

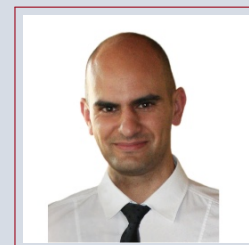
# Federico Tramarin

## Curriculum Vitæ et Studiorum

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**Associate Professor – Università degli Studi di Modena e Reggio Emilia, Italy**

### Personal Data

**Place and Date of birth** 8 September 1984  
Badia Polesine (RO)

**Citizenship** Italian

**email** [federico.tramarin@unimore.it](mailto:federico.tramarin@unimore.it)

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### Current Academic Positions

**05/2020–** **Associate Professor**, *University of Modena and Reggio Emilia*  
*Department of Engineering "Enzo Ferrari" (DIEF).*  
Via Pietro Vivarelli 10 – I-41125 Modena, Italy

### Previous Academic Positions

**11/2018–** **Assistant Professor in Computer Science**, *University of Padua*  
**04/2020** *Dept. Management and Engineering (DTG).*  
Str. San Nicola, 3I-36100 – Vicenza, VI, Italia

### Citation Statistics

**Citations** 888 (GScholar) / 622 (Scopus)

**h-index** 16 (GScholar) / 13 (Scopus)

### Academic education

#### PhD

**2009–2011** **PhD in Information Science and Technologies, cycle XXIV**,  
*Department of Information Engineering.*  
University of Padova, Padova, Italy

**Thesis title** *Industrial Wireless Sensor Networks. Simulation and measurements in an interfering environment*

**Final grade** Excellent ("Ottimo")

**Defense date** April 19th, 2012

**Advisor** Prof. M. Bertocco

#### Master Thesis

**2006–2008** **Master Degree in Electronic Engineering**, *Department of Information Engineering, University of Padova,*  
Padova, Italy.

**Thesis** *Cross-Layer Analysis of Interfering Wireless Sensors Networks*

**Advisor** Prof. M. Bertocco

**Grade** 110/110 (*cum laude*), GPA 29.77/30 over 13 exams

### Research Grants

**04/2014–** **Post-Doc Research Grant**, *National Research Council of Italy.*

**03/2018** *Institute of Electronics, Computer and Telecommunication Engineering (IEIIT), Torino, Italy,*  
Contract no. IEIIT/02/2014/TO.

**01/2013–** **Post-Doc Research Grant**, *National Research Council of Italy.*

**12/2013** *Institute of Electronics, Computer and Telecommunication Engineering (IEIIT), Torino, Italy,*  
Contract no. IEIIT/29/2012/TO.

**01/2012– Post-Doc Research Grant**, *Electronic Measurement Research Group*,  
**12/2012** *Department of Information Engineering, University of Padova, Italy*,  
Contract no. 97/2011.  
Under supervision of prof. Claudio Narduzzi

## Participation in Research Projects funded through competitive calls

- 2019 INTERACT**, *Industrial inTernet of things architEctures and Algorithms for time-critical Cyber-physical systems*, Project funded by a competitive call (BIRD funding), University of Padova,  
Total funding: 41.000 €  
**Principal investigator: Dr. Ing. Federico Tramarin**, University of Padova  
Call no. BIRD194014 – 15/03/2019.  
Other members: Prof. Roberto Oboe, T. Caldognetto, A. Sona.
- 2017 MAgIC**, *Multi-Agent Intelligent Control of time-critical Cyber-Physical Systems over wireless*, Project funded by a competitive call (BIRD funding),  
Total funding: 60.000 €  
Principal investigator: prof. Luca Schenato, University of Padova  
Call no. BIRD 175771 – 15/05/2017.  
Other members: S. Ghidoni, S. Milani, A. Cenedese, R. Oboe.  
Responsible for the activities in two work packages of the project
- 2014 & 2016 IMET2AL**, *genomic Model prEdictive conTrol Tools for evolutionAry pLants*, within the framework of “Flagship project *La Fabbrica del Futuro*”, CNR,  
Total funding: 312.500 €  
Total funding per research operating Unit: 104.168 €  
Principal investigator: Dott. Ivan Cibrario Bertolotti, IEIT-CNR  
Protocol no. 321 – 19/02/2014.  
Dr. Tramarin participated as a Member of the research Unit
- 2013-2014 GECKO**, *Generic Evolutionary Control knowledge-based Module*, within the framework of “Flagship project *La Fabbrica del Futuro*”, CNR,  
Total funding: 700.000 €  
Total funding per research operating Unit: 212.600 €  
Principal investigator: Anna Valente, ITIA-CNR (then Alessandro Brusafferri, ITIA-CNR)  
Protocol no. 312 – 18/02/2014.  
Dr. Tramarin participated as a Member of the research Unit
- 2011-2012 IMPROVE**, *Implementing Manufacturing science solutions to increase equipment pROductiVity and fab pErformance*, Joint Technological Initiative (JTI) ENIAC. Project co-funded by Italian Ministry of Research MIUR (66.7%) e European Community (33.3%),  
Total funding: 18.160.970 €  
Total funding per research operating Unit: 369.500 €  
Principal investigator: Dott. Francois Finck, ST Microelectronics, Crolles, France  
Protocol no. 642 – 29/04/2016.  
Dr. Tramarin participated as a Member of the research Unit
- 2011-2013 PRIN 2009**, *Characterisation and performance measurement in hybrid smart transducer networks: innovative experimental methods and instrumentation*, University of Padova – Ministry of Instruction, University and Research,  
Total funding: 335.720 €  
Total funding per research operating Unit: 81.389 € – University of Padova  
Total funding per research operating Unit: 78.600 € – National Research Council of Italy  
Principal investigator: prof. Claudio Narduzzi, University of Padova  
Contract no. 2009ZTT5N4\_001 and 2009ZTT5N4\_003 – 31/05/2010.  
Dr. Tramarin participated as a Member of the research Unit of the University of Padova for years 2011–2012  
He participated as a Member of the research Unit of the National research Council of Italy for year 2013

**2010-2012 PRIN 2008, Measurements, and accuracy evaluation in wireless space-time localization applications under real-life conditions**, University of Padova — Ministry of Instruction, University and Research,  
Total funding: 101.224 €  
Total funding per research operating Unit: 24.200 € — University of Padova  
Principal investigator: prof. Paolo Carbone, University of Perugia  
Contract no. 2008TK5B55\_004 — 22/03/2010.  
Dr. Tramarin participated as a Member of the research Unit of the University of Padova

## Organization activities at International Conferences

### Membership in the Organizing Committee of International Conferences

- 2021** *Special Session Co-Chair*  
1st IEEE Intl. Workshop on Metrology for Automotive, METROAUTOMOTIVE 2021, Virtual Conference
- 2020** *Workshop Co-Chair*  
26th IEEE Intl. Conference on Emerging Technologies and Factory Automation, ETFA 2021, Västerås, Sweden
- 2021** *Special Session Co-Chair*  
19th IEEE Intl. Conference on Industrial Informatics, INDIN 2021, Palma de Mallorca, Spain
- 2020** *Special Session Co-Chair*  
25th IEEE Intl. Conference on Emerging Technologies and Factory Automation, ETFA 2020, Vienna, Austria
- 2019** *Work-in-Progress, Tutorial e Demo Co-Chair*  
18th IEEE Intl. Conference on Dependable, Autonomic and Secure Computing, DASC 2020, Calgary, Canada

### Membership in Technical Program Committees

- 2019**
  - TPC, 2nd IEEE International Conference on Industrial Internet, ICII 2019
  - TPC, 8th ACM International Conference on Networks, Communication and Computing, ICNCC 2019
  - TPC, 24rd IEEE Intl. Conf. on Emerging Technologies and Factory Automation, ETFA 2019
  - TPC, 17th IEEE International Conference on Industrial Informatics, INDIN 2019
  - TPC, IEEE Int. Instrumentation and Measurement Technology Conf., I2MTC 2019
  - TPC, 15th IEEE World Conference on Factory Communication Systems, WFCS 2019
- 2018**
  - TPC, 23rd IEEE Intl. Conf. on Emerging Technologies and Factory Automation, ETFA 2018
  - TPC, 26th IFIP/IEEE International Conf. on Very Large Scale Integration, VLSI-SOC 2018
  - TPC, 16th IEEE International Conference on Industrial Informatics, INDIN 2018
  - TPC, IEEE Int. Instrumentation and Measurement Technology Conf., I2MTC 2018
  - TPC, 27th International Conf. on Computer Communications and Networks (ICCCN 2018)
  - TPC, 3rd Symposium on Advances in Applied Informatics (SAI 2018)
- 2017**
  - TPC, 26th International Conf. on Computer Communications and Networks (ICCCN 2017)
  - TPC, 15th IEEE International Conference on Industrial Informatics, INDIN 2017
  - TPC, 18th IEEE Annual International Conference on Industrial Technology, ICIT 2017
  - TPC, IEEE International Workshop on Measurement and Networking, M&N 2017
  - TPC, IEEE Int. Instrumentation and Measurement Technology Conf., I2MTC 2017
- 2016**
  - TPC, 12th IEEE World Conference on Factory Communication Systems, WFCS 2016
  - TPC, 5th IEEE Intl. Conf. on Computing, Communications and Informatics, ICACCI 2016
- 2015**
  - TPC, 11th IEEE World Conference on Factory Communication Systems, WFCS 2015
  - TPC, 3rd IEEE International Workshop on Measurement and Networking, M&N 2015

### Organization of Special Sessions

- 2021** “Enhancing smart measurement systems with artificial intelligence for the automotive industry of the future”,  
1st IEEE Intl. Workshop on Metrology for Automotive, METROAUTOMOTIVE 2021
- 2021** “Smart Measuring Systems and Measures for the Management of Emergencies. The case of COVID19 pandemic, and beyond”,  
IEEE International Instrumentation and Measurement Technology Conference, I2MTC 2021
- 2020** “Industrial Cyber-Physical Systems: Applications, Challenges and Trends”,  
IEEE International Industrial Electronics Conference, IECON 2020
- 2020** “Emerging communication and computing technologies for the Industrial Cyber Physical Systems”,  
18th IEEE International Conference on Industrial Informatics, INDIN 2020
- 2019** “Industrial Cyber-Physical Systems: new trends in computing and communications”,  
24th IEEE Int. Conference on Emerging Technologies and Factory Automation, ETFA 2019

- 2019** “Communications and Computing for Fog Based Control Systems”,  
17th IEEE International Conference on Industrial Informatics, INDIN 2019
- 2017** “Wireless Sensor Networks in the Internet of Things Era”,  
12th IEEE International Instrumentation and Measurement Technology Conference, I2MTC 2017

## Membership and participation in National and International Research Groups

- IEEE IMS TC37** Member of IEEE–IMS Technical Committee on Measurements and Networking
- IEEE TCII** Member of the IEEE–IES Technical Committee on Industrial Informatics
- IEEE TCFA** Member of the IEEE–IES Technical Committee on Factory Automation (TCFA 1)
- SPS Italy** Member of the Technical Committee of SPS Italy (<https://www.spsitalia.it/it/comitato-scientifico>)

**Standardization Committees** Member of the IEEE Working Group for the standardization of the IEEE 61158 Standard for Industrial Hard Real-Time Communication

## Editorial Responsibilities

**Associate Editor** IEEE Transaction on Industrial Informatics

**Corresponding Guest Editor** Corresponding Guest Editor della Special Section “Industrial Cyber-Physical Systems: new trends in computing and communications”

**Editor of Special Section (in charge)** IEEE Transactions on Industrial Informatics, IF: 7.377.  
Co–Guest Editors: Michele Luvisotto (ABB Corporate Research, Sweden), Andreas Willig (Univ. Canterbury, NZ), Kan Yu (La Trobe University, AU)

**Member of the Editorial Board of International Journals**

- Journal of System Architecture, Elsevier, ISSN 1434-8411
- International Journal of Computers and Applications, Taylor and Francis, ISSN 1434-8411
- AEÜ - International Journal of Electronics and Communications, Elsevier, ISSN 1434-8411
- Wireless Communication and Mobile Computing, Wiley/Hindawi, ISSN 1530-8677
- MDPI Information, ISSN 2078-2489
- Global Journals on Engineering Research, ISSN 2249-4596

**Reviewer for International Journals** IEEE Transactions on Instrumentation and Measurement, IEEE Sensors Journal, IEEE Transactions on Industrial Informatics, IEEE Industrial Electronic Magazine, IEEE Internet of Things Journal, IEEE Wireless Communication Letters, IEEE Communication Letters, Elsevier Computer Standard and Interfaces, Elsevier Ad–Hoc Networks, MDPI Sensors, IET Journal on Intelligent Transport Systems

## Responsibilities in PhD Schools

**PhD School Faculty Board** Member of the PhD Faculty Board of the PhD Course in “Mechatronic and Product Innovation Engineering”, Dept. Management and Engineering, University of Padua, Italy.

**Phd Schools Organization** Responsible for the Teaching Coordination within PhD School in “Mechatronic and Product Innovation Engineering”, Dept. Management and Engineering, University of Padua, Italy.

## International Awards

- 2016 Best Paper Award**, *12th IEEE World Conference on Factory Communication Systems, WFCS 2016*, IEEE, May 3-6, 2016.  
Aveiro, Portugal
- 2010 Best 2010 Conference Paper Award**, *Industrial Electronic Society, IEEE*, Appointed as the best conference paper presented in 2009/2010 to IES sponsored conferences.  
Phoenix (AZ), USA
- 2009 James C. Hung Best Paper Award**, *14th International IEEE Conference on Emerging Technologies and Factory Automation, IEEE ETFA 2009*.  
Palma de Mallorca, Spain

### Papers published in International Journals (JCR)

- [J1] F. Tramarin, M. Luvisotto, A. Willig, and K. Yu, "Guest editorial: Industrial cyber-physical systems - new trends in computing and communications," *IEEE Transactions on Industrial Informatics*, vol. 17, no. 5, pp. 3518–3522, 2021. DOI: 10.1109/tii.2020.3033818. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85101772945&doi=10.1109%2fTII.2020.3033818&partnerID=40&md5=c951620c85285c149eaea1d7c8f413e6>.
- [J2] F. Branz, R. Antonello, M. Pezzutto, S. Vitturi, F. Tramarin, and L. Schenato, "Drive-by-wi-fi: Model-based control over wireless at 1 khz," *IEEE Transactions on Control Systems Technology*, 2021, cited By 0. DOI: 10.1109/tcst.2021.3094865. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85112625292&doi=10.1109%2fTCST.2021.3094865&partnerID=40&md5=5460a5642f97cf94b85663ed9aed0b1c>.
- [J3] A. Morato, S. Vitturi, F. Tramarin, and A. Cenedese, "Assessment of different opc ua implementations for industrial iot-based measurement applications," *IEEE Transactions on Instrumentation and Measurement*, vol. 70, 2021, cited By 0. DOI: 10.1109/tim.2020.3043116. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097935631&doi=10.1109%2fTIM.2020.3043116&partnerID=40&md5=af0cd0e895e1f962a0242c98b4c6c78b>.
- [J4] F. Branz, R. Antonello, L. Schenato, F. Tramarin, and S. Vitturi, "Time-critical wireless networked embedded systems: Feasibility and experimental assessment," *IEEE Transactions on Industrial Informatics*, vol. 16, no. 12, pp. 7732–7742, 2020, cited By 1. DOI: 10.1109/TII.2020.2992990. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092076600&doi=10.1109%2fTII.2020.2992990&partnerID=40&md5=1cdf600d86f15df174c48a3c7fbadb5c>.
- [J5] T. Fedullo, F. Tramarin, and S. Vitturi, "The impact of rate adaptation algorithms on wi-fi-based factory automation systems," *Sensors (Switzerland)*, vol. 20, no. 18, pp. 1–13, 2020, cited By 1. DOI: 10.3390/s20185195. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090575123&doi=10.3390%2fs20185195&partnerID=40&md5=b15114cff2f1643b37fbb4a490de2cc8>.
- [J6] M. Pezzutto, F. Tramarin, S. Dey, and L. Schenato, "Adaptive transmission rate for lqg control over wi-fi: A cross-layer approach," *Automatica*, vol. 119, 2020, cited By 2. DOI: 10.1016/j.automatica.2020.109092. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086632897&doi=10.1016%2fj.automatica.2020.109092&partnerID=40&md5=79afc58f5f9cc54ee58e10865e0f66a8>.
- [J7] F. Tramarin, A. Mok, and S. Han, "Real-time and reliable industrial control over wireless lans: Algorithms, protocols, and future directions," *Proceedings of the IEEE*, vol. 107, no. 6, pp. 1027–1052, 2019, cited By 23. DOI: 10.1109/JPROC.2019.2913450. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066504055&doi=10.1109%2fJPROC.2019.2913450&partnerID=40&md5=1ca52583278f3988a7533a41a25577f3>.
- [J8] F. Tramarin, C. Narduzzi, S. Vitturi, and M. Bertocco, "A calibrated test-set for measurement of access-point time specifications in hybrid wired/wireless industrial communication," *Information (Switzerland)*, vol. 9, no. 5, 2018, cited By 2. DOI: 10.3390/info9050122. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047153861&doi=10.3390%2finfo9050122&partnerID=40&md5=3af0e1883e3afb05ae9432a0aa0bd93c>.
- [J9] M. Luvisotto, F. Tramarin, L. Vangelista, and S. Vitturi, "On the use of lorawan for indoor industrial iot applications," *Wireless Communications and Mobile Computing*, vol. 2018, 2018, cited By 47. DOI: 10.1155/2018/3982646. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047876057&doi=10.1155%2f2018%2f3982646&partnerID=40&md5=f20121238b39575c9b73eef94b0668d>.
- [J10] M. Luvisotto, F. Tramarin, and S. Vitturi, "A learning algorithm for rate selection in real-time wireless lans," *Computer Networks*, vol. 126, pp. 114–124, 2017, cited By 8. DOI: 10.1016/j.comnet.2017.07.002. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85022196686&doi=10.1016%2fj.comnet.2017.07.002&partnerID=40&md5=8eb77f8edfe1551ed19135551a17672f>.
- [J11] F. Tramarin, S. Vitturi, and M. Luvisotto, "A dynamic rate selection algorithm for ieee 802.11 industrial wireless lan," *IEEE Transactions on Industrial Informatics*, vol. 13, no. 2, pp. 846–855, 2017, cited By 24. DOI: 10.1109/TII.2016.2616327. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018190214&doi=10.1109%2fTII.2016.2616327&partnerID=40&md5=48c11e8c153aeb86fdb3e20a9f75b08d>.
- [J12] A. Cenedese, F. Tramarin, and S. Vitturi, "An energy efficient ethernet strategy based on traffic prediction and shaping," *IEEE Transactions on Communications*, vol. 65, no. 1, pp. 270–282, 2017, cited By 13. DOI: 10.1109/TCOMM.2016.2623702. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009917903&doi=10.1109%2fTCOMM.2016.2623702&partnerID=40&md5=f45d68653edc8a732c84bbfd5b8bc611>.
- [J13] F. Tramarin, S. Vitturi, M. Luvisotto, and A. Zanella, "On the use of ieee 802.11n for industrial communications," *IEEE Transactions on Industrial Informatics*, vol. 12, no. 5, pp. 1877–1886, 2016, cited By 67. DOI: 10.1109/TII.2015.2504872. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85012045392&doi=10.1109%2fTII.2015.2504872&partnerID=40&md5=9c18daf384c1d24c6345bc8fd7eb9251>.
- [J14] F. Tramarin and S. Vitturi, "Strategies and services for energy efficiency in real-time ethernet networks," *IEEE Transactions on Industrial Informatics*, vol. 11, no. 3, pp. 841–852, 2015, cited By 9. DOI: 10.1109/TII.2015.2426953. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84937391024&doi=10.1109%2fTII.2015.2426953&partnerID=40&md5=cea5bcab905b8420b74d19d0e6c4d0d4>.



- [J15] S. Vitturi and F. Tramarin, "Energy efficient ethernet for real-time industrial networks," *IEEE Transactions on Automation Science and Engineering*, vol. 12, no. 1, pp. 228–237, 2015, cited By 18. DOI: 10.1109/TASE.2014.2313735. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84920833475&doi=10.1109%2fTASE.2014.2313735&partnerID=40&md5=a28b6c444836aae6419b64f7980481ab>.
- [J16] M. Bertocco, G. Frigo, C. Narduzzi, and F. Tramarin, "Resolution enhancement by compressive sensing in power quality and phasor measurement," *IEEE Transactions on Instrumentation and Measurement*, vol. 63, no. 10, pp. 2358–2367, 2014, cited By 49. DOI: 10.1109/TIM.2014.2321465. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84907536752&doi=10.1109%2fTIM.2014.2321465&partnerID=40&md5=1f6b497ddf60da698d893d708c7d91d0>.
- [J17] S. Vitturi, L. Seno, F. Tramarin, and M. Bertocco, "On the rate adaptation techniques of ieee 802.11 networks for industrial applications," *IEEE Transactions on Industrial Informatics*, vol. 9, no. 1, pp. 198–208, 2013, cited By 48. DOI: 10.1109/TII.2012.2189223. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84871745083&doi=10.1109%2fTII.2012.2189223&partnerID=40&md5=1b6c3380cfe8cce2b8ac1113b37815df>.
- [J18] S. Vitturi, F. Tramarin, and L. Seno, "Industrial wireless networks: The significance of timeliness in communication systems," *IEEE Industrial Electronics Magazine*, vol. 7, no. 2, pp. 40–51, 2013, cited By 41. DOI: 10.1109/MIE.2013.2253837. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84879919383&doi=10.1109%2fMIE.2013.2253837&partnerID=40&md5=4d043e0df19db59a70963083e9bf5de8>.
- [J19] L. Seno, F. Tramarin, and S. Vitturi, "Performance of industrial communication systems: Real application contexts," *IEEE Industrial Electronics Magazine*, vol. 6, no. 2, pp. 27–37, 2012, cited By 21. DOI: 10.1109/MIE.2012.2193292. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84862701828&doi=10.1109%2fMIE.2012.2193292&partnerID=40&md5=99b02bf0a8cd859b1bda30f0b0c44791>.
- [J20] G. Gamba, F. Tramarin, and A. Willig, "Retransmission strategies for cyclic polling over wireless channels in the presence of interference," *IEEE Transactions on Industrial Informatics*, vol. 6, no. 3, pp. 405–415, 2010, cited By 41. DOI: 10.1109/TII.2010.2050777. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-77955714345&doi=10.1109%2fTII.2010.2050777&partnerID=40&md5=abc5a0dbb81471c120561f85c9cd8b99>.

### Chapters in Books

- [B1] F. Tramarin and S. Vitturi, "Ethernet POWERLINK," in *Industrial Communication Technology Handbook*. CRC Press, Dec. 2017, ch. 19, pp. 19-1-19-12, cited By 0. DOI: 10.1201/b17365-20. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051780391&doi=10.1201%2fb17365&partnerID=40&md5=ed2cda4096fe5af993677b2ad550305d>.
- [B2] E. Sisinni and F. Tramarin, "Isochronous wireless communication system for industrial automation," in *Industrial Wireless Sensor Networks*. Elsevier, 2016, pp. 167–188, cited By 6. DOI: 10.1016/b978-1-78242-230-3.00009-x. [Online]. Available: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84982794759&doi=10.1016%2fb978-1-78242-230-3.00009-X&partnerID=40&md5=f5a2e16b2ebe8fe8551fa3c610635793>.
- [B3] F. Tramarin and L. Seno, "Real-time communication over native ethernet: Powerlink," in *Handbook on Electrical Engineering Technology and Systems*, R. Zurawski, Ed. Boca Raton: CRC Press. Taylor & Francis, 2016, ch. 5.3.4.4, In press (January 2017), ISBN: 978-1-482256284.
- [B4] F. Tramarin and E. Sisinni, "Wireless LAN technologies for the factory floor," in *Handbook on Electrical Engineering Technology and Systems*, R. Zurawski, Ed. Boca Raton: CRC Press. Taylor & Francis, 2016, ch. 5.3.6.1, In press (January 2017), ISBN: 978-1-482256284.
- [B5] —, "Wireless PAN technologies for the factory floor," in *Handbook on Electrical Engineering Technology and Systems*, R. Zurawski, Ed. Boca Raton: CRC Press. Taylor & Francis, 2016, ch. 5.3.6.2, In press (January 2017), ISBN: 978-1-482256284.

### IEEE Standards

- [S1] IEEE 61158, *Ieee standard for industrial hard real-time communication*, M. of the Working Group and B. Committee, Eds., New York: IEEE, 2017. DOI: 10.1109/IEEESTD.2017.8024204.

### Papers published in International Conference Proceedings

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Modena, September 9, 2021

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