

## PERSONAL INFORMATION

## Tullio Facchinetti

☎ (+39) 0382 985517

✉ [tullio.facchinetti@unipv.it](mailto:tullio.facchinetti@unipv.it)

🔑 [robot.unipv.it/toolleeo](http://robot.unipv.it/toolleeo)

🐙 <https://github.com/toolleeo>

🌐 <https://www.linkedin.com/in/tullio-facchinetti-9483225>

🆔 ORCID [0000-0003-0221-6123](https://orcid.org/0000-0003-0221-6123)

Gender Male | Date of birth 3 march 1975 | Nationality Italian

## SUMMARY

I graduated in Computer Engineering (2001) and got my PhD in Computer Engineering (2005) at the University of Pavia, Italy. Since November 2007 I am Assistant Professor at the University of Pavia, heading the research on robotics, home automation and real-time systems at the Robotics Laboratory.

Since 2002 I participated to several Italian and European projects focusing on real-time operating systems and embedded systems for distributed applications. I am author of more than 80 papers on international refereed journals and conference proceedings, and 1 international patent. I served as program committee member for more than 80 international events, and I chaired several tracks in international conferences and scientific events. I am an active organizer of scientific events. I revised more than 110 papers for more than 40 different international journals. Since year 2008, I has been the supervisor of 13 PhD students, and supervisor of Master and Bachelor Degree theses of around 210 students.

Since 2020 I am member of the Editorial Board of the Real-Time Systems journal (Springer). I am is the Editor of the Special Issue for the MDPI Electronics journal “Applications of Embedded Systems” and Section Editor for the book Cyber-Physical Systems: A Reference (Springer).

Indicators Scopus: h-index 17, citations 885, documents 75 || Google Scholar: h-index 21, citations 1617, i10-index 38.

## POSITION

2007-10-01 - today *Assistant Professor* in the scientific area of Computer Science at the Department of Industrial, Computer and Biomedical Engineering of the University of Pavia.

## EDUCATION

2005-07-11 *PhD in Electronics, Computer Science and Electrical Engineering*, Curriculum Computer Science, at the University of Pavia.

2005-03-06 - 2005-03-10 Course on *Leadership and Personality*, held by Livio Sgarbi (EKIS), organized by the Rotary Young Leadership Awards (RYLA), Sirmione (BS).

2004-07-05 - 2004-07-09 *Summer School on Real-time Scheduling and Resource Management*, in Piazza Armerina (EN), Italy; supported by a grant from the European project ARTIST (Advanced Real-Time Systems).

2004-02 - 2004-08 Visiting scientist at the University of Aveiro (Portugal), Dep. de Electrónica, Telecomunicações e Informática, within the PhD; research on problems about real-time communication in wireless ad-hoc networks.

2001 Passed the screening to become a member of the Italian Association of Engineers. Not currently member of the Association.

- 2001-03 *Master Degree on Computer Science Engineering* at the University of Pavia (grade: 105/110), with a thesis entitled “*Robotic system for tracking mobile targets*”.
- 1994 Graduated as Electrical Technician at the Technical Institute “Galileo Galilei” of Lovere (BG), Italy; final grade: 54/60.

## PROJECTS AND FUNDINGS

- 2023 - 2023 Title: [TrackingApp](#)  
Type: Contract  
Description: Development of an Android application for the cloud management of information relating to the maintenance of aeraulic systems.  
Partners/customer: Alisea s.r.l.  
Project coordinator: Tullio Facchinetti
- 2023 - 2023 Title: [Interruptibility 2](#)  
Type: Contract  
Description: Solutions for refining the allocation of resources in corporate energy consumption consortia.  
Partners/customer: EnergyTeam S.p.A.  
Project coordinator: Tullio Facchinetti
- 2022 - 2022 Title: [The Impact of Contamination on HVAC Energy Efficiency](#)  
Type: Contract  
Partners/customer: NADCA, Smartdhome S.r.L., Alisea S.R.L.  
Project coordinator: Tullio Facchinetti
- 2021 - 2021 Title: [Interruptibility](#)  
Type: Contract  
Description: Development of an optimization algorithm for the allocation of resources in corporate energy consumption consortia.  
Partners/customer: EnergyTeam S.p.A.  
Project coordinator: Tullio Facchinetti
- 2021-07-01 - 2021-12-31 Title: [Development of techniques based on machine and deep learning for the optimization of the price of vehicles according to stock times](#)  
Type: Contract  
Description: Contract aimed at the characterization and possible optimization of the storage times of vehicles in stock at Autotorino through analysis with machine learning techniques of historical sales data.  
Partners/customer: Autotorino S.p.A.  
Project coordinator: Tullio Facchinetti
- 2021-01-01 - 2021-09-30 Title: [EIFE](#)  
Type: Contract  
Description: Contract for collaboration on the EIFE project which provides for the study of algorithms for optimizing the operation of a centralized boiler.  
Partners/customer: CSELT  
Project coordinator: Tullio Facchinetti
- 2020-11-01 - 2020-07-01 Title: [AiDi – Help to impaired persons](#)  
Type: Contract  
Description: Contract funded by WEBSIN s.r.l. for the development of a system for assisting impaired persons in their working place.  
Partners/customer: WEBSIN s.r.l.  
Project coordinator: Tullio Facchinetti

- 2019-09-25 - 2020-03-25 Title: [Development of techniques based on machine and deep learning with the goal of estimating the selling price of second hand cars](#)  
Type: Contract  
Partners/customer: Autotorino S.p.A.  
Project coordinator: Tullio Facchinetti
- 2019 - 2019 Title: [Feasibility study of the ELIO project](#)  
Type: Contract  
Partners/customer: Maglificio Sinclair  
Project coordinator: Tullio Facchinetti
- 2017-11-24 - 2019-05-15 Title: [IPHSDM- Intelligent Personal Health and Safety Domotic Monitoring](#)  
Type: Regional funded project (Project "Smart Living", Call n. 11672 of the 15 November 2016)  
Partners/customer: MTM S.R.L., SNJ Media Studio S.R.L., Meridionale Impianti S.P.A., Elexes S.R.L., STMicroelectronics S.R.L.  
Project coordinator: Virginio Cantoni and Marco Piastra
- 2017-11-24 - 2019-05-15 Title: [SLEA - Smart Living Energy Assistant](#)  
Type: Regional funded project (Project "Smart Living", Call n. 11672 of the 15 November 2016)  
Partners/customer: Smartdhome, Sysman s.r.l., Soci del sole  
Project coordinator: Smartdhome; Tullio Facchinetti (UNIPV)
- 2017-01-01 - 2017-12-31 Title: [Showall](#)  
Type: Regional funded project (Project "Smart Fashion and Design")  
Partners/customer: Julight s.r.l.  
Project coordinator: Julight s.r.l.
- 2016 - 2018 Title: [Home of IoT](#)  
Type: Regional funded project  
Partners/customer: STMicroelectronics, AZCOM, University of Pavia  
Project coordinator: Marco Piastra (UNIPV)
- 2016-03-10 - 2018-03-09 Title: [La Rete](#)  
Type: Contract  
Partners/customer: La Rete s.r.l. (Brescia, Italy)  
Project coordinator: Tullio Facchinetti and Francesco Ramaioli (UNIPV)
- 2016-07-12 - 2018-01-11 Title: [Smart EnergyBox](#)  
Type: Contract  
Description: Research contract paid by GFM SpA entitled "Development of control software" in the scope of their funded research and development project entitled "Smart Energy Box: Innovative system for the distributed generation of electric power, storage and programmed usage in the smart grid".  
Partners/customer: GFM S.p.A. (Bergamo, Italy)  
Project coordinator: Tullio Facchinetti (UNIPV)
- 2015-03-01 - 2018-02-28 Title: [LUMENTILE: LUMinous ElectroNic TILE](#)  
Type: H2020 - ICT-03-2014 - Advanced Thin, Organic and Large Area Electronics (TOLAE) technologies  
Partners/customer: University of Pavia (Italy), Teknologian Tutkimuskeskus (Finland), Eclxys SAGL (Switzerland), Julight SRL (Italy), Keraplan SRL (Italy), Studio Itinerante Arquitectura SL (Spain), Knowledge Innovation Market SL (Spain)  
Project coordinator: Guido Giuliani (project coordinator), Tullio Facchinetti (UNIPV unit co-coordinator)

- 2015-12-03 - 2016-06-02 Title: [Software development for mobile systems](#)  
Type: Contract  
Partners/customer: Alisea s.r.l. (Pavia, Italy)  
Project coordinator: Tullio Facchinetti
- 2015-03-25 - 2016-03-25 Title: [Design of an autonomous robot for the automatic exploration of air conditioning ducts](#)  
Type: Contract  
Partners/customer: Alisea s.r.l. (Pavia, Italy)  
Project coordinator: Tullio Facchinetti
- 2011 - 2012 Title: [ATW - Air To Water](#)  
Type: Contract  
Partners/customer: ATW s.r.l.  
Project coordinator: Francesco Benzi (UNIPV coordinator), Tullio Facchinetti (coordinator WP8)
- 2012 - 2012 Title: [Project "Pavia Development"](#)  
Type: Didactic project funded by the Chamber of Commerce of Pavia  
Partners/customer: ATLAS CopCo, headquarter in Anversa, Belgium  
Project coordinator: Tullio Facchinetti and Norma Anglani
- 2007 - 2012 Title: [ArtistDesign Network of Excellence](#)  
Type: European Network of Excellence (NoE)  
Partners/customer: University of Pavia is affiliated partner of Scuola S. Anna di Pisa (Italy)  
Project coordinator: Giorgio Buttazzo (Unit of Pisa), Tullio Facchinetti (Unit of Pavia)

#### MEMBERSHIP AND AFFILIATIONS

---

- 2019 - 2022 Member of the [ACM \(Association for Computing Machinery\)](#).
- 2019 - today Co-Chair of the [IEEE FA4: Subcommittee on Wireless Sensor Networks and Cyber-Physical Systems in Industrial and Factory Automation](#).
- 2016 - today Member of the [IEEE FA13: Subcommittee on Computer Vision and Human-Machine Interaction in Industrial and Factory Automation](#).
- 2016 - today Member of the [IEEE Robotics and Automation Society \(RAS\)](#).
- 2016 - today Member of the [IEEE Industrial Electronics Society \(IES\)](#).
- 2009 - today Member of the [Institute of Electrical and Electronics Engineers \(IEEE\)](#).

#### INSTITUTIONAL ROLES

---

- 2023-01-12 - today Member of the committee *Relationships with the labour market, stages and internships* in the degree Artificial Intelligence for Science and Technology organized by the University of Pavia, Milano Statale and Milano Bicocca.
- 2022-11-24 - today Member of the committee *Harmonization of services among univesities* in the degree Artificial Intelligence for Science and Technology organized by the University of Pavia, Milano Statale and Milano Bicocca.
- 2021-11-15 - 2022-07-31 Co-organizer, with the company *Galdus Società Cooperativa Sociale*, of a Course on "Software developer for the Industry 4.0".
- 2019-11-12 - 2020-11 Co-organizer, with the company *Galdus Società Cooperativa Sociale*, of a Course on "Software development for the Industry 4.0".

- 2019-07-16 - 2019-09-19 Substitute member of the evaluation committee for the PhD course in Electronics, Computer and Electrical Engineering, 35° cycle, at the Università of Pavia.
- A/Y 2018-19 - today Membership of the Committee for the Research at the Dept. of Industrial, Computer and Biomedical Engineering, University of Pavia.
- A/Y 2017-18 - today Membership of the Committee for Industrial Internships at the Dept. of Industrial, Computer and Biomedical Engineering, University of Pavia; responsibility for the area in Computer Science and Electronics.
- A/Y 2017-18 Organizer of the Master on Full Stack Software Development.
- A/Y 2012-13 - A/Y 2016-17 Membership of the PhD Committee at the Dept. of Industrial, Computer and Biomedical Engineering, University of Pavia.

#### INTERNATIONAL COLLABORATIONS

---

- 2022-12-14 - 2022-12-23 Hosting of Professor *Howard Li, Peng* from Department of Electrical and Computer Engineering, University of New Brunswick, Fredericton, NB, Canada.
- 2021-12-13 - 2021-12-18 Hosting of Professor *Howard Li, Peng* from Department of Electrical and Computer Engineering, University of New Brunswick, Fredericton, NB, Canada.
- 2019-11-11 - 2019-11-15 Hosting of Professor *Howard Li, Peng* from Department of Electrical and Computer Engineering, University of New Brunswick, Fredericton, NB, Canada.
- 2019-05-15 - 2019-07-31 Hosting of Visiting Professor *Sajid Iqbal* from Department of Mechatronics & Control Engineering, University of Engineering & Technology (UET), Lahore, Pakistan. The visit has been supported by a CICOPS grant (Centro Internazionale Cooperazione per lo Sviluppo).
- 2018-12-09 - 2018-12-21 Hosting of Professor *Howard Li, Peng* from Department of Electrical and Computer Engineering, University of New Brunswick, Fredericton, NB, Canada.
- 2017-12-18 - 2017-12-20 Hosting of Professor *Luis Almeida* from Instituto de Telecomunicações, Faculdade de Engenharia at the Universidade do Porto, Porto, Portugal.
- 2017-10-29 - 2017-11-05 Hosting of Professor *Luis Almeida* from Instituto de Telecomunicações, Faculdade de Engenharia at the Universidade do Porto, Porto, Portugal.
- 2014-10-08 - 2014-12-15 Hosting of Professor *Howard Li, Peng* from Department of Electrical and Computer Engineering, University of New Brunswick, Fredericton, NB, Canada.

#### AWARDS AND HONORS

---

- 2023-12-14 Second prize at the event UniVenture 2023, organized by Prof. Denicolai (University of Pavia), for the business project VR-PSY.
- 2023-10-18 Member of the University of Pavia team that won first prize at the international Science Battle 2023 competition, organized in the context of the European EC2U project. The competition saw the participation of 7 European universities and consisted of answering questions of various kinds with a scientific approach.
- 2019-12-17 Second prize at the event UniVenture 2018, organized within the StartUpItalia event by Prof. Denicolai (University of Pavia), for the business project ELIO.

- 2017-05-15 - 2017-05-17 Best short paper award at the ACM International Conference on Computing Frontiers (CF'17) with the paper "Peak load optimization through 2-dimensional packing and multi-processor real-time scheduling".
- 2013 Best paper award at the Third International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies (Energy) with the paper "Real-Time Scheduling for Peak Load Reduction in a Large Set of Heating, Ventilation and Air-Conditioning loads".
- 2013-10-22 The Association of Engineers of Bergamo (Italy) has awarded the PhD thesis of Marco Della Vedova, which was under my supervision "Real-Time Physical Systems and Electric Load Scheduling", as best thesis of the year on topics related to energy efficiency.
- 2008 Best paper award at the 7th IEEE International Workshop on Factory Communication Systems (WFCS) with the paper "Towards the Powerline Alternative in Automotive Applications".

## PUBLIC ENGAGEMENT

---

- 2023-10-28 Supervisor (Proctor) of 3 teams (10 students) from University of Pavia for the participation to the international programming contest *IEEEExtreme 17.0 24-Hour Programming Competition*.
- 2022-10-22 Supervisor (Proctor) of 3 teams (9 students) from University of Pavia for the participation to the international programming contest *IEEEExtreme 16.0 24-Hour Programming Competition*.
- 2019-10-19 Supervisor (Proctor) of 1 teams (3 students) from University of Pavia for the participation to the international programming contest *IEEEExtreme 13.0 24-Hour Programming Competition*.
- 2018-10-20 Supervisor (Proctor) of 8 teams (23 students) from University of Pavia for the participation to the international programming contest *IEEEExtreme 12.0 24-Hour Programming Competition*.
- 2017-10-14 Supervisor (Proctor) of 8 teams (23 students) from University of Pavia for the participation to the international programming contest *IEEEExtreme 11.0 24-Hour Programming Competition*.
- 2017-07-07 Invited talk (in Italian language) entitled "From research and entrepreneurship: the contribution of University to the automation" at the Forum "L'impresa del futuro verso Industry 4.0"- Zibello, Parma (invited by Armando Caroli CMC, A.A.C. Consulting S.r.l.).
- 2017-06-14 Invited talk (in Italian language) at the Workshop "L'automazione che vorrei" - Chamber of Commerce of Pavia (invited by Prof. Stefano Denicolai).
- 2016-10-22 Supervisor (Proctor) of 9 teams of students from University of Pavia for the participation to the international programming contest *IEEEExtreme 10.0 24-Hour Programming Competition*.
- 2015-10-24 Supervisor (Proctor) of 8 teams of students from University of Pavia for the participation to the international programming contest *IEEEExtreme 9.0 24-Hour Programming Competition*.
- 2014-10-18 Supervisor (Proctor) of 9 teams of students from University of Pavia for the participation to the international programming contest *IEEEExtreme 8.0 24-Hour Programming Competition*.
- 2013-10-26 Supervisor (Proctor) of 3 teams of students from University of Pavia for the participation to the international programming contest *IEEEExtreme 7.0 24-Hour Programming Competition*.
- 2012-10-20 Supervisor (Proctor) of 4 teams of students from University of Pavia for the participation to the international programming contest *IEEEExtreme 6.0 24-Hour Programming Competition*.

2011-10-22 Supervisor (Proctor) of 3 teams of students from University of Pavia for the participation to the international programming contest *IEEEExtreme 5.0 24-Hour Programming Competition*.

#### EDITORIAL ACTIVITIES

---

2023 - today Member of the [Advisory Board](#) of the Institution of Electrical and Electronics Engineers Pakistan (IEEEEP).

2020 - today Member of the [Editorial Board](#) of the Real-Time Systems Journal (Springer).

2020 - today [Reviewer Board Member](#) of Instruments Journal (MDPI).

2019 - today [Topic board Member](#) for the journal Electronics (MDPI).

2019 - today [Guest Editor](#) for the *Special Issue "Applications of Embedded Systems"*, of the journal Electronics (ed. MDPI).

2017 - today [Section Editor](#) for the *Section on Real-time Embedded Systems*, in the *Handbook of Cyber-Physical Systems* (Ed. Xue Wang), Springer.

#### TEACHING

---

A/Y 2010/11 - today Principles of Computer Programming

A/Y 2023/24 - today Algorithms and Systems for Robotics

A/Y 2022/23 - today Systems for Industry 4.0 and Environment (IoT)

A/Y 2007/08 - 2023/24 Robotics

A/Y 2013/14 - 2014/15 Data Processing Systems

A/Y 2008/09 - 2010/11 Laboratory of Computer Programming

A/Y 2006/07 - 2010/11 Real-time systems

#### INTERNATIONAL TEACHING

---

2019-01-10 - 2019-01-15 Speaker of the seminar "Protocols and real-time operating systems for IoT" (total 8 hours) recognized by both the PhD in Electrical, Computer and Electronic Engineering and the PhD in Microelectronics at the University of Pavia.

2013-11-13 Speaker of the seminar "*Energy Efficiency and Load Management in the modern Smart Grid*", at the TeCIP Laboratory of Scuola Superiore Sant'Anna, Pisa (Italy).

2007-03-26 - 2007-03-28 Tutor for the course "*Real-Time Systems for Microcontrollers: OSEK Standard and experiments on microcontroller devices*"; RETIS laboratory, Scuola Superiore Sant'Anna, Pisa (Italy).

2006-07-10 - 2006-07-14 Tutor for the course "*First European Laboratory on Real-Time Embedded Systems*", Scuola Superiore Sant'Anna, Pisa (Italy).

2005-02-28 - 2005-03-04 Teacher and tutor for the course "*First S.Ha.R.K. Workshop on the Shark RT-Kernel*", on the S.Ha.R.K. real-time operating system, Scuola Superiore Sant'Anna, Pisa (Italy).

2004 Seminars on real-time systems, University of Aveiro (Portugal).

## OTHER TEACHING ACTIVITIES

- 2024-05-10 **Lectures:** [History of Artificial Intelligence from Turing to ChatGPT](#) (4 hours)  
Organizer(s): Highschool Carlo Donegani (Sondrio, Italy)  
Location: Project UNlversoPV - University of Pavia
- 2024-04-29 **Lectures:** [History of Artificial Intelligence from Turing to ChatGPT](#) (4 hours)  
Organizer(s): Highschool Casale (Vigevano, Italy)  
Location: Project UNlversoPV - University of Pavia
- 2024-04-22 **Lectures:** [History of Artificial Intelligence from Turing to ChatGPT](#) (4 hours)  
Organizer(s): Highschool Peano (Tortona, Italy)  
Location: Project UNlversoPV - University of Pavia
- 2024-04-19 **Lectures:** [Not only for hackers: basics of Linux and the terminal](#) (4 hours)  
Organizer(s): Highschool Maserati (Voghera, Italy)  
Location: Project UNlversoPV - University of Pavia
- 2024-04-15 **Lectures:** [History of Artificial Intelligence from Turing to ChatGPT](#) (4 hours)  
Organizer(s): Highschool Maserati (Voghera, Italy)  
Location: Project UNlversoPV - University of Pavia
- 2024-04-12 **Lectures:** [Not only for hackers: basics of Linux and the terminal](#) (4 hours)  
Organizer(s): Highschool Maserati (Voghera, Italy)  
Location: Project UNlversoPV - University of Pavia
- 2024-03-25 **Lectures:** [History of Artificial Intelligence from Turing to ChatGPT](#) (4 hours)  
Organizer(s): Highschool Cairoli (Vigevano, Italy)  
Location: Project UNlversoPV - University of Pavia
- 2023-11-13 - 2023-11-16 **Seminar:** [Internet of Things - Applications and components](#) (4 hours)  
Organizer(s): Pavia, Italy  
Location: Samsung Inc., University of Pavia
- 2022-11-17 **Seminar:** [Applications of the blockchain](#) (2 hours)  
Organizer(s): Pavia, Italy  
Location: Ph.D. program of the Department of Industrial, Biomedical and Computer Engineering, University of Pavia
- 2022-09-30 - 2022-10-03 **Seminar:** [Internet of Things - Applications and components](#) (5 hours)  
Organizer(s): Pavia, Italy  
Location: Samsung Inc., University of Pavia
- 2021-10-19 - 2021-11-02 **Seminar:** [Internet of Things - Applications, components and real-time scheduling](#) (9 hours)  
Organizer(s): Pavia, Italy  
Location: Samsung Inc., University of Pavia
- 2019-12 - 2020-02 **Seminar:** [Robotics and navigation algorithms](#) (6 lectures)  
Organizer(s): Kataoka headquarter (Milan, Italy)  
Location: Institute Le Vele (Pavia, Italy)
- 2019-02 - 2019-03 **Seminar:** [The Robotics - From science fiction to reality](#) (8 lectures)  
Organizer(s): Institute Le Vele (Pavia, Italy)  
Location: Institute Le Vele (Pavia, Italy)



- 2018-02 - 2018-04 **Seminar:** [Robotics and Autonomous Navigation](#) (8 lectures)  
Organizer(s): Institute Le Vele (Pavia, Italy)  
Location: Institute Le Vele (Pavia, Italy)
- 2005-05 **Lectures:** [Real-time systems and robot control](#) (8 lectures)  
Organizer(s): Technical Institute Ferruccio Niccolini (Pomarance, Italy)  
Location: Technical Institute Ferruccio Niccolini (Pomarance, Italy)
- 2003-03 - 2003-04 **Lectures:** [Course on basics of Informatics](#)  
Organizer(s): Primary School Istituto S. Maddalena di Canossa (Pavia, Italy)  
Location: Primary School Istituto S. Maddalena di Canossa (Pavia, Italy)
- 2002-09 - 2002-12 **Tutorship:** [European Computer Driving Licence](#)  
Organizer(s): University of Pavia  
Location: University of Pavia

## ORGANIZATION OF EVENTS

- 2024-09-07 - 2024-09-10 **Track Chair**, “29th IEEE Conference Emerging Technologies and Factory Automation - Track 10 – Artificial Intelligence for Cyber-Physical Systems in Automation (ETFA’24)”, Padova, Italy.
- 2024-09-07 - 2024-09-10 **Publication Chair**, “29th IEEE Conference Emerging Technologies and Factory Automation (ETFA’24)”, Padova, Italy.
- 2024-04-17 - 2024-04-19 **Financial Chair**, “20th IEEE International Conference on Factory Communication Systems (WFCS’24)”, Toulouse, France.
- 2023-10-04 - 2024-01-23 **Organizer**, “Samsung Innovation Campus”, Pavia, Italy.
- 2023-09-12 - 2023-09-15 **Track Chair**, “28th IEEE Conference Emerging Technologies and Factory Automation - Track 10 – Artificial Intelligence for Cyber-Physical Systems in Automation (ETFA’23)”, Sinaia, Romania.
- 2023-04-26 - 2023-04-28 **General Chair**, “19th IEEE International Conference on Factory Communication Systems (WFCS’23)”, Pavia, Italy.
- 2022-09-29 - 2022-11-24 **Organizer**, “Samsung Innovation Campus”, Pavia, Italy.
- 2022-09-06 - 2022-09-10 **Special Session Chair**, “27th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA’22)”, Stuttgart, Germany.
- 2022-04-27 - 2022-04-29 **General Chair**, “18th IEEE International Conference on Factory Communication Systems (WFCS’22)”, Pavia, Italy.
- 2021-10-15 - 2021-12-23 **Organizer**, “Samsung Innovation Campus”, Pavia, Italy.
- 2020-06-10 - 2020-06-12 **Track Chair**, “3rd IEEE International Conference on Industrial Cyber-Physical Systems - Track 3 on ICPS Engineering (ICPS’20)”, Tampere, Sweden.
- 2019-09-10 - 2019-09-13 **Track Chair**, “24th IEEE Conference Emerging Technologies and Factory Automation - Track 10 – Artificial Intelligence for Cyber-Physical Systems in Automation (ETFA’19)”, Zaragoza, Spain.
- 2019-06-20 **Organizer**, “Scientific Writing for Impact Factor Journals”, Pavia, Italy.

- 2018-09-04 - 2018-09-07 **Track Chair**, “23rd IEEE Conference Emerging Technologies and Factory Automation - New frontiers in Automation: Cyber-Physical Systems and Artificial Intelligence (ETFA’18)”, Turin, Italy.
- 2018-07-18 - 2018-07-20 **Session Chair**, “16th IEEE International Conference on Industrial Informatics - SS Virtual and Augmented Reality in Industrial Applications (INDIN’18)”, Porto, Portugal.
- 2018-07-24 - 2018-07-27 **Session Chair**, “15th IEEE International Conference on Industrial Informatics - SS Industry 4.0: Keeping Humans in the Loop and in Control (INDIN’17)”, Emden, Germany.
- 2010-11-09 **Organizer**, “Application development for Android”, Pavia, Italy.
- 2009-12-01 **Organizer**, “CyberRescue@RTSS2009”, Washington, DC, USA.
- 2008-11-04 **Organizer**, “International Meeting on Powerline for - but not limited to - Automotive”, Pavia, Italy.
- 2008-06-23 - 2008-06-25 **Organizer**, “Real-time Kernels for Microcontrollers: Theory and Practice”, Pisa, Italy.
- 2008-01-24 **Organizer**, “Fieldbuses for Automotive and the Powerline Alternative”, Pavia, Italy.

#### CHAIRMAN AT EVENTS

---

- 2021-09-08 *WiP6, 7 and 8: Computer Vision and Human-Machine Interaction in Industrial and Factory Automation & Intelligent Robots & Systems & Intelligent Sensors, Sensor Networks, and Information Processing (ETFA’21)*, Vasteras, Sweden.
- 2020-09-08 *25th IEEE International Conference on Emerging Technologies and Factory Automation - WiP Session (ETFA’20)*, Vienna, Austria.
- 2020-06-09 *Wireless Sensor Networks (WFCS’20)*, Linz, Austria.
- 2018-09-07 *Cyber-Physical Systems in Industrial and Manufacturing Applications (ETFA’18)*, Turin, Italy.
- 2018-09-06 *Localization and case studies (ETFA’18)*, Turin, Italy.
- 2017 *WiP session on Intelligent Sensors, Sensor Networks, and Information Processing (ETFA’17)*, Limassol, Cyprus.
- 2014 *Session on Real-time Scheduling (SIES’14)*, Pisa, Italy.
- 2008 *Session on Real-time Scheduling (ETFA’08)*, Hamburg, Germany.

#### PARTICIPATION TO EVENTS

---

##### Conferences

- 2023-04-26 - 2023-04-28 19th IEEE International Conference on Factory Communication Systems (WFCS’23), Pavia, Italy.
- 2022-04-27 - 2022-04-29 18th IEEE International Conference on Factory Communication Systems (WFCS’22), Pavia, Italy.

- 2019-09-10 - 2019-09-13 IEEE 23rd International Conference on Emerging Technologies and Factory Automation (ETFA'19), Zaragoza, Spain.
- 2018-09-04 - 2018-09-07 IEEE 22th International Conference on Emerging Technologies and Factory Automation (ETFA'18), Turin, Italy.
- 2018-05-17 - 2018-05-17 Congresso Nazionale Associazione Italiana di Illuminazione (AIDI'18), Rome, Italy.
- 2017-09-12 - 2017-09-15 IEEE 21th International Conference on Emerging Technologies and Factory Automation (ETFA'17), Limassol, Cyprus.
- 2017-05-15 - 2017-05-17 ACM International Conference on Computing Frontiers (CF'17), Siena, Italy.
- 2016-08-31 - 2016-09-02 19th Euromicro Conference on Digital Systems Design (DSD'16), Limassol, Cyprus.
- 2014-06-18 - 2014-06-20 IEEE 9th International Symposium on Industrial Embedded Systems (SIES'14), Pisa, Italy.
- 2013-03-24 - 2013-03-29 Third International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies (ENERGY'13), Lisbon, Portugal.
- 2012-09-17 - 2012-09-21 IEEE 16th International Conference on Emerging Technologies and Factory Automation (ETFA'12), Krakow, Poland.
- 2012-09-09 - 2012-09-12 2nd EnergyCon Conference & Exhibition (EnergyCon'12), Florence, Italy.
- 2010-11-04 - 2010-11-05 18th International Conference on Real-time and Network Systems (RTNS'10), Toulouse, France.
- 2010-03-22 - 2010-03-26 ACM 25th Symposium On Applied Computing (SAC'10), Sierre, Switzerland.
- 2009-09-22 - 2009-09-25 IEEE 14th International Conference on Emerging Technologies and Factory Automation (ETFA'09), Palma de Mallorca, Spain.
- 2008-09-15 - 2008-09-18 IEEE 13th International Conference on Emerging Technologies and Factory Automation (ETFA'08), Hamburg, Germany.
- 2008-08-25 - 2008-08-31 Third International Conference on Advances in Mesh Networks (MESH'08), Cap Esterel, France.
- 2007-07-04 - 2007-07-06 Euromicro Conference on Real-time Systems (ECRTS'07), Pisa, Italy.
- 2005-09-19 - 2005-09-22 IEEE 10th International Conference on Emerging Technologies and Factory Automation (ETFA'05), Catania, Italy.
- 2005-07-06 - 2005-07-08 Euromicro Conference on Real-time Systems (ECRTS'05), Palma de Mallorca, Spain.
- 2004-06-30 - 2004-07-02 Euromicro Conference on Real-time Systems (ECRTS'04), Catania, Italy.
- 2004-12-05 - 2004-12-08 IEEE Real-Time System Symposium (RTSS'04), Lisbona, Portugal.
- 2003-07-09 - 2003-07-11 IFAC 5th International Symposium on Intelligent Components and Instruments for Control Applications (SICICA'03), Aveiro, Portugal.

## Workshops

- 2018-07-13 - 2018-07-13 L'utilizzo dei droni per le ispezioni indoor, Pavia, Italy.
- 2018-07-03 - 2018-07-03 Workshop ENI-UNIPV, Milan, Italy.
- 2016-09-06 - 2016-09-06 10th International Workshop on Service-Oriented Cyber-Physical Systems in Converging Networked Environments (SOCNE'16), Berlin, Germany.
- 2010-04-12 - 2010-04-12 First International Workshop on Energy Aware Design and Analysis of Cyber Physical Systems (WEA-CPS), Stockholm, Sweden.
- 2004-06-29 - 2004-06-29 Third International Workshop on Real-Time Networks (RTN'04), Catania, Italy.
- 2003-07-01 - 2003-07-01 2nd International Workshop on Real-Time LANs in the Internet Age (RTLIA), Porto, Portugal.

## SUPERVISION OF THESES

Total Number of students: **225**

- 2024** D. Previte, M. Sundaravel, L. Iacopino, D. Ferrari.  
Total: **4**.
- 2023** L. D'Ettorre, F. Marinelli, F. Yvon Ulrich, A. Rotta, F. Bobba, E. Diana, T. Routhu, E. Guida, R. Negri, L. Contu, L. Francioli, M. Pandza, A. Rondla.  
Total: **13**.
- 2022** P. Barsanti, A. Frigatti, A. Rosati, A. Sgroi, T. Anto, V. Rigo, D. Modica, A. Oprea, S. Pezzi, M. Marchesi, A. Cremonesi, M. Martellotta, G. Lorini.  
Total: **13**.
- 2021** R. Giura, N. Cardillo, A. Blindu, F. Ceresa, A. Altamore, A. Barilati, S. Tartarotti, A. Coronelli, O. Gad Elrab Ali, F. Carella, D. Vetrano, B. Calicchio, L. Rogledi, N. Fasulo, N. Bonsi, D. Modica, G. Testa.  
Total: **17**.
- 2020** A. Catena, A. Giorgi, F. Riganti, S. Albini, A. Stella, M. Lagalla, G. Mirra, L. Cappucci, F. Musitano, A. Saraceno, A. Pasotti, F. Rossanigo, G. Confalonieri, G. Mirando, R. Doveri, H. Darab, F. Giudice, Y. Bhutani, F. Forni.  
Total: **19**.
- 2019** R. Zanaboni, A. Pompa, L. Colombo, N. Farina, S. Tallapureddy, M. Zippo, A. Curtioni, A. Aramini, G. Rapperini, G. Levantino, M. Orsolini, M. Bosio, R. Giura, C. Chen, G. Andreotti, F. Cipolla, M. Inchingolo, A. Bonandin, F. Amato, A. Milani, S. Nardi, M. Bergamaschi.  
Total: **22**.
- 2018** S. Colmi, R. Zorzato, P. Matti, L. Rogledi, A. Torlaschi, M. Prina, S. Colucci, A. Rossi, D. Giuffrida, D. Barattini, D. Galavotti, F. Tiranti, S. Firas, G. Gramazio.  
Total: **14**.
- 2017** M. Di Gaetano, F. Andronio, G. Restivo, Z. Mohammad, G. Mazzola, M. La Salvia, A. Aschei, S. Amedeo, A. Casadei, A. Bardini, A. Di Gioacchino, G. Marconi, E. Farina, A. Cavagna, N. Latella, S. Rigoni, G. Mirando, A. Bertini, M. Chinosi, F. Avarino, M. Robutti, Y. Bhutani, M. Lolla, S. Trenti Cordani, M. Ghiani, G. Boi.  
Total: **26**.

- 2016** M. Umeer, D. Lunghi, P. Tchonin, D. Speciale, F. Pozzoli, M. Semperboni, R. Zichittella, A. Bonandin, G. Rausa, F. Bianchi, A. Emmi, L. Pasi, G. Bellazzi, A. Milani, M. Leone, D. Sacchi, F. Cipolla.  
Total: **17**.
- 2015** A. Cardone, A. Fiammenghi, M. Koledoye, S. Colucci, A. Bardini, F. Andronio, N. Blago, S. Firas, P. Burda, A. Aschei, M. Cortesi, A. Lauria, L. Micieli, S. Amedeo, A. Di Gioacchino, N. Latella, S. Lazzeri, G. Restivo, C. Ukpabi, N. Panzeri, C. Conti, R. Spampinato, F. Rizzardini.  
Total: **23**.
- 2014** M. Carvani, A. Malinverni, A. Bersani, P. Tchonin, A. Gallo, A. Tramonte, G. Roveda, L. Migliorini, F. Bianchi, G. Vetrano, A. Meroni, V. Albini, C. Locatelli, M. Biglieri.  
Total: **14**.
- 2013** M. Meazza, A. Luppi, A. Covini.  
Total: **3**.
- 2012** D. Caprino, M. Carvani, A. Meroni, J. Balduzzi, D. Ciocca, S. Zanetti.  
Total: **6**.
- 2011** G. Roveda, A. Tramonte, C. Divita, P. Pepe, F. Bonini, D. Rebecchi, G. Benetti.  
Total: **7**.
- 2010** C. Checchi, G. Quartarone, M. Helmi, G. Vigani, A. Sangiorgi, P. Villani, D. Ciocca.  
Total: **7**.
- 2009** A. Lovisolo, S. Conso, L. Ventriglia, E. Di Palma, M. Foppiano, M. Ghibaudi, A. Savioli, S. Stella, D. Caprini, A. Morelli, M. Della Vedova.  
Total: **11**.
- 2008** F. Ballan, L. Pasotti, M. Pala, S. Piazza.  
Total: **4**.
- 2006** A. De Berti, G. Di Maria.  
Total: **2**.
- 2005** C. Polgatti.  
Total: **1**.
- 2004** A. Scova.  
Total: **1**.
- 2003** E. Tavani.  
Total: **1**.

## SUPERVISION OF PHD STUDENTS

- 2009 - 2012 Marco Luigi Della Vedova, [Real-time Physical Systems and Electric Load Scheduling](#)
- 2010 - 2011 Ettore Di Palma
- 2011 - 2014 Guido Benetti, [Support Technologies for the Advanced Management of Electricity Networks](#)
- 2012 - 2015 Davide Caprino, [Real-Time Scheduling Applications to Electric Load Management](#)

- 2014 - 2017 Gianluca Roveda, [Mining Git based Software Repositories](#)
- 2014 - 2017 Alessandro Tramonte, [Distributed Communication and Coordination for Smart Cyber-Physical Devices](#)
- 2014 - 2017 Daniele De Martini, [Actuation Management of a Quadcopter with Double Axis Tilting Rotors](#)
- 2015 - 2018 Moses Koledoye, [Cooperative Indoor Localization under Uncertainties](#)
- 2016 - 2019 Iman Hisham Jamil Abu Hashish, [Applied Data Science Approaches in FinTech: Innovative Models for Bitcoin Price Dynamics](#)
- 2017 - 2017 Paulin Tchouin
- 2018 - 2021 Davide Giuffrida, [A Semi-Supervised Machine Learning Framework for Systematic Literature Reviews](#)
- 2018 - 2021 Giuseppe Citterio, [Application of the OEE to a Service Company](#)
- 2019 - 2020 Paritosh Jha, [A novel ensemble technique and their applications to credit risk management](#)
- 2023 - today Thomas Routhu

#### SUPERVISION IN INTERNATIONAL INTERNSHIP

---

- 2022-02-01 - 2022-04-29 Lileikis Vaidas - Kaunos Technologuos Universistetas (Lithuania).
- 2015-06 - 2015-07 Ankur Soni - B.Tech EEE (India).
- 2015-06 - 2015-07 Aman Kumar - B.Tech EEE (India).
- 2015-06 - 2015-07 Shivam Prabhaka - B.Tech EEE (India).
- 2010-07 - 2010-09 Nicolas Floquet - Toulouse (France).
- 2009-11 - 2010-04 Manohar Vanga - India.

#### TECHNICAL PROGRAM COMMITTEES

---

- 2024 **ETFA'24** – *29th IEEE Conference Emerging Technologies and Factory Automation - Track 8 - Advanced Sensing Technologies in the Industrial Internet of Things Era* (inv. by Luca Leonardi, Inés Álvarez).
- ETFA'24** – *29th IEEE Conference Emerging Technologies and Factory Automation - Track 6 - Computer Vision and Human-Machine Interaction in Industrial and Factory Automation* (inv. by Giancarlo Iannizzotto, Javier Silvestre-Blanes).
- SAC'24** – *The 39th ACM Symposium on Applied Computing - Cyber-Physical Systems (CPS) Track* (inv. by Mengying Zhao, Qiao Li, Jingtong Hu).

- 2023** **DASC'23** – 21st IEEE International Conference on Dependable, Autonomic & Secure Computing (inv. by Müge Erel-Özçevik).
- HIEMI'23** – 2nd International Workshop on Hybrid Internet of Everything Models for Industry 5.0 (inv. by Francesco Cauteruccio).
- ETFA'23** – 28th IEEE Conference Emerging Technologies and Factory Automation - Track 6 - Computer Vision and Human-Machine Interaction in Industrial and Factory Automation (inv. by Giancarlo Iannizzotto, Javier Silvestre-Blanes).
- ETFA'23** – 28th IEEE Conference Emerging Technologies and Factory Automation - Track 8 - Intelligent Sensors, Sensor Networks, and Information Processing (inv. by Frank Golatowski, Alessandro Biondi).
- ISIE'23** – 32nd IEEE International Symposium on Industrial Electronics - Track Industrial Informatics: Cloud Computing, Big Data, AI, Informatics and Software Engineering (inv. by Marco Porta).
- ICPS'23** – 6th IEEE International Conference on Industrial Cyber-physical Systems - Track ICPS Engineering (inv. by Wenkai Hu).
- SAC'23** – The 38th ACM Symposium on Applied Computing - Cyber-Physical Systems (CPS) Track (inv. by Qiao Li, Pi-Cheng Hsiu, Jingtong Hu).
- 
- 2022** **HIEMI'22** – 1st International Workshop on Hybrid Internet of Everything Models for Industry 5.0 (inv. by Francesco Cauteruccio, Giorgio Terracina, Domenico Ursino).
- INDIN'22** – 20th IEEE International Conference on Industrial Informatics - Real-time and networked embedded computing, Industrial IoT technologies and applications track (inv. by Gaetano Patti).
- INTELLI'22** – The Eleventh International Conference on Intelligent Systems and Applications (inv. by Claus-Peter Rueckeman, Pascal Lorenz).
- ETFA'22** – 27th IEEE Conference Emerging Technologies and Factory Automation - Track 10 - Artificial Intelligence for Cyber Physical Systems in Automation (inv. by Daswin De Silva, Stamatis Karnouskos).
- ETFA'22** – 27th IEEE Conference Emerging Technologies and Factory Automation - Track 8 - Intelligent Sensors, Sensor Networks, and Information Processing (inv. by Frank Golatowski, Alessandro Biondi).
- ETFA'22** – 27th IEEE Conference Emerging Technologies and Factory Automation - Track 6 - Computer Vision and Human-Machine Interaction in Industrial and Factory Automation (inv. by Giancarlo Iannizzotto, Javier Silvestre-Blanes).
- ICIT'22** – 23rd IEEE International Conference on Industrial Technology - Track on Cloud Computing, Big Data and Software Engineering (inv. by Kang-Hyun Jo, Marco Porta, Yang Shi).
- 
- 2021** **ETFA'21** – 26th IEEE Conference Emerging Technologies and Factory Automation - Track 10 - Artificial Intelligence for Cyber-Physical Systems in Automation (inv. by Daswin De Silva, Stamatis Karnouskos).
- ETFA'21** – 26th IEEE Conference Emerging Technologies and Factory Automation - Track 8 - Intelligent Sensors, Sensor Networks, and Information Processing (inv. by Frank Golatowski, Stefano Vitturi).
- ETFA'21** – 26th IEEE Conference Emerging Technologies and Factory Automation - Track 6 - Computer Vision and Human-Machine Interaction in Industrial and Factory Automation (inv. by Giancarlo Iannizzotto, Javier Silvestre-Blanes).
- INDIN'21** – 19th IEEE International Conference on Industrial Informatics - Real-time and networked embedded computing and IoT technologies and applications (inv. by Gaetano Patti, Paulo Pedreiras, Reza Abrishambaf, Frank Golatowski).
- WFCS'21** – 17th IEEE International Conference on Factory Communication Systems (inv. by Leander Hörmann, Thilo Sauter, Emiliano Sisinni).
- ICPS'21** – IEEE International Conference on Industrial Cyber-physical Systems - Track ICPS Engineering.
- SAC'21** – The 36th ACM/SIGAPP Symposium On Applied Computing (inv. by Pi-Cheng Hsiu, Song Han, Jason Xue).

- 2020** **ETFA'20** – 24th IEEE Conference Emerging Technologies and Factory Automation - Track 6 - Computer Vision and Human-Machine Interaction in Industrial and Factory Automation (inv. by Marco Porta).  
**SAC'20** – 2nd Societal Automation Conference - Track on Communication Systems in Societal Automation (inv. by Paulo Pedreiras).  
**SMARTGREENS'20** – 8th International Conference on Smart Cities and Green ICT Systems (inv. by Monica Saramago).
- 2019** **ETFA'19** – 24th IEEE Conference Emerging Technologies and Factory Automation - Track on Computer Vision, Computational Intelligence, and Modern Heuristics in Automation (inv. by Marco Porta).  
**ICPS'19** – IEEE International Conference on Industrial Cyber-physical Systems (inv. by Antonio Luque).  
**SMARTGREENS'19** – 7th International Conference on Smart Cities and Green ICT Systems (inv. by Lucia Gomes).
- 2018** **RTCSA'18** – 24th IEEE International Conference on Embedded and Real-Time Computing Systems and Applications - Real-Time Systems Track (inv. by Kaori Fujinami).  
**DIDAMATICA'18** – 32ma DIDAttica inforMATICA (inv. by Giovanni Adorni).  
**ETFA'18** – 23rd IEEE Conference Emerging Technologies and Factory Automation - Track on Computer Vision, Computational Intelligence, and Modern Heuristics in Automation (inv. by Marco Porta).  
**SIES'18** – 13th IEEE International Symposium on Industrial Embedded Systems (inv. by Roberto Passerone, Stig Petersen).  
**INDIN'18** – 16th International Conference of Industrial Informatics - Real-Time and Networked Embedded Computing Track (inv. by Luis Miguel Pinho, Dietmar Bruckner, Moris Behnam).  
**ICPS'18** – 1st IEEE International Conference on Industrial Cyber-Physical Systems (inv. by A. W. Colombo, Y. Shi, J. Lastra, S. Karnouskos).  
**SMARTGREENS'18** – 7th International Conference on Smart Cities and Green ICT Systems (inv. by Ana Guerreiro).
- 2017** **SOCNE'17** – 11th Workshop on Service Oriented Architectures in Converging Networked Environments (inv. by Lucia Lo Bello, Christoph Niedermeier).  
**DIDAMATICA'17** – 31ma DIDAttica inforMATICA (inv. by Michele Missikoff).  
**RTCSA'17** – 23rd IEEE International Conference on Embedded and Real-Time Computing Systems and Applications - IoT, CPS, and Emerging Applications Track (inv. by Luis Almeida).  
**DEPEND'17** – The Tenth International Conference on Dependability (inv. by Claus-Peter Rueckemann, Pascal Lorenz).  
**SIES'17** – 12th IEEE International Symposium on Industrial Embedded Systems (inv. by Jean-Luc Scharbarg, Richard Zurawski, Zoubir Mammeri).  
**ENERGY'17** – The Seventh International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies (inv. by Claus-Peter Rueckemann, Pascal Lorenz).  
**ETFA'17** – 22nd IEEE Conference Emerging Technologies and Factory Automation - Track on Cyber-Physical Systems and Smart Networked Systems (inv. by Frank Golatowski, Oliver Niggeman).  
**SMARTGREENS'17** – 6th International Conference on Smart Cities and Green ICT Systems (inv. by Ana Guerreiro).



- 2016** **SOCNE'16** – *10th Workshop on Service Oriented Architectures in Converging Networked Environments* (inv. by Lucia Lo Bello, Michael Ditze, Christoph Niedermeier, and Frank Golatowski).  
**DIDAMATICA'16** – *30ma DIDAttica inforMATICA* (inv. by Pier Luca Montessoro and Daniela Rovina).  
**SIES'16** – *11th IEEE International Symposium on Industrial Embedded Systems* (inv. by Roman Obermaisser, Haibo Zeng).  
**ENERGY'16** – *The Sixth International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies* (inv. by Claus-Peter Rueckemann, Pascal Lorenz).
- 2015** **SOCNE'15** – *9th Workshop on Service Oriented Architectures in Converging Networked Environments* (inv. by Frank Golatowski, Lucia Lo Bello).  
**ETFA'15** – *20th IEEE International Conference on Emerging Technologies and Factory Automation - Track on Real-Time and (Networked) Embedded Systems (RTNES)* (inv. by Marko Bertogna, Ahlem Mifdaoui).  
**SIES'15** – *10th IEEE International Symposium on Industrial Embedded Systems* (inv. by Achim Rettberg and Marco Di Natale).  
**ENERGY'15** – *The Fifth International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies* (inv. by Constantin Paleologu and Petre Dini).
- 2014** **SIES WiP'14** – *9th IEEE International Symposium on Industrial Embedded Systems - Work in Progress* (inv. by Marco Di Natale).  
**ETFA'14** – *19th IEEE International Conference on Emerging Technologies and Factory Automation - Track on Real-Time and (Networked) Embedded Systems* (inv. by Jose L. Ayala, Thomas Nolte).  
**ARCS'14** – *The 27th International Conference on Architecture of Computing Systems* (inv. by Wolfgang Karl, Eduardo Tovar).  
**SIES'14** – *9th IEEE International Symposium on Industrial Embedded Systems* (inv. by Giorgio Buttazzo).  
**ENERGY'14** – *The Fourth International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies* (inv. by Petre Dini).  
**SOCNE'14** – *8th International Workshop on Service-Oriented Architectures in Converging Networked Environments* (inv. by Lucia Lo Bello).  
**DIDAMATICA'14** – *28ma DIDAttica inforMATICA* (inv. by Flora Amato).
- 2013** **ETFA'13** – *18th IEEE International Conference on Emerging Technologies and Factory Automation - Track on Real-Time and (Networked) Embedded Systems* (inv. by Marco Di Natale, Juergen Teich).  
**ENERGY'13** – *The Third International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies* (inv. by Petre Dini).  
**SIES'13** – *8th IEEE International Symposium on Industrial Embedded Systems* (inv. by Karl-Erik Årz'en, Roberto Passerone).  
**DIDAMATICA'13** – *27ma DIDAttica inforMATICA* (inv. by Giorgio Buttazzo).
- 2012** **SIES'12** – *7th IEEE International Symposium on Industrial Embedded Systems* (inv. by Samarjit Chakraborty, Thomas Nolte).  
**ETFA'12** – *17th IEEE International Conference on Emerging Technologies and Factory Automation - Track on Real-Time and (Networked) Embedded Systems* (inv. by Lucia Lo Bello, Marco Di Natale).  
**RTAS'12** – *18th IEEE Real-Time and Embedded Technology and Applications Symposium* (inv. by Marco Di Natale).

- 2011 **RTNS'11** – 19th International Conference on Real-time and Network Systems (inv. by Alan Burns, Laurent George).  
**ETFA'11** – 16th IEEE International Conference on Emerging Technologies and Factory Automation - Track on Real-Time and (Networked) Embedded Systems (inv. by Thomas Nolte).  
**SIES'11** – 6th IEEE Symposium on Industrial Embedded Systems (inv. by Roberto Passerone).  
**MESH'11** – 4th International Conference on Advances in Mesh Networks (inv. by Petre Dini).  
**ICCESS'11** – 8th IEEE International Conference on Embedded Software and Systems IEEE (inv. by Jian-Jia Chen).  
**ETFA'11** – 16th IEEE International Conference on Emerging Technologies and Factory Automation - WiP - Industry Practice - Workshops (inv. by Thomas Nolte).
- 2010 **RTNS'10** – 18th International Conference on Real-time and Network Systems (inv. by Sanjoy Baruah, Yves Sorel).  
**WEA-CPS'10** – 1st International Workshop on Energy Aware Design and Analysis of Cyber Physical Systems (inv. by Radu Dobrin).  
**EMC'10** – 5th International Conference on Embedded and Multimedia Computing - Real-time systems track (inv. by Thomas Nolte).  
**ETFA'10** – 15th IEEE International Conference on Emerging Technologies and Factory Automation - Track on Real-Time and (Networked) Embedded Systems (inv. by Thomas Nolte).  
**MESH'10** – 3rd International Conference on Advances in Mesh Networks (inv. by Petre Dini).  
**HSI'10** – 3rd International Conference on Human System Interaction - Special Session on Human System Interaction and Wireless Sensor Network (inv. by Lucia Lo Bello).  
**RTAS'10** – 16th IEEE Real-Time and Embedded Technology and Applications Symposium - Wireless Sensor Network track (inv. by Hakan Aydin).
- 2009 **13th IBIMA Conference on Knowledge Management and Innovation in Advancing Economies** (inv. by Khalid S. Soliman).  
**MESH'09** – 2nd International Conference on Advances in Mesh Networks (inv. by Petre Dini).  
**ETFA'09** – 14th IEEE International Conference on Emerging Technologies and Factory Automation - Track on Real-Time and (Networked) Embedded Systems (inv. by Thomas Nolte).  
**RTNS'09** – 17th International Conference on Real-time and Network Systems (inv. by Maryline Chetto).
- 2008 **MESH'08** – 1st International Conference on Advances in Mesh Networks (inv. by Petre Dini).  
**ETFA'08** – 13th IEEE International Conference on Emerging Technologies and Factory Automation - Track on Real-Time and (Networked) Embedded System (inv. by Thomas Nolte).  
**RTNS'08** – 16th International Conference on Real-time and Network Systems (inv. by Pascale Minet).

---

**EVALUATION COMMITTEE  
 (NATIONAL AND  
 INTERNATIONAL)**

- 2018-11-30 Committee for the evaluation of the PhD defense of Alessio Balsini and Luigi Pannocchi at the Scuola Superiore S. Anna, Pisa (Italy).
- 2016-05-16 Committee for the evaluation of the PhD defense of Pasquale Buonocunto at the Scuola Superiore S. Anna, Pisa (Italy).
- 2014 Evaluator for several Italian national projects “SIR 2014”.
- 2014-09-26 Committee for the evaluation of the PhD defense of Juri Lelli and Mario Bambagini at the Scuola Superiore S. Anna, Pisa (Italy).

- 2012-11-29 Committee member (*opponent*) for the evaluation of the *Intermediate PhD License* of Abhilash Thekkilakattil at the *Malardalen University* (Sweden).
- 2012-05-24 Committee for the evaluation of the PhD defense of Antonio Romano at the Scuola Superiore S. Anna, Pisa (Italy).
- 2012-01-19 Committee for the evaluation of the PhD defense of Dario Faggioli, Alessandro Mignogna and Francesco Esposito at the Scuola Superiore S. Anna, Pisa (Italy).
- 2010-12-10 Committee for the evaluation of the PhD defense of Gang Yao at the Scuola Superiore S. Anna, Pisa (Italy).
- 2009-06-18 - 2009-06-19 Participation as a *member of the evaluation committee* for two positions of Assistant Professor of Computer Science at the Scuola Superiore di Studi Universitari e di Perfezionamento Sant'Anna (Pisa). Reference: D.D. N. 183 - 16/03/2009; announced on the Gazzetta Ufficiale n. 25 - 31/03/2009.

COLLABORATION WITH PUBLIC ORGANIZATIONS

- 2006-11-01 - 2007-02-28 Contract with the Scuola Superiore degli Studi Sant'Anna in Pisa (Italy) to work on the following topic "*Development of real-time control applications and support to Erika and Shark operating systems*".
- 2006-06-15 - 2006-09-30 Contract with the University of Pavia to work on the following topic "*Support to the development of device driver for the Shark operating system*", funded by a MIUR-PRIN Italian project.
- 2005-10-01 - 2006-09-30 Contract with the University of Pavia to work on the following topic "*Support to the development of distributed real-time systems*", funded by a MIUR-PRIN Italian project.
- 2004-11-02 - 2005-09-30 Contract with the University of Pavia to work on the following topic "*Wireless communication in distributed systems*", funded by the European project "*ARTIST*".
- 2003-07-23 - 2003-11-15 Contract with the University of Pavia to work on the following topic "*Study of embedded systems for distributed applications*", funded by the European project "*ARTIST*".
- 2002-01-10 - 2003-01-01 Contract with the University of Pavia to work on the following topic "*High performance processing for applications with high computational requirements and real-time constraints*", funded by the Italian project "*Cofin 2001 Murst*".

PUBLICATIONS

2023

- 91. Maurizio Atzori, Angelo Ciaramella, Claudia Diamantini, Beniamino Di Martino, Salvatore Distefano, **Tullio Facchinetti**, Fabrizio Montecchiani, Antonino Nocera, Giancarlo Ruffo, and Roberto Trasarti, "*Dataspaces: Concepts, Architectures and Initiatives*", in Proc. of ITADATA 2023, Sep, 2023.

2022

- 90. **Tullio Facchinetti**, and Giuseppe Citterio, "*Application of the Overall Equipment Effectiveness to a Service Company*", in IEEE Access, Vol. 10, pp. 106613-106640, 2022.

89. **Tullio Facchinetti**, Marco Arazzi, and Antonino Nocera, "*Time series forecasting for predictive maintenance of refrigeration systems*", in 2022 IEEE Intl Conf on Dependable, Automatic and Secure Computing, Intl Conf on Pervasive Intelligence and Computing, Intl Conf on Cloud and Big Data Computing, Intl Conf on Cyber Science and Technology Congress (DASC/PiCom/CBDCCom/CyberSciTech), pp. 1-6, 2022.
88. Alberico Aramini, Marco Arazzi, **Tullio Facchinetti**, Laurence S. Q. N. Ngankem, and Antonino Nocera, "*An enhanced behavioral fingerprinting approach for the Internet of Things*", in Proceedings of the IEEE International Workshop on Factory Communication Systems (WFCS), 2022.
87. **Tullio Facchinetti**, Guido Benetti, Davide Giuffrida, and Antonino Nocera, "*slr-kit: A semi-supervised machine learning framework for systematic literature reviews*", in Knowledge-Based Systems, Elsevier, Vol. 251, pp. 109266, 2022.

2021

86. **Tullio Facchinetti**, Rodolfo Metulini, and Paola Zuccolotto, "*Filtering active moments in basketball games using data from players tracking systems*", in Annals of Operations Research, Springer, Nov, 16, 2021.

2020

85. **Tullio Facchinetti**, Andrea Bonandin, Guido Benetti, and Daniele De Martini, "*Distributed architecture for a smart LEDs display system based on MQTT*", in 25th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA), pp. 1243-1246, 2020.
84. Mirto Musci, Daniele De Martini, Nicola Blago, **Tullio Facchinetti**, and Marco Piastra, "*Online Fall Detection using Recurrent Neural Networks on Smart Wearable Devices*", in IEEE Transactions on Emerging Topics in Computing, pp. 1-1, 2020.
83. Daniele De Martini, and **Tullio Facchinetti**, "*Fault Detection of Electromechanical Actuators via Automatic Generation of a Fuzzy Index*", in IEEE/ASME Transactions on Mechatronics, Vol. 25, No. 5, pp. 2197-2207, 2020.

2019

82. Guido Benetti, Gianluca Roveda, Davide Giuffrida, and **Tullio Facchinetti**, "*Coderiu: a cloud platform for computer programming e-learning*", in Proceedings of the 17th IEEE International Conference on Industrial Informatics (INDIN), Helsinki-Espoo, Finland, July, 2019.
81. Davide Giuffrida, Guido Benetti, Daniele De Martini, and **Tullio Facchinetti**, "*Fall Detection with Supervised Machine Learning using Wearable Sensors*", in Proceedings of the 17th IEEE International Conference on Industrial Informatics (INDIN), Helsinki-Espoo, Finland, July, 2019.
80. Iman Abu Hashish, Fabio Forni, Gianluca Andreotti, Shiva Darjani, and **Tullio Facchinetti**, "*A Hybrid Model for Bitcoin Prices Prediction using Hidden Markov Models and Optimized LSTM Networks*", in Proceedings of the 24th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA), Zaragoza, Spain, pp. 721-728, September, 2019.
79. **Tullio Facchinetti**, Rodolfo Metulini, and Paola Zuccolotto, "*Detecting and classifying moments in basketball matches using sensor tracked data*", Smart Statistics for Smart Applications - Book of Short Papers SIS 2019, Giuseppe Arbia, Stefano Peluso, Alessia Pini, Giulia Rivellini, 2019.

78. Moses A. Koledoye, **Tullio Facchinetti**, and Luis Almeida, "*Improved MDS-based Localization with Non-line-of-sight RF Links*", in *Journal of Intelligent & Robotic Systems*, Springer Netherlands, April, 23, 2019.

2018

77. Moses Ayodele Koledoye, Daniele De Martini, Simone Rigoni, and **Tullio Facchinetti**, "*A Comparison of RSSI Filtering Techniques for Range-based Localization*", in *Proceedings of the 23rd IEEE International Conference on Emerging Technologies and Factory Automation (ETFA)*, Turin, Italy, pp. 761-767, September, 2018.
76. Daniele De Martini, Guido Benetti, and **Tullio Facchinetti**, "*Cyber/physical interplay in the real-time scheduling for peak load optimization of electric loads*", in *Proceedings of the 1st IEEE International Conference on Industrial Cyber-Physical Systems (ICPS)*, S. Peterburg, Russia, May, 2018.
75. Moses Koledoye, **Tullio Facchinetti**, and Luis Almeida, "*Mitigating effects of NLOS propagation in MDS-based localization with anchors*", in *Proceedings of the 18th IEEE International Conference on Autonomous Robot Systems and Competitions (ICARSC)*, Torres Vedras, Portugal, pp. 148-153, April, 2018.
69. Daniele De Martini, Andrea Bonandin, and **Tullio Facchinetti**, "*eduMorse: An Open-Source Framework for Mobile Robotics Education*", *Robotics in Education: Latest Results and Developments*, Lepuschitz, Wilfried and Merdan, Munir and Koppensteiner, Gottfried and Balogh, Richard and Obdrzalek, David, Springer International Publishing, pp. 289–300, 2018.

2017

74. Federico Bianchi, **Tullio Facchinetti**, and Paola Zuccolotto, "*Role revolution: towards a new meaning of positions in basketball*", in *Electronic Journal of Applied Statistical Analysis (Special Issue STATISTICS IN SPORTS)*, Università del Salento, Vol. 10, No. 3, pp. 712-734, 2017.
73. Moses A. Koledoye, Daniele De Martini, Massimo Carvani, and **Tullio Facchinetti**, "*Design of a Mobile Robot for Air Ducts Exploration*", in *Robotics*, MDPI, Vol. 6, No. 4, 2017.
72. Moses A. Koledoye, **Tullio Facchinetti**, and Luis Almeida, "*MDS-based localization with known anchor locations and missing tag-to-tag distances*", in *22nd IEEE International Conference on Emerging Technologies and Factory Automation (ETFA)*, pp. 1-4, September, 2017.
71. Alessandro Tramonte, Guido Benetti, Luca Carraro, Marcello Simonetta, Guido Giuliani, and **Tullio Facchinetti**, "*Multi-hop communication for adaptive and self-configuring smart cyber-physical luminous tiles*", in *22nd IEEE International Conference on Emerging Technologies and Factory Automation (ETFA)*, pp. 1-9, September, 2017.
70. Daniele De Martini, Gianluca Roveda, Alessandro Bertini, Agnese Marchini, and **Tullio Facchinetti**, "*A Framework for Automatic Generation of Fuzzy Evaluation Systems for Embedded Applications*", in *Proceedings of the 9th International Joint Conference on Computational Intelligence - Volume 1 (IJCCI)*, Funchal, Madeira, Portugal, pp. 281-288, November, 2017.
68. Daniele De Martini, Guido Benetti, Marco L. Della Vedova, and **Tullio Facchinetti**, "*Adaptive Real-Time Scheduling of Cyber-Physical Energy Systems*", in *ACM Transactions on Cyber-Physical Systems*, ACM, Vol. 1, No. 4, pp. 1–25, September, 2017.

67. M. Simonetta, L. Carraro, G. Benetti, A. Tramonte, **T. Facchinetti**, and G. Giuliani, "Low-cost optical wireless communication system for video signal distribution in the LUMENTILE™ project", in IET Conference Proceedings, 2017.
66. L. Carraro, M. Simonetta, G. Benetti, A. Tramonte, G. Capelli, M. Benedetti, E. M. Randone, A. Ylisaukko-Oja, K. Keränen, **T. Facchinetti**, and G. Giuliani, "Lighting system with high power LEDs, light management structure, and large-area electronics in the LUMENTILE™ European Project", in IET Conference Proceedings, pp. 21 (4 .)-21 (4 .)(1), 2017.
65. Daniele De Martini, Giuseppe Valerio Gramazio, Alessandro Bertini, Carlo Rottenbacher, and **Tullio Facchinetti**, "Design and Modeling of a Quadcopter with Double Axis Tilting Rotors", in Unmanned Systems, World Scientific, Vol. 05, No. 03, pp. 169-180, 2017.
64. Daniele De Martini, Guido Benetti, Filippo Cipolla, Davide Caprino, Marco L. Della Vedova, and **Tullio Facchinetti**, "Peak load optimization through 2-dimensional packing and multi-processor real-time scheduling", in Proceedings of ACM International Conference on Computing Frontiers (CF'17), Siena, Italy, pp. 275-278, May, 2017. \*\*\*\* BEST SHORT PAPER AWARD \*\*\*\*
63. **Tullio Facchinetti**, Guido Benetti, Alessandro Tramonte, Luca Carraro, Mauro Benedetti, Enrico Maria Randone, Marcello Simonetta, Giorgio Capelli, Kimmo Keranen, Arto Ylisaukko-oja, Angelo Consoli, Jaouhar Ayadi, and Guido Giuliani, "Luminous tiles: a new building device for smart architectures and applications", in Microprocessors and Microsystems, Elsevier, Vol. 51, pp. 198-208, 2017.
62. Luca Carraro, A. Mäyrä, Marcello Simonetta, Guido Benetti, Alessandro Tramonte, Mauro Benedetti, Enrico Maria Randone, Arto Ylisaukko-Oja, Kimmo Keränen, **Tullio Facchinetti**, and Guido Giuliani, "Design of a backlighting structure for very large-area luminaries", in Proc. SPIE 10126, Advances in Display Technologies VII, 1012603, February, 2017.
61. Luca Carraro, Marcello Simonetta, Guido Benetti, Alessandro Tramonte, G. Capelli, Mauro Benedetti, Enrico Maria Randone, Arto Ylisaukko-oja, Kimmo Keränen, **Tullio Facchinetti**, and Guido Giuliani, "Design of a lighting system with high-power LEDs, large area electronics, and light management structure in the LUMENTILE European project", in Proc. SPIE 10124, Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XXI, 1012419, February, 2017.

## 2016

60. **Tullio Facchinetti**, Guido Benetti, Alessandro Tramonte, Luca Carraro, Mauro Benedetti, Enrico Maria Randone, Marcello Simonetta, Giorgio Capelli, and Guido Giuliani, "Luminous tiles: a new smart device for buildings and architectures", in 19th Euromicro Conference on Digital Systems Design (DSD), Limassol, Cyprus, pp. 348–355, August, 2016.
59. **Tullio Facchinetti**, Guido Benetti, Moses A. Koledoye, and Gianluca Roveda, "Design and implementation of a web-centric remote data acquisition system", in Proceedings of the 10th International Workshop on Service-Oriented Cyber-Physical Systems in Converging Networked Environments (SOCNE), Berlin, Germany, pp. 1-8, September, 2016.
58. Behzad Bayat, Julita Bermejo-Alonso, Joel Carbonera, **Tullio Facchinetti**, Sandro Fiorini, Paulo Goncalves, Vitor A.M. Jorge, Maki Habib, Alaa Khamis, Kamilo Melo, Bao Nguyen, Joanna Isabelle Olszewska, Liam Paull, Edson Prestes, Veera Ragavan, Sajad Saeedi, Ricardo Sanz, Mae Seto, Bruce Spencer, Amirhosro Vosoghi, and Howard Li, "Requirements for building an ontology for autonomous robots", in Industrial Robot: An International Journal, Vol. 43, No. 5, pp. 469–480, 2016.

55. Guido Benetti, Davide Caprino, Marco L. Della Vedova, and **Tullio Facchinetti**, "*Electric Load Management approaches for peak load reduction: a systematic literature review and state of the art*", in Sustainable Cities and Society, Vol. 20, pp. 124–141, 2016.

2015

57. Davide Caprino, Marco L. Della Vedova, and **Tullio Facchinetti**, "*Applying limited-preemptive scheduling to peak load reduction in smart buildings*", in IEEE 20th Conference on Emerging Technologies Factory Automation (ETFA), Luxemburg, pp. 1–8, September, 2015.
56. Amr Nagaty, Carl Thibault, Michael Trentini, **Tullio Facchinetti**, and Howard Li, "*Construction, modeling and control of a quadrotor for target localization*", in IEEE 28th Canadian Conference on Electrical and Computer Engineering (CCECE), Halifax, Nova Scotia, Canada, pp. 308-313, May, 2015.
54. Guido Benetti, Maurizio Delfanti, **Tullio Facchinetti**, Davide Falabretti, and Marco Merlo, "*Real-Time Modeling and Control of Electric Vehicles Charging Processes*", in IEEE Transactions on Smart Grid, Vol. 6, No. 3, pp. 1375-1385, May, 2015.
50. Claudio Cusano, **Tullio Facchinetti**, Cristiana Larizza, Eleonora Losiouk, Alessandro Tramonte, and Daniele De Martini, "*Programmazione In Linguaggio C. Problemi E Temi Svolti*", Medea Editore, 2015. \*ITALIAN\*

2014

53. **Tullio Facchinetti**, Guido Benetti, and Marco Luigi Della Vedova, "*Modeling and real-time control of an industrial air multi-compressor system*", in 9th IEEE International Symposium on Industrial Embedded Systems (SIES), Pisa, Italy, 18–20, June, 2014.
52. Guido Benetti, Andrea Bianchin, Maurizio Delfanti, **Tullio Facchinetti**, Davide Falabretti, and Marco Merlo, "*Management of electric vehicles charging processes in a DSO control center*", in Proceedings of Challenges of Implementing Active Distribution System Management (CIRED), Rome, Italy, 11–12, June, 2014.
51. Davide Caprino, Marco L. Della Vedova, and **Tullio Facchinetti**, "*Peak shaving through real-time scheduling of household appliances*", in Energy and Buildings, Vol. 75, No. 0, pp. 133–148, 2014.

2013

49. **Tullio Facchinetti**, Cristiana Larizza, and Alessandro Rubini, "*Dalla A alla Z passando per C*", Maggioli Editore, Rimini, Italy, 2013. \*ITALIAN\*
48. Marco Luigi Della Vedova, and **Tullio Facchinetti**, "*Real-Time Scheduling for Peak Load Reduction in a Large Set of Heating, Ventilation and Air-Conditioning loads*", in Proceedings of the Third International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies (Energy), Lisbon, Portugal, pp. 161–166, April, 2013. \*\*\*\* BEST PAPER AWARD \*\*\*\*
47. **Tullio Facchinetti**, "*The Many Faces of Real-Time Scheduling Applied to Power Load Management*", in Proceedings of the Third International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies (Energy), Lisbon, Portugal, pp. 59–64, April, 2013.

46. Luca Massimiliano Capisani, **Tullio Facchinetti**, Antonella Ferrara, and Alessandro Martinelli, "*Obstacle Modelling Oriented to Safe Motion Planning and Control for Planar Rigid Robot Manipulators*", in Journal of Intelligent & Robotic Systems, Springer Netherlands, Vol. 71, No. 2, pp. 159-178, 2013.

2012

45. Sergio Malcevski, Agnese Marchini, Dario Savini, and **Tullio Facchinetti**, "*Opportunities for Web-Based Indicators in Environmental Sciences*", in PLoS ONE, Public Library of Science, Vol. 7, No. 8, pp. e42128, August, 2012.
44. Marco L. Della Vedova, and **Tullio Facchinetti**, "*Real-Time scheduling for industrial load management*", in Proceeding of the 2nd Conference and Exhibition (ENERGYCON), Florence, Italy, pp. 707–713, September, 2012.
43. Guido Benetti, and **Tullio Facchinetti**, "*A self-configuration protocol for a cover made of smart tiles*", in Proceedings of 17th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA WiP), Krakow, Poland, September, 2012.
42. Marco L. Della Vedova, and **Tullio Facchinetti**, "*Feedback Scheduling of Real-Time Physical Systems with Integrator Dynamics*", in Proceedings of 17th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA), Krakow, Poland, pp. 1-8, September, 2012.
41. Marco L. Della Vedova, Matteo Rubagotti, **Tullio Facchinetti**, and Antonella Ferrara, "*Platooning control of autonomous nonholonomic mobile robots in a human-robot coexisting environment*", in Proceeding of the American Control Conference (ACC), Montreal, Canada, pp. 6569-6574, June, 2012.

2011

40. Marco Luigi Della Vedova, Ettore Di Palma, and **Tullio Facchinetti**, "*Electric Loads as Real-Time tasks: an application of Real-Time Physical Systems*", in Proceeding of the 7th International Wireless Communications and Mobile Computing Conference (IWCMC), Istanbul, Turkey, pp. 1117-1123, July, 2011.
39. **Tullio Facchinetti**, and Marco Della Vedova, "*Real-Time Modeling for Direct Load Control in Cyber-Physical Power Systems*", in IEEE Transactions on Industrial Informatics, special issue on Information Technology in Automation, IEEE, Vol. 7, No. 4, pp. 689-698, November, 2011.
38. Giusi Quartarone, Norma Anglani, and **Tullio Facchinetti**, "*Improving energy management of electrically driven air compressors through real-time scheduling techniques*", in Proceedings of the 37th Annual Conference of the IEEE Industrial Electronics Society (IECON), Melbourne, Australia, pp. 2697-2702, November, 2011.

2010

37. Marco Della Vedova, Michele Ruggeri, and **Tullio Facchinetti**, "*On real-time physical systems*", in Proceedings of the 18th International Conference on Real-Time and Network Systems (RTNS), Toulouse, France, pp. 41-49, November, 2010.
36. **Tullio Facchinetti**, Marco Ghibaudi, Emanuele Goldoni, and Alberto Savioli, "*Real-time voice streaming over IEEE 802.15.4*", in Proceedings of the IEEE Symposium on Computers and Communication (ISCC), Riccione, Italy, pp. 985-990, June, 22-25, 2010.



35. Luca Capisani, **Tullio Facchinetti**, and Antonella Ferrara, "*Real-time networked control of an industrial robot manipulator via discrete-time second order sliding modes*", in *International Journal of Control*, Taylor and Francis, 2010.
  34. **Tullio Facchinetti**, Enrico Bini, and Marko Bertogna, "*Reducing the Peak Power through Real-Time Scheduling Techniques in Cyber-Physical Energy Systems*", in *Proceedings of the First International Workshop on Energy Aware Design and Analysis of Cyber Physical Systems (WEA-CPS)*, Stockholm, Sweden, pp. 18–25, April, 2010.
  33. **Tullio Facchinetti**, and Marco L. Della Vedova, "*Real-Time Modeling and Control of a Cyber-Physical Energy System*", in *Proceedings of the First International Workshop on Energy Aware Design and Analysis of Cyber Physical Systems (WEA-CPS)*, Stockholm, Sweden, pp. 10–17, April, 2010.
  32. **Tullio Facchinetti**, Alberto Savioli, and Emanuele Goldoni, "*Design and Development of a Real-Time Embedded Inertial Measurement Unit*", in *Proceedings of the 25th ACM Symposium on Applied Computing (SAC)*, Sierre, Switzerland, March, 2010.
  31. **Tullio Facchinetti**, and Matteo Foppiano, "*Resource partitioning for real-time processing on a multicore architecture*", in *Proceedings of the 2010 ACM Symposium on Applied Computing (SAC)*, Sierre, Switzerland, pp. 359-360, 2010.
  30. Francesca Ballan, Luca Capisani, **Tullio Facchinetti**, Antonella Ferrara, and Alessandro Martinelli, "*Configuration Space Analysis Oriented to Robust Control and Obstacle Avoidance of Manipulators*", in *Proceedings of the IEEE International Symposium on Industrial Electronics (ISIE)*, Bari, Italy, July, 2010.
  29. Gianluca Franchino, Giorgio Buttazzo, and **Tullio Facchinetti**, "*Token Passing Techniques for Hard Real-Time Communication*", *Factory Automation*, Javier Silvestre (Ed.), IN-TECH, January, 2010.
- 2009
28. **Tullio Facchinetti**, Cristiana Larizza, and Alessandro Rubini, "*Dalla A alla Z passando per C*", *Biblioteca Delle Scienze*, Pavia, 2009. \*ITALIAN\*
  27. Roberto De Lotto, **Tullio Facchinetti**, Paolo Gamba, and Emanuele Goldoni, "*Wireless Sensor Networks for planning processes: applications and case study*", *Planning, Complexity and New ICT*, Rabino and Cagliioni editors, Alinea editions, pp. 127-136, September, 2009.
  26. Roberto De Lotto, **Tullio Facchinetti**, Paolo Gamba, and Emanuele Goldoni, "*Wireless Sensor Networks for monitoring urban environments: evaluation and practical considerations*", *Planning, Complexity and New ICT*, Rabino and Cagliioni editors, Alinea editions, pp. 137-146, September, 2009.
  25. Pedro Silva, Luis Almeida, Daniele Caprini, **Tullio Facchinetti**, Francesco Benzi, and Thomas Nolte, "*Experiments on timing aspects of DC-Powerline communications*", in *Proceedings of the Work-In-Progress (WIP) session of the 14th IEEE International Conference on Emerging Technologies and Factory Automation (ETF A)*, Palma De Mallorca, Spain, September, 2009.
  24. Marco Luigi Della Vedova, **Tullio Facchinetti**, Antonella Ferrara, and Alessandro Martinelli, "*Real-time platooning of mobile robots: design and implementation*", in *Proceedings of the Work-In-Progress (WIP) session of the 14th IEEE International Conference on Emerging Technologies and Factory Automation (ETF A)*, Palma De Mallorca, Spain, pp. 1–4, September, 2009.

23. Marco Luigi Della Vedova, **Tullio Facchinetti**, Antonella Ferrara, and Alessandro Martinelli, "Visual interaction for real-time navigation of autonomous mobile robots", in Proceedings of the International Conference on CYBERWORLDS, University of Bradford, UK, pp. 211–218, September, 2009.
22. Ezio Bassi, Francesco Benzi, **Tullio Facchinetti**, Luis Almeida, and Thomas Nolte, "Powerline Communication in Electric Vehicles", in Proceedings of the IEEE International Electric Machines and Drives Conference (IEMDC), Miami, Florida, USA, pp. 3-6, May, 2009.

2008

21. Agnese Marchini, **Tullio Facchinetti**, and Michele Mistri, "F-IND: a framework to design fuzzy indices of environmental conditions", in Ecological Indicators, Elsevier, 2008.
20. Luca Capisani, **Tullio Facchinetti**, Antonella Ferrara, and Alessandro Martinelli, "Environment Modelling for the Robust Motion Planning and Control of Planar Rigid Robot Manipulators", in Proceedings of the 13th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA), Hamburg, Germany, pp. 759-766, September, 2008.
19. Gianluca Franchino, Giorgio Buttazzo, and **Tullio Facchinetti**, "Properties of BuST and Timed-Token Protocols in Managing Hard Real-Time traffic", in Proceedings of the 13th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA), Hamburg, Germany, pp. 1205-1212, September, 2008.
18. **Tullio Facchinetti**, Gianluca Franchino, and Giorgio Buttazzo, "A Distributed Coordination Protocol for the Connectivity Maintenance in a Network of Mobile Units", in Second International Conference on Sensor Technologies and Applications, (SENSORCOMM), Cap Esterel, France, pp. 764-769, August, 2008.
17. Gianluca Franchino, **Tullio Facchinetti**, and Giorgio Buttazzo, "Time Properties of the Bust Protocol Under the NPA Budget Allocation Scheme", in Proceedings of the Conference on Design, Automation and Test in Europe (DATE), Munich, Germany, pp. 1051-1056, March, 10-14, 2008.
16. Francesco Benzi, **Tullio Facchinetti**, Thomas Nolte, and Luis Almeida, "Towards the Powerline Alternative in Automotive Applications", in Proceedings of the 7th IEEE International Workshop on Factory Communication Systems (WFCS), Dresden, Germany, pp. 259-262, May, 20-23, 2008. \*\*\*\* BEST PAPER AWARD \*\*\*\*

2007

15. Gianluca Franchino, Giorgio Buttazzo, and **Tullio Facchinetti**, "BuST: Budget Sharing Token Protocol for Hard Real-Time Communication", in Proceedings of the 12th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA), Patras, Greece, September, 25-28, 2007.
14. Luca Capisani, **Tullio Facchinetti**, and Antonella Ferrara, "Second Order Sliding Mode Real-Time Networked Control of a Robotic Manipulator", in Proceedings of the 12th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA), Patras, Greece, September, 25-28, 2007.

2006

13. Mauro Marinoni, **Tullio Facchinetti**, Giorgio Buttazzo, and Gianluca Franchino, "*An Embedded Real-Time System for Autonomous Flight Control*", in Proceedings of the 50th Italian Conference of Factory Automation (ANIPLA), Rome, Italy, November, 2006.
12. **Tullio Facchinetti**, Gianluca Franchino, Paulo Pedreiras, and Ricardo Marau, "*An Ethernet Layer for Supporting Enhanced Real-time Communication Services*", in Proceedings of the 12th IFAC Symposium on Information Control Problems in Manufacturing (INCOM), Saint-Etienne, France, May, 17-19, 2006.

2005

11. **Tullio Facchinetti**, Giorgio Buttazzo, and Luis Almeida, "*Dynamic Resource Reservation and Connectivity Tracking to Support Real-Time Communication among Mobile Units*", in EURASIP Journal on Wireless Communications and Networking, Hindawi Publishing Corporation, Vol. 2005, No. 5, pp. 712-730, December, 2005.
10. Gianluca Franchino, Giorgio Buttazzo, and **Tullio Facchinetti**, "*A Distributed Architecture for Mobile Robot Coordination*", in Proceedings of the 10th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA), Catania, Italy, September, 19-22, 2005.
9. Mauro Marinoni, Giorgio Buttazzo, **Tullio Facchinetti**, and Gianluca Franchino, "*Kernel Support for Energy Management in Wireless Mobile Ad-Hoc Networks*", in Workshop on Operating Systems Platforms for Embedded Real-Time applications (OSPERT), Palma de Mallorca, Spain, July, 2005.
8. **Tullio Facchinetti**, Giorgio Buttazzo, and Luis Almeida, "*A Flexible Visual Simulator for Wireless Ad-Hoc Networks of Mobile Nodes*", in Proceedings of the 10th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA), Catania, Italy, September, 19-22, 2005.
7. **Tullio Facchinetti**, Giorgio Buttazzo, Mauro Marinoni, and Giacomo Guidi, "*Non-Preemptive Interrupt Scheduling for Safe Reuse of Legacy Drivers in Real-Time Systems*", in IEEE Proceedings of the 17th Euromicro Conference on Real-Time Systems (ECRTS), Palma de Mallorca, Spain, July, 2005.

2004

6. Frederico Santos, Luis Almeida, Paulo Pedreiras, Luis S. Lopes, and **Tullio Facchinetti**, "*An Adaptive TDMA Protocol for Soft Real-Time Wireless Communication among Mobile Autonomous Agents*", in Proceedings of Architectures for Cooperative Embedded Real-Time Systems (WACERTS), Lisbon, Portugal, December, 5-8, 2004.
5. **Tullio Facchinetti**, Luis Almeida, Giorgio Buttazzo, and Carlo Marchini, "*Real-Time Resource Reservation Protocol for Wireless Mobile Ad Hoc Networks*", in Proceedings of the IEEE Real-Time System Symposium (RTSS), Lisbon, Portugal, December, 5-8, 2004.
4. Luis Almeida, Frederico Santos, **Tullio Facchinetti**, Paulo Pedreiras, Valter Silva, and Luis Seabra Lopes, "*Coordinating distributed autonomous agents with a real-time database: The CMBADA project*", Proceedings of the 19th International Symposium on Computer and Information Sciences (ISCIS), October, 27-29, 2004.

3. **Tullio Facchinetti**, and Giorgio Buttazzo, "*Integrated Wireless Communication Protocol for Ad-Hoc Mobile Networks*", in Proceedings of the Third International Workshop on Real-Time Networks (RTN), Catania, Italy, June, 29, 2004.

2003

2. **Tullio Facchinetti**, and Giorgio Buttazzo, "*A Real-Time System for Tracking and Catching Moving Targets*", in Proceedings of the 5th IFAC International Symposium on Intelligent Components and Instruments for Control Applications (SICICA), Aveiro, Portugal, pp. 251-256, July, 9-11, 2003.
1. **Tullio Facchinetti**, Giorgio Buttazzo, Marco Caccamo, and Luis Almeida, "*Wireless real-time communication protocol for cooperating mobile units*", in Proceedings of the 2nd International Workshop on Real-Time LANs in the Internet Age (RTLIA), Porto, Portugal, July, 1, 2003.

REVIEWS

Journals and Conferences

<b>Total</b>	Journal: <b>117</b> , Conference: <b>324</b> , Total: <b>441</b>
2024	Journal: <b>1</b> , Conference: <b>10</b> , Total: <b>11</b>
2023	Journal: <b>4</b> , Conference: <b>17</b> , Total: <b>21</b>
2022	Journal: <b>6</b> , Conference: <b>27</b> , Total: <b>33</b>
2021	Journal: <b>1</b> , Conference: <b>36</b> , Total: <b>37</b>
2020	Journal: <b>9</b> , Conference: <b>26</b> , Total: <b>35</b>
2019	Journal: <b>10</b> , Conference: <b>16</b> , Total: <b>26</b>
2018	Journal: <b>6</b> , Conference: <b>26</b> , Total: <b>32</b>
2017	Journal: <b>6</b> , Conference: <b>20</b> , Total: <b>26</b>
2016	Journal: <b>5</b> , Conference: <b>14</b> , Total: <b>19</b>
2015	Journal: <b>6</b> , Conference: <b>8</b> , Total: <b>14</b>
2014	Journal: <b>6</b> , Conference: <b>14</b> , Total: <b>20</b>
2013	Journal: <b>6</b> , Conference: <b>12</b> , Total: <b>18</b>
2012	Journal: <b>7</b> , Conference: <b>17</b> , Total: <b>24</b>
2011	Journal: <b>10</b> , Conference: <b>19</b> , Total: <b>29</b>
2010	Journal: <b>11</b> , Conference: <b>22</b> , Total: <b>33</b>
2009	Journal: <b>7</b> , Conference: <b>16</b> , Total: <b>23</b>

- 2008 Journal: **6**, Conference: **16**, Total: **22**
- 2007 Journal: **8**, Conference: **3**, Total: **11**
- 2005 Journal: **1**, Conference: **3**, Total: **4**
- 2004 Journal: **1**, Conference: **1**, Total: **2**
- 2002 Journal: **0**, Conference: **1**, Total: **1**

International PhD Theses

- 2010 Danilo Tardioli, *Real-Time Communication in Wireless Ad-Hoc Networks – The RT-WMP Protocol*, University of Zaragoza (Spain).

OTHER ACTIVITIES

- 2022-05-05 - today President of the Association of Ex Alumni of the Collegio Plinio Fraccaro, Pavia, Italy. The responsibility includes the management of financial budgets, communication with the members, chair the periodic board, and the annual reunion.
- 2024-05-05 Organization of the Annual Meeting of the Former Alumni of the Collegio Plinio Fraccaro, Pavia, Italy (around 120 participants).
- 2023-11-11 Organization of the Meeting for the Anniversary of the 60th Year of the Foundation of the Collegio Plinio Fraccaro, Pavia, Italy (around 150 participants).
- 2023-05-07 Organization of the Annual Meeting of the Former Alumni of the Collegio Plinio Fraccaro, Pavia, Italy (around 110 participants).
- 2024-01-31 Attendance of the webinar “Generative AI: Useful tool or teaching distraction?” (1 hour), organized by Pearson Higher Education UK&Europe.
- 2023-10-05 Attendance and passing of the final test in the course “Refresher training for workplace safety officer”, as responsible for safety at the Robotics Laboratory of the Department of Electrical, Computer and Biomedical Engineering of the University of Pavia.
- 2019-09-30 As a member of the Research Committee of the Department of Industrial, Computer and Biomedical Engineering, I was co-responsible of designing the brand new website of the Department
- 2019-09-30 - 2020-07-30 As a member of the Research Committee of the Department of Industrial, Computer and Biomedical Engineering, I was responsible of setting up the new *Data Science Laboratory* of the Department. I managed the issues related to electrical and air conditioning installations, the furniture’s, and the configuration and installation of the server in the laboratory.
- 2008-11-30 Participation at the international competition CiberMouse’08, Barcelona (Spain), for coordinated simulated mobile robots. The simulated robotics team developed at the Robotics Laboratory of the University of Pavia *won the second prize at the official competition*.

**2001 - 2006** At the Robotics Laboratory, at the Department of Computer Science and Systems of the University of Pavia (Italy), I has been involved in the following activities:

- equipment management, such as personal computer, software installation, robotics and electronic components, etc.;
- management and maintenance of the local area network (gateway, local addresses, servers, etc.);
- management of the laboratory’s web server;
- coordination and management of several Master Degree students, as well as software projects developed at the Robotics Laboratory.

**2001 - 2006** Working at the development of the S.Ha.R.K. real-time operating system, I wrote and reviewed several volumes of documentation about available functions, usage and sample applications.

**1993 - 1995 (summertime only)** Mechanical technician at the S.I.M.I.N. company in Costa Volpino (Italy), specialized on installation and maintenance of industrial equipment.

**1989 - 1992 (summertime only)** Installer of Canadian tiles in several locations located in Northern Italy.

**Mother tongue** Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C2

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user  
[Common European Framework of Reference for Languages](#)

Digital competences	SELF-ASSESSMENT				
	Information Processing	Communication	Content creation	Safety	Problem solving
	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

[Digital competences - Self-assessment grid](#)