Alessandro Sorce

Fixed-term assistant professor

✉ alessandro.sorce@unige.it
☎ +39 0103532358

Education and training

2013
PhD degree European label Turbomachinery Engineering
Monitoring and Diagnosis of Energy Systems
Università degli Studi di Genova - Genova - IT

2009
Professional practice examination for industrial engineer
Università degli Studi di Genova - Genova - IT

2009
Masters degree in Mechanical Engineering
Recuperator experimental investigation and anodic circuit design of SOFC
Hybrid Systems emulator - 110/110 cum laude
Università degli Studi di Genova - Genova - IT

2006
Bachelors degree in Mechanical Engineering
Technical potential of combined heat and power generation in Sicilian
industrial sector - 110/110 cum laude
Università degli Studi di Palermo - Palermo - IT

Academic experience

2016 - ONGOING
Assistant Professor
Università degli Studi di Genova - Genova - IT

2013 - 2016
Applied researcher
Università degli Studi di Genova - Genova - IT
Support to the Tirreno Power diagnostic room. Develop and test of Long
Term Monitoring algorithms and performance calculations. Assessment and
comparison over time of combined cycle power plant basing on Ansaldo
and General Electric Gas turbine frames. Develop of solutions aiming to the
Technical focus on particular events or feasibility studies (fast start-up
operations flexibility and production cost reduction)

Work experience

2010 - 2011
Working student
Siemens - Power Diagnostic Centre - Muelheim an der Ruhr - DE
Support to the remote diagnostic of Gas Turbine based power plants. Performance calculation. Development of numerical models and long term monitoring rules

Language skills

English
Independent

Teaching activity

A.A 2018/19
SISTEMI ENERGETICI (cod: 60221) INGEGNERIA
SYSTEM MANAGEMENT FOR ENERGY AND ENVIRONMENT (cod: 94667) INGEGNERIA

Research interests

He graduated in 2013 as PhD at the "Science and Technology for Engineering" school of the University of Genoa carrying out his research in the field of "Energy Systems Diagnostics", taking care also of data validation process. From February 2010 to December 2012, he collaborated to the GENIUS European project developing the monitoring & diagnostic code for SOFC systems, validated on-line. From September 2010 to July 2011, he was at the Power Diagnostic Centre of Siemens at Muelheim an der Ruhr (Germany), inside the Operation Support group, focusing on the remote long term monitoring of Gas Turbine and Combined Cycle and on the development and optimization of the diagnostic process. From February 2013 to December 2014 he is collaborating at Tirreno Power, an Italian electricity producer, to develop and enhance the monitoring of Combined Cycle Power Plants based on different GT frames. At present, he collaborates with recognised energy companies in the Italian and International market, on the topic of expert monitoring systems and process flexibility.

Grants

2017 - ONGOING
Pump Heat - Performance Untapped Modulation for Power and Heat via Energy Accumulation
European Community
Participant
http://www.tpg.unige.it/TPG/projects/#toggle-id-3

Genius - GEneric diagNosis InstrUment for SOFC Systems

European Community

Participant

http://www.tpg.unige.it/TPG/projects/#toggle-id-26