

Docente non Universitario

Esperienze

November 2016 - present

Chair

Italian Chapter of the IEEE Consumer Electronics Society

• Applied Artificial Intelligence in the consumer healthcare sector

• Signal analysis and clustering via Machine Learning techniques from wearable sensors and mobile devices

• Consumer and Service Robotics

Business or sector eHealth, consumer healthcare

January 2015 - present

Consultant

Apio srl (www.apio.cc)

• Applied Artificial Intelligence for IoT intelligent analytics and self discovering of equipment faults

• "The Colour of The World" - Applied affective computing (semantically analyzing social networks insights) to control indoor lighting depending on the World's feelings

• "The Comfort Box" - Interoperable (BLE, WiFi, Zigbee, Z-Wave, EnOcean) IoT gateway able to detect the different indoor comfort levels

Business or sector Artificial Intelligence, Machine Learning, IoT

March 2014 - present

PostDoctoral Research Fellow

Universita' Politecnica delle Marche (Via Brecce Bianche, Ancona, Italy)

• Internet of Things applications for Smart Environments, Indoor Comfort, Smart Grid Management and Monitoring

• Robotics applications and Human Robot Interaction

• Applied Artificial Intelligence and Machine Learning to detect emotional states from video and biosignals gathered from commercial wearable devices

• Analysis, modelling, control, prediction and system identification of non linear systems

• Signal analysis and clustering via Machine Learning techniques

Business or sector Applied Artificial Intelligence Research

Pubblicazioni

List of publications on International Conferences and Journals (author and co-author until December 2015, the full updated list can be found on Google Scholar - Lucio Ciabattoni):

Fuzzy logic based economical analysis of photovoltaic energy management. Neurocomputing 07/2015; 170.

DOI:10.1016/j.neucom.2015.01.086

Household Electrical Consumptions Modeling and Management Through Neural Networks and Fuzzy Logic Approaches. Studies in Fuzziness and Soft Computing 01/2015: pages 437-467; Springer International Publishing., ISBN: 14349922

Multi-apartment residential microgrid monitoring system based on kernel canonical variate analysis.

Neurocomputing 07/2015; DOI:10.1016/j.neucom.2015.04.099

Indoor thermal comfort control through fuzzy logic PMV optimization. 2015 International Joint Conference on Neural Networks, IJCNN 2015, Killarney, Ireland; 07/2015

Solar Irradiation Forecasting for PV Systems by Fully Tuned Minimal RBF Neural Networks. Smart Innovation, Systems and Technologies, 05/2013: pages Volume 19, 2013, Pages 289-300; Springer-Verlag Berlin

Heidelberg., ISBN: 978-364235466-3

Fuzzy logic home energy consumption modeling for residential photovoltaic plant sizing in the new Italian scenario. Energy 09/2014; 74(1):359-367. DOI:10.1016/j.energy.2014.06.100

A Discrete-Time VS Controller based on RBF Neural Networks for PMSM Drives. Asian Journal of Control 03/2014; 16(1):1-13. DOI:10.1002/asjc.715

RBF neural networks based quasi sliding mode controller and robust speed estimation for PM Synchronous Motors. IECON 2010; 01/2015