

Gianluca Fabbri

Head of the Smart Grid and Mobility Research Unit
Link Campus International University of Rome
Research and Development Department

Gianluca Fabbri holds a degree in Electrical Engineering ("Sapienza" University of Rome) and a double European PhD in Electrical Engineering ("Sapienza" University of Rome and Madrid Polytechnic University).

Since 2008 he has joined the Pole for Sustainable Mobility (POMOS) of Sapienza University of Rome, constantly working on R&D activities, together with highly skilled European companies and Universities and being the responsible of the Fundings and Projects Division.

He has deep experience in the technical and administrative coordination of EU, National and International Projects and in the coordination and preparation of proposal submissions providing strategic and technical advice and assistance to the development and management of cofunded projects on RTD and Innovation, Environment, ICT, Energy and Transportation and also in Fund-raising activities for international cooperation and bilateral projects, assistance to preparation of tenders and project proposals.

He is author of various papers published in technical journals and conference proceedings. Highly experienced on technology transfer activities, he promoted, supported and coordinated SMEs participation in R&D National and European projects.

He has experience in evaluating proposals for Research and Innovation Regional Indirect Structural Funding.

On various occasions, he was invited to serve as Visiting Professor, Chairman, Research Fellow by universities and research institutes. In the meantime, he participates actively as specialist researcher and consultant in various projects concerning renewable energy, energy production systems, energy savings and automotive applications and sustainable mobility. He is the CEO of the company DINESTO, Drive the Innovation in Energy Storage, an Innovative Start up of Lazio and he is an independent consultant among Universities and Research Centres, Public Administrations, and Private Companies.

He is professor and Head of the Smart Grid and Mobility Research Unit at the Link Campus International University of Rome.

CV

Personal Details

Education

- Degree in Electrical Engineering, La Sapienza University, Rome. Thesis: "*Design of a control system for drive-by-the-wire vehicles*". This thesis was carried out with a scholarship to do research at Arizona State University.
- Double European Ph.D in Electrical Engineering, La Sapienza University of Rome and Madrid Polytechnic University. Thesis subject: "*Simulations of energy Systems for Distribute Generation and Renewable Energy Plants*".
- Research grant at the Department of Electrical and Computer Engineering - University of Coimbra. Research subject: "*Innovative technologies for the generation and storage of energy for telecommunications applications*".
- Certified engineer.
- High school diploma (technical), ITIS F.Severi, Rome.

Research Activities

- High and medium temperature Fuel Cells for stationary applications.
- Innovative technologies for the generation and storage of energy for telecommunications applications.
- Trigeneneration energy systems.
- Development of models and tools for the simulation of Stand Alone Power Systems (SAPS).
- Dynamic models of wind-photovoltaic hybrid stand alone generators.
- Modelling and simulation of low-output renewable energy systems and numerical optimization techniques for the design of these systems.
- Hybrid and Electric Vehicles.
- Bioelectrical non invasive probes.
- Smart grids and V2G/G2V.
- Open innovation.
- IoT and Smart Connected Objects.
- Member of the IEEE/IES Technical Committee on Energy Storage Devices and Systems.
- Member of the commission for the evaluation of International PhD at the Madrid Polytechnic University and the National Institute of Technology of Rourkela.

Teaching Activities

- Teaching at the Link Campus University of Rome in Smart Grids and Sustainable Mobility
- Teaching at the ROTOLION Master in Sustainable Mobility and Efficiency.
- Teaching at the Center for Creative Leadership, Belgium.
- Teaching university course on Energy Management at the University of Rome La Sapienza Energetic Department.
- Teaching courses and workshops for Business International.

- Teaching courses for the University Master in Facility Management for Global Care at the Biomedical University Campus of Rome.
- Teaching for the course on Photovoltaic Plants for the Order of the Engineers of Rome.
- Teaching at the SEFDoF, summer school for Photovoltaic.
- Teaching courses for the MasterGem in green Economy Management.
- Teaching and support of lessons and courses given by the La Sapienza Electrical Engineering Department and INFOCOM Department.
- Coordinator of the Postgraduate Masters in Energy and Environment Management and Sustainable Transportation at Link Campus University of Rome.

List of Funded Research Projects

- *SSWS-IOT Two years project for the development of a smart and safe wearable system for hand pattern recognition coupled with a cloud-based Internet of Things (IoT) framework. (2016-2017). Cost: 0,12 M€ Progetti di Grande Rilevanza Internazionali Ministero Affari Esteri. Role: Preparation of the technical and economical proposal, construction of the partnership, Project Management and Scientific Responsible.*
- *E-IMPACT: Two year EU project aiming at implementing e-Freight market-ready pilot applications in 3 corridors of the TEN-T Core Network: the Atlantic, Mediterranean and Baltic /Adriatic corridors (2015-2017) Number of Partners involved: 11. Cost: 3 M€. Role:Project Management.*
- *EUCISE 2020: 33 months FP7 funded project (2015-2017). The activities of EUCISE2020 are implemented and managed by a consortium of 37 partners from 15 different European countries; the project coordinator is the Italian Space Agency (ASI). Maritime authorities, universities, research institutes and other different organizations are involved. The project attains the widest possible experimental environment of innovative and collaborative processes between European maritime institutions. Role:Project Management.*
- *SMARTMOB2.0: 1 year regional project for the development of a mobility platform (2015). Call: VAL Insieme per Vincere; Number of partners involved: 15, Cost: 10 M€, Role: Preparation of the technical and economical proposal, construction of the partnership, General Project Management.*
- *DINESTO, Drive the Innovation in Energy Storage; 1 year project for the start up of an innovative spin-off in the field of energy storage,(2014), Call: Start up Lazio, cost: 0,13 M€. Role: Preparation of the technical and economical proposal, CEO.*
- *HI-ZEV: Three years project (2012-2015) for the development o fan ecological sport car. Call: Industria 2015. Number of Partners involved: 20. Budget: 9M€. Role: Preparation of the technical and economical proposal, construction of the partnership, General Project Management.*
- *HI-QUAD: Three years project (2012-2015) for the development of an hybrid quadricycle. Call: Industria 2015. Cal:l Industria 2015. Number of Partners involved: 20. Budget 12M€; Role: Preparation of the technical and economical proposal, construction of the partnership.*
- *ROTOLION: Three years project (2013-2015) for the development of a quick battery replacement system trough a sustainable automatic station. Call: Programma Operativo Nazionale Ricerca e Competitività 2007-2013. Number of Partners involved: 3. Budget: 4.3 M €. The project includes the organization of an advanced university Master on Sustainable Mobility and Renewable Energy. Role: Preparation of the technical and economical proposal, construction of the partnership, Responsible for the Master.*
- *FEMAG-T: Two years project (2011-2012) for the development of an hybrid powertrain. Call: Frontiere Tecnologiche POR Lazio. Number of Partners involved: 3. Budget: 0,6 M€. Role: Preparation of the technical and*

economical proposal, construction of the partnership, General Project Management.

- *ECO-CHASSIS: Two years project (2011-2012) for the development of a modular platform for hybrid and electric vehicles Call: Frontiere Tecnologiche POR Lazio. Number of Partners involved: 3. Budget: 0,6 M€, Role: Preparation of the technical and economical proposal, construction of the partnership, General Project Management.*
- *ECO-QUAD: Three years project for the development of a net for the development of an industrial chain for the spread of hybrid and electric vehicle (2011-2013). Partners involved: 5. Budget: 0,1 M€. Role: Preparation of the technical and economical proposal, construction of the partnership, General Project Management.*
- *PRESS4TRANSPORT: Two year EU project for the development of a virtual platform on transport. (2010-2011) Number of Partners involved: 5. Cost: 0.8 M€: Role: Preparation of the technical and economical proposal, Project Management.*
- *VENTOTENE Zero Emission Island (2010). Project for the implementation of Sustainable Mobility Solutions on the island of Ventotene. Number of Partners involved: 5 .Budget: 0,3 M€. Role: Preparation of the technical and economical proposal, construction of the partnership, General Project Management.*
- *FLYWHEEL Joint research project between Italy and Argentina to study alternative storage systems. Period: (2008-2009). Role: Preparation of the technical and economical proposal, Project Management.*
- *ERSATRITCOM Three years EU project for the development of an experimental prototype of an innovative hybrid trigeneration system for telecom applications (2011-2013). Cost: 0,2 M €. Role: Preparation of the technical and economical proposal, construction of the partnership, Project Management.*

Work Experience

Current Position

- Professor and Head of the Smart Grid and Mobility Unit at the Link Campus International University of Rome.
- Coordinator of the Postgraduate Masters in Energy and Environment Management and Sustainable Transportation at Link Campus University of Rome.
- Innovation fundings, business strategies and project management of R&D activities at the Pole for Sustainable Mobility, La Sapienza University of Rome.
- CEO of DINESTO, Drive the Innovation in Energy Storage.
- Independent Consultant for the preparation of project proposals for funding from the EU, National and Regional programs, Innovation processes and technology transfer, building of academic and private networks, evaluator of project proposals for Research and Innovation Regional Indirect Structural Funding in the Region of Lazio.

Past positions

- Contract Researcher at the Institute of Telecommunications at the University of Coimbra, Portugal. Research subject: "Innovative technologies for the generation and storage of energy for telecommunications applications".
- Overseas Department Project Manager for the installation of conventional and renewable electrical-energy production systems, Nuova Carrel S.p.A. This position has entailed sojourns in Jordon, Lebanon, Iraq and Kosovo.
- Design and installation of stand alone solar energy systems for rural applications in Libya, Tunisia and Egypt, Frei S.r.l.

- Specialist researcher on a two-year project for the production and testing of a thermo/electric co-generator prototype and the resulting industrial production, Advanced Devices S.p.a.
- Specialist researcher on a three-year project for the production of the prototype of a high-temperature advanced Fuel Cell SOFC with thin planary, electrolyte cells for the distributed generation of thermal and electrical energy, Nuova Carrel S.p.a.
- Development of a prototype micro-turbine with the Mechanics Department of the University of Amman.
- Collaboration with Milan-based firm Real Industria s.r.l. on research projects and feasibility studies.
- Construction of internet sites and multimedia applications, MEDIAFORME.
- Set up of exhibition stands at the RAI Congress Centre in Amsterdam.
- Collaboration with UNISYS as an expert on software applied to the medical field with participation at conferences in Italy and abroad.

Consultancy Experience

- Consulting and design in the field of electrical systems and energy saving and other engineering research, Global Engineering.
- Consulting in the preparation of project proposals for funding from the EU, the Italian Higher Education, Research and Technology Ministry and the Italian Production Activities Ministry, Frei S.r.l.
- Experience of research and consultancy in public and private, in the development of innovation processes and technology transfer and construction of university and private networks.
- Experience of project management in national and European R&D projects, in technology transfer projects mainly in the fields of energy, sustainable mobility and ICT.

Foreign Languages

- Good written and spoken English.
- Good Spanish.

Information Technology Skills

- Operating systems: MS-DOS, Windows.
- Languages: Basic, Pascal, Fortran, Html.
- Applications: Office package, Macromedia package, CAD, Simulink.

List of Research Publications

Peer reviewed conferences:

1. G.Fabbri, E.Santini, P.Sordj, "AN SPM MOTOR FOR A DRIVE-BY-THE-WIRE STEERING SYSTEM", ICEM 2002 15th International Conference on Electrical Machines,
2. C. Boccaletti, G. Di Grazia, G. Fabbri, E. Nisticò, "ENERGY MODELS FOR STAND ALONE POWER SYSTEMS", EETI 2004-5th International Congress Energy, Environment and Technological Innovation,
3. G. Fabbri, E. Nisticò, E.Santini "BUILDING SIMULATION MODELLING ENVIRONMENTS", PSE05 5th International Conference on Power Systems and Electromagnetic compatibility August 23-25, 2005, Corfu Island (Greece).
4. G. Fabbri, E. Nisticò, E.Santini, "DESIGN OF CAST-RESIN DISTRIBUTION TRANSFORMERS BY MEANS OF GENETIC ALGORITHMS", SPEEDAM 2006.
5. C.Boccaletti, G. Fabbri, E.Santini, "FUEL CELL SYSTEMS SIMULATION", ICEM

2006.

6. C.Boccaletti, G.Duni, G. Fabbri, E.Santini, "A TOOL FOR THE SIMULATION OF INTEGRATED RENEWABLE ENERGY FUEL CELL SYSTEMS", ENER 2006, Figueira da Foz (PORTUGAL).
7. C.Boccaletti, G.Duni, G. Fabbri, F.M. Frattale Mascioli, E.Santini, "TECHNICAL AND ECONOMIC FEASIBILITY STUDY OF A SMALL HYBRID VEHICLE FOR URBAN TRANSPORTATION", Workshop on Hybrid and Solar Vehicles 2006, Salerno, Italy.
8. C.Boccaletti, G. Fabbri, E.Santini, "A REFORMER MODEL FOR FUEL CELL POWER SYSTEMS", POWERENG 2007 Setúbal, (Portugal).
9. C. Boccaletti, G. Fabbri, O. Riot, E. Santini, "MODELLING AND SIMULATION OF HYBRID SOFC-GT SYSTEMS FOR DISTRIBUTED GENERATION", ICREPQ 2007, Valencia, Spain.
10. A.Antonelli, C.Boccaletti, G.Duni, G.Fabbri, "REMOTE CONTROL AND MONITORING OF AN INDUCTION MOTOR", COMADEM07
11. C.Boccaletti, G.Fabbri, E.Santini, "INNOVATIVE SOLUTIONS FOR STAND ALONE SYSTEMS POWERING", INTELEC 2007 International Telecommunications Energy Conference 30-sept 4-ott 2007 Rome.
12. C.Boccaletti, G.Duni, G.Fabbri, E.Santini, "ALTERNATIVE SIMULATION METHOD FOR AN AFDM MACHINE", ISEF 2007 International Symposium on Electromagnetic Fields in Mechatronics, electrical and Electronic Engineering, Praga 13-15 Sett 2007
13. G. Fabbri, J.Marco, E.Santini, "APPLICATIONS OF FUEL CELLS IN DISTRIBUTED GENERATION", C.Boccaletti, ICEM '08 - XVIII International Conference on Electrical Machines
14. C.Boccaletti, G.Fabbri, J.Marco, E.Santini, "HYBRID CONFIGURATIONS FOR SAPS", EuropES 2008 8th IASTED International Conference on Power and Energy Systems
15. C.Boccaletti, F.Castrica, G.Fabbri, M.Santello, "A NON-INVASIVE BIOPOTENTIAL ELECTRODE FOR THE CORRECT DETECTION OF BIOELECTRICAL CURRENTS", Biomed2008 sixth IASTED International conference on Biomedical Engineering
16. C.Boccaletti, G.Fabbri, J.Marco, E.Santini, "RENEWABLE ENERGY IN DEVELOPING COUNTRIES: THE CASE OF GUINEA BISSAU", ICREPQ08 International Conference on Renewable Energy and Power Quality
17. G. Fabbri, F.M.F. Mascioli, S. Valentini, "SUSTAINABLE MOBILITY MODELS FOR THE ISLAND OF VENTOTENE", International Multi-Conference on Complexity, Informatics and Cybernetics, IMCIC2010
18. G. Fabbri, C. Boccaletti, A. J. Marques Cardoso, F.Castrica, "A SOFTWARE TOOL FOR THE EVALUATION OF BIOELECTRICAL CURRENTS BEHAVIOUR", International Multi-Conference on Complexity, Informatics and Cybernetic, IMCIC2010
19. G.Fabbri, C.Boccaletti, A. J. Marques Cardoso, F.Castrica, "A BIOELECTRICAL SENSOR FOR THE DETECTION OF SMALL BIOLOGICAL CURRENTS", ICST2010, Proceedings of The 4th International Conference on Sensing Technology.
20. G. Fabbri, C. Boccaletti, A. J. Marques Cardoso, F.Castrica, "A SOFTWARE TOOL FOR THE EVALUATION OF BIOELECTRICAL CURRENTS BEHAVIOUR", Journal of Systemics, Cybernetics and Informatics.
21. G. Fabbri, C. Boccaletti, A. J. Marques Cardoso, "A HYBRID STAND ALONE POWER SYSTEM FOR TELECOM APPLICATIONS IN MINOR ISLANDS", ICEM 2010 International Conference on Electrical Machines.
22. G. Fabbri, "INTELLIGENT TRANSPORTATION SYSTEMS: AUTOMATIC VEHICLE LOCATION AND MONITORING SYSTEMS", Thematic Fiches from the Press4transport consortium, June 2010.
23. G. Fabbri, "INTELLIGENT TRANSPORTATION SYSTEMS: SUSTAINABLE MOBILITY PILOT RESEARCH PROJECTS IN TOURISTIC AREAS", Thematic Fiches from the Press4transport consortium, June 2010.
24. L. Petrucci, G. Fabbri, C. Boccaletti, A. J. Marques Cardoso, "POWERING AND

- COOLING OF A SERVER ROOM USING A HYBRID TRIGENERATION SYSTEM”, IEE-ICCSIT2011, International Conference on Computer Science and Information Technology.
25. G. Fabbri, C. Boccaletti, L. Anniballi, M. London, F.M.F. Mascioli, F. Calenne, A. J. Marques Cardoso, “ADDING ICT TO TRANSPORTATION SYSTEMS: MONITORING AND MANAGEMENT SYSTEM FOR THE ELECTRIC VEHICLE FLEET ON THE ISLAND OF VENTOTENE”, IEE-ICCSIT2011, International Conference on Computer Science and Information Technology.
 26. G. Fabbri, M. Paschero, “HYBRID AND ELECTRIC PROPULSION: FOCUSING ON NATIONAL EU R&D PROJECTS”, Thematic Fiches from the Press4transport consortium, June 2011.
 27. G. Fabbri, M. Paschero, A. Cardoso, C. Boccaletti, A. J. Marques Cardoso, F. M. F. Mascioli, “A BATTERY MODEL BASED ON GENETIC ALGORITHM FOR STAND ALONE POWER SYSTEMS AND RADIO BASE SYSTEMS POWERING”, 33rd IEEE International Telecommunications Energy Conference, INTELEC 2011, October 2011.
 28. G. Fabbri, A. Cardoso, C. Boccaletti, A. Girimonti, “CONTROL AND OPTIMISATION OF POWER CONSUMPTION IN RADIO BASE STATION POWERING”, 33rd IEEE International Telecommunications Energy Conference, INTELEC 2011, October 2011.
 29. G. Fabbri, M. Paschero, G. Del Vescovo, H. Chiacchierini, A. Rizzi, F. M. Frattale Mascioli, “A SIMULATION TOOL FOR THE MANAGEMENT OF ENERGY FLOWS IN HYBRID ELECTRIC VEHICLES”, ISIE 2012 – The 21th IEEE International Symposium on Industrial Electronics, 28-31 May 2012, Hangzhou, Zhejiang, China.
 30. M. Paschero, G. Del Vescovo, L. Benucci, A. Rizzi, M. Santello, G. Fabbri, F.M. Frattale Mascioli “A REAL TIME CLASSIFIER FOR EMOTION AND STRESS RECOGNITION IN A VEHICLE DRIVER”, ISIE 2012 – The 21th IEEE International Symposium on Industrial Electronics, 28-31 May 2012, Hangzhou, Zhejiang, China.
 31. G. Fabbri, A. J. M. Cardoso, C. Boccaletti, A. Carta, F.M. Frattale Mascioli “SIMULATION AND DESIGN OF A PHOTOVOLTAIC ROOF FOR AUTOMOTIVE APPLICATIONS”, ISIE 2012 – The 21th IEEE International Symposium on Industrial Electronics, 28-31 May 2012, Hangzhou, Zhejiang, China.
 32. G. Fabbri, F. Calenne, M. London, C. Boccaletti, A. J. Marques Cardoso, F.M. Frattale Mascioli “DEVELOPMENT OF AN ON-BOARD UNIT FOR THE MONITORING AND MANAGEMENT OF AN ELECTRIC FLEET”, The 20th International Conference on Electrical Machines, ICEM'2012, September 2-5, 2012, Marseille – France.
 33. G. Fabbri, F.M.F. Mascioli, M. Dessì, M. London, F. Calenne “Sustainable Mobility in Urban and Touristic Areas”, EWGT, 15th meeting of the Euro working Group on Transportation, September 10-13 2012, Paris, France.
 34. G. Fabbri, M. Pasquali, F. M. F. Mascioli, “Automotive Application of Lithium-ion batteries: a new generation of electrode materials”, 22nd IEEE International Symposium on Industrial Electronics, Taipei, Taiwan, May 28-31, 2013.
 35. G. Fabbri, F. Serra, M. Paschero, F. M. F. Mascioli, “Development of an Innovative Direct Injection LPG System for ICE and Extended Range Electric Vehicles”, 22nd IEEE International Symposium on Industrial Electronics, Taipei, Taiwan, May 28-31, 2013.
 36. G. Fabbri, M. Paschero, F.M.F. Mascioli, “Energy Storage Devices for Telecommunication: the case of a Radio Base Stand Alone System”, 22nd IEEE International Symposium on Industrial Electronics, Taipei, Taiwan, May 28-31, 2013.
 37. M. Paschero, G. Del Vescovo, G. Fabbri, F.M.F. Mascioli “Design and implementation of a fast recharge station for electric vehicles”, 22nd IEEE International Symposium on Industrial Electronics, Taipei, Taiwan, May 28-31, 2013.

38. G. Fabbri, F.M.F. Mascioli., M. Paschero, M. Dessi, "Sustainable Mobility in Urban and Touristic Areas", 18 th International Conference on Urban Planning and Regional Development in the Information Society 20-23 May 2013, Rome, Italy.
39. G. Fabbri, F. M. Frattale Mascioli, "An Integrated Sustainable Mobility Territorial System", Fourth IEEE International Conference on Information Science and Technology (ICIST 2014) Shenzhen, Guangdong, China, April 26-28 2014.
40. G. Fabbri, G. Tarquini, L. Pasquali, M. Antonucci, "Innovation Management of a High-Technology Academic Start Up: the case of DINESTO", 23nd IEEE International Symposium on Industrial Electronics, Istanbul, Turkey, June 01-04, 2014.
41. A. Dell'Era, G. Fabbri, L. Pasquali, G. Tarquini, M. Pasquali, E. Santini, "Automotive Application of Lithium-ion batteries", 23nd IEEE International Symposium on Industrial Electronics, Istanbul, Turkey, June 01-04, 2014.
42. G. Fabbri, M. Dessi, S. Sgreccia, M. Paschero, F. M. Frattale. Mascioli., L. Anniballi, S. Nardecchia, "Bonifica 2.0 : an Integrated Territorial System of Sustainable Mobility and Micro Smart Grids", 23nd IEEE International Symposium on Industrial Electronics, Istanbul, Turkey, June 01-04, 2014.
43. G. Fabbri, S. Odoardi, G. Tarquini, L. Pasquali, S. Teodori, E. Santini, "Impact of V2G/G2V Technologies on Distributed Generation Systems, 23nd IEEE International Symposium on Industrial Electronics, Istanbul, Turkey, June 01-04, 2014.
44. G.Fabbri, M. Pasquali, P. Prosini, "DInESto: An example of an High-Technology Academic Start Up", GEI 2015, Giornate dell'Elettrochimica Italiana, September 20-24, Bologna, Italy.
45. G. Fabbri, C. M. Medaglia, M. Antonucci, M. Ippolito, E. Saraceno, L. Fiorentino, M. Bistolfi, P. Cozzolino, M. Gallarate, "An Innovative System for a Clean and Sustainable Public Transport System in Smart Cities", ISIE 2016, IEEE International Symposium on Industrial Electronics, Santa Clara, California, USA, June 08-11, 2016.
46. G. Fabbri, C. M. Medaglia, D. Sbordone, B. Di Pietra "A Tool for the Analysis of Energy Systems in Smart Cities", ISIE 2016, IEEE International Symposium on Industrial Electronics, Santa Clara, California, USA, June 08-11, 2016.
47. G. Fabbri, C. M. Medaglia, A. Pecora, L. Maiolo, M. Santello, "Cyber Physical Systems and Body Area Sensor Networks in Smart Cities", ISIE 2016, IEEE International Symposium on Industrial Electronics, Santa Clara, California, USA, June 08-11, 2016.

Peer reviewed Journal Papers:

1. C. Boccaletti, G. Fabbri, O. Riot, E. Santini (2007). Modeling and simulation of hybrid SOFC-GT systems for Distributed Generation. *RENEWABLE ENERGY & POWER QUALITY JOURNAL*, 2007.
2. C. Boccaletti, G. Fabbri, J. Marco, E. Santini (2008). An Overview on Renewable Energy Technologies for Developing Countries: the case of Guinea Bissau. *RENEWABLE ENERGY & POWER QUALITY JOURNAL*, 2008.
3. G. Fabbri, A. J. Marques Cardoso, C. Boccaletti, L. Castrica, "A SOFTWARE TOOL FOR THE EVALUATION OF THE BEHAVIOUR OF BIOELECTRICAL CURRENTS", *Journal of Systemics, Cybernetics and Informatics*, Volume 9, Number 3, pp. 79-84, 2011.
4. L. Petrucci, G. Fabbri , C. Boccaletti, A. J. Marques Cardoso, "POWERING AND COOLING OF A SERVER ROOM USING A HYBRID TRIGENERATION SYSTEM", *International Journal of Computer Theory and Engineering (IJCTE)* vol. 5, p. 263-267, 2013.
5. G. Fabbri, C. Boccaletti, L. Anniballi, M. London, F. Calenne, F. M. F. Mascioli, A. J. M. Cardoso (2013). Adding ICT to Transportation Systems: Monitoring and Management System for the Electric Vehicle Fleet on the Island of

Ventotene. *INTERNATIONAL JOURNAL OF COMPUTER THEORY AND ENGINEERING*, vol. 5, p. 268-272, 2013

- *A number of papers published in Italian and international journals and works presented and registered in the acts of Italian and international conferences.*
- *Author reports and chairman in conferences and seminars.*

Reviewer for the following Journals and Conferences

- IEEE ISIE Symposium on Industrial Electronics
- IECON Conference of IEEE Industrial Electronics
- ICCSIT IEEE International Conference on Computer Science and Information Technology
- INTELEC International Telecommunications Energy Conference
- IET Journal, Electrical Systems in Transportation
- IEEE Transactions on Instrumentation & Measurement
- IMCIC International Multi-Conference on Complexity, Informatics and Cybernetic
- CCISE Complexity, Cybernetics and Informing Science and Engineering Conference.
- MTEE 2015 International Conference on Material Technology and Environmental Engineering
- IDREC 2015 Interdisciplinary Research, Education and Communication Committee

Session Chair for the following Conferences

- IEEE ISIE Symposium on Industrial Electronics
- ICCSIT IEEE International Conference on Computer Science and Information Technology
- IMCIC International Multi-Conference on Complexity, Informatics and Cybernetic
- IASTED BIOMED International Conference on Biomedical Engineering
- ITME 2014 International Conference on Information Technology and Management Engineering – International Scientific Committee

Other scientific activities and achievements

- Member of the IEEE Energy Storage Devices and Systems (ESDS) Technical Committee
- Edited book initiative on the topic "*Energy storage Devices and Systems for Automotive Applications*"
- Founding member of the Italian Neuro-Biology Society
- Best publication award for paper "A SOFTWARE TOOL FOR THE EVALUATION OF BIOELECTRICAL CURRENTS BEHAVIOUR", IMCIC2010
- EU Patent "PROCESS FOR THE PREPARATION OF MICROCRYSTALLINE LiFePO₄ WHICH IS SPECIFICALLY SUITABLE AS CATHODE MATERIAL IN LITHIUM BATTERIES".

List of participation in conference, workshops.

1. *ICEM 2002 15th International Conference on Electrical Machines.*
2. *EETI 2004-5th International Congress Energy, Environment and Technological Innovation.*
3. *PSE05 5th International Conference on Power Systems and Electromagnetic compatibility August 23-25, 2005, Corfu Island (Greece).*
4. *SPEEDAM 2006.*

5. *ICEM 2006.*
6. *ENER 2006, Figueira da Foz (PORTUGAL).*
7. *Workshop on Hybrid and Solar Vehicles 2006, Salerno, Italy.*
8. *POWERENG 2007 Setúbal, (Portugal).*
9. *ICREPQ 2007, Valencia, Spain.*
10. *COMADEM07.*
11. *INTELEC 2007 International Telecommunications Energy Conference 30 September- 4 October 2007 Rome.*
12. *ISEF 2007 International Symposium on Electromagnetic Fields in Mechatronics, electrical and Electronic Engineering, Praga, 13-15 September 2007*
13. *ICEM '08 - XVIII International Conference on Electrical Machines*
14. *EuroPES 2008 8th IASTED International Conference on Power and Energy Systems*
15. *Biomed2008 sixth IASTED International conference on Biomedical Engineering*
16. *ICREPQ08 International Conference on Renewable Energy and Power Quality*
17. *International Multi Conference on Complexity, Informatics and Cybernetics, IMCIC2010*
18. *ICST2010, Proceedings of The 4th International Conference on Sensing Technology.*
19. *ICEM 2010 International Conference on Electrical Machines.*
20. *International Conference on Computer Science and Information Technology 2010.*
21. *IEE-ICCSIT2011, International Conference on Computer Science and Information Technology.*
22. *International Telecommunications Energy Conference, INTELEC 2011, October 2011.*
23. *ISIE 2012 – The 21th IEEE International Symposium on Industrial Electronics, 28-31 May 2012, Hangzhou, Zhejiang, China.*
24. *The 20th International Conference on Electrical Machines, ICEM'2012, September 2-5, 2012, Marseille – France.*
25. *EWGT, 15th meeting of the Euro working Group on Transportation, September 10-13 2012, Paris, France.*
26. *Chairman at the workshop: Il futuro della mobilità: Nuove tecnologie e sistemi integrati. Rome, 26 February 2013*
27. *Chairman: Clean Energy for Sustainable Mobility. Innovation and development in Austria and Italy. Rome, 21 March 2013.*
28. *Delegate: DGEF2013, Dubai Global Energy Forum, Dubai, UAE April 2013.*
29. *Speaker: REALCORP 2013, International Conference on Urban Planning and Regional Development in the Information Society, Rome, May 2013*
30. *Invited Lecturer: "Research Activities and Technology Transfer Experiences in Italy" . Michigan Shanghai Jiao Tong University, Shanghai, China, May 2013.*
31. *Chairman: IEEE International Symposium on Industrial Electronics, Taipei, Taiwan, May 28-31, 2013.*
32. *Member of the PhD international commission at the Politecnico University of Madrid, Madrid, 24-27 June 2013.*
33. *Speaker: NANOFORUM 2013, Micro Nano and Advanced Technologies, 18-20 September 2013, Roma.*
34. *Chairman Workshop Civitas "La mobilità urbana nelle città italiane:", 21 February 2014, Rome, Italy.*
35. *ITME 2014, International Conference on Information Technology and Management Engineering, 26-27 April, 2014, Hong Kong, International Scientific Committee.*
36. *Ecologicamente, Workshop, Mobilità sostenibile a sostegno del Turismo Locale, Napoli, Italy, 8 May, 2014.*
37. *I giovani e l'Agenda Sostenibile, Speaker, Master GEM Green Economy Management, 28 May 2014 , Città dell'altra Economia, Roma.*
38. *Chairman: IEEE International Symposium on Industrial Electronics, Turkey, 1-*

4 June 2014.

39. *Invited lecturer: Lazio – Tianjin Business Workshop, 18 October, 2014.*
40. *Invited lecturer: European project Space Panel, IJCCI 2014, 7th International Joint Conference on Computational Intelligence, 23 October 2014.*
41. *Invited lecturer: Workshop best practices in the region of Lazio, BIC LAZIO, 16 December 2015.*
42. *Invited Expert: “Promoting local electric mobility”, European project: CIVITAS Workshop, 10 February 2015, Aachen, Germany.*
43. *China-EU Research and Innovation Cooperation Forum, 28 April 2015, Brussels.*
44. *Invited speaker: China International Technology Transfer Convention 2015 (Beijing), “Encouraging and developing joint R&D activities between Italy and China”, Beijing, 23 April 2015.*
45. *Invited speaker: China-Italy Projects Match Making Session, Innovation e Technology Transfer Development Forum, Tianjin, 25 April 2015.*
46. *Invited Speaker: Workshop “Innovation and Smart Cities”, Tianjin Meijiang Convention and Exhibition Center, 18 May 2015, Tianjin.*
47. *Invited Speaker: China-EU Industrial Cooperation and Investment Fair, Liuzhou, June 2015.*
48. *Invited Speaker: 10th High Level Seminar on Regional Policy Cooperation- EU-China Summit, European Commission, 29 June 2015. Brussels.*
49. *Invited Speaker: Tavola Rotonda “Opportunità di collaborazione fra industria, università ed enti di ricerca”, GEI 2015 , 23 September, Bertinoro, Italy.*
50. *Invited Speaker: Workshop on Innovative Solution for the Efficiency of Ports, 19th May, 2016, Port of Civitavecchia, Italy.*
51. *Key Note Speaker: Global Innovation Summit of Zhongguancun Science, 12th October, 2016, Beijing, China.*
52. *Key Note Speaker: Learning Revolution in Higher Education, 17th March, 2017, Bangkok, Thailand.*