.2013.6662329
? Scopus ID: 2-s2.0-84892652601
? Authors: Oliveri A.; Lodi M.; Storace M.
? Source Id: 21100997143
? Author Ids: 57200399832;57200266678;7004134087
? Authoraffiliationids: 60025153;60025153;60025153
? Corresponding: Oliveri A.