

# Giuseppe LOSETO

Ph.D. | Assistant Professor, LUM University “Giuseppe Degennaro”

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- > Design and development of 15+ research prototypes exploiting semantic technologies in mobile and embedded platforms
- > Participation, coordination and management of 20+ national and international ICT projects
- > Experience in teaching technical and scientific subjects

## WORK EXPERIENCE

Current Sep 2021	<b>Assistant Professor, LUM UNIVERSITY “GIUSEPPE DEGENNARO”, Italy</b> Department of Management, Finance and Technology <ul style="list-style-type: none"><li>&gt; Member of the Bachelor’s Degree committee in Business Engineering</li></ul>
Current Jul 2021	<b>Co-founder &amp; Software Engineer, DONKEYPOWER S.R.L., Italy</b> Academic spin-off of the Polytechnic University of Bari
Aug 2021 Jan 2013	<b>Post-Doc Research Fellow, POLYTECHNIC UNIVERSITY OF BARI, Italy</b> Department of Electrical and Information Engineering – <a href="#">Information Systems Research Group</a> <ul style="list-style-type: none"><li>&gt; Research and development of knowledge-based applications for mobile and embedded platforms exploiting <i>Semantic Web</i> and <i>Internet of Things</i> technologies</li><li>&gt; Supervisor of 30+ B.Sc. and M.Sc. theses on Semantic Web and Internet of Things</li><li>&gt; Support to 20+ national and international ICT projects</li></ul>
Jul 2020 Oct 2019	<b>Senior Researcher, ITS LOGISTICA PUGLIA, GE.IN.LOGISTIC FOUNDATION, Italy</b> Scientific coordination of the “WP T2 – PORTS Sea Lab” activities related to <i>PORTS</i> project (Partnership for the Observation and study of new Routes and Transnational Seahighways) funded by “Interreg IPA CBC Italy-Albania-Montenegro Programme”.

## TEACHING ACTIVITY

Current Sep 2021	<b>Academic Teaching Activities, LUM UNIVERSITY “GIUSEPPE DEGENNARO”, Italy</b> <ul style="list-style-type: none"><li>&gt; <i>Fundamentals of Computer Science</i>, Bachelor’s Degree in Business Engineering, specialising in “Digital Management”</li><li>&gt; <i>Artificial Intelligence for business</i>, Master’s Degree in Economics and Management, specialising in “Data science and digital transformation”</li><li>&gt; <i>Enabling technologies for a Digital Public Administration</i>, 2nd Level Specializing Master in Digital Transformation of the Public Administration</li></ul>
Current Jan 2013	<b>Academic Teaching Activities, POLYTECHNIC UNIVERSITY OF BARI, Italy</b> <ul style="list-style-type: none"><li>&gt; <i>Databases and Information Systems</i>, B.Sc. in Computer and Automation Engineering</li><li>&gt; <i>Information Systems - Module II</i>, M.Sc. in Business Engineering</li><li>&gt; <i>Databases and Business Intelligence</i>, 2nd level Specializing Master in in Data Science</li><li>&gt; <i>Data Management and Business Intelligence</i>, 2nd Level Specializing Master in Data Science</li></ul>
Mar 2015 Nov 2013	<b>Teaching Activities for ICT training courses, , Italy</b> <ul style="list-style-type: none"><li>&gt; <i>Management and configuration of computer networks</i> – <a href="#">Centro Studi Levante</a>, Molfetta (IT)</li><li>&gt; <i>Database modeling and implementation</i> – <a href="#">IPSSAR Alberghiero</a>, Molfetta (IT)</li><li>&gt; <i>Introduction to e-commerce</i> – <a href="#">Programma Sviluppo</a>, Bari (IT)</li><li>&gt; <i>Languages for DBMS : SQL</i> – <a href="#">Centro Studi Levante</a>, Molfetta (IT)</li><li>&gt; <i>Software development and algorithms</i> – <a href="#">Gruppo Musa Scuole</a>, Andria (IT)</li><li>&gt; <i>Databases and Information Systems</i> – <a href="#">Centro Studi Levante</a>, Molfetta (IT)</li></ul>

## EDUCATION

- 2010–2012 Ph.D. in Information Engineering**, Polytechnic University of Bari, Italy  
Thesis *Knowledge representation techniques and technologies for smart devices in intelligent buildings*  
Design of an enhancement to ISO/IEC 14543-3 **EIB/KNX** standard for building automation exploited to develop a distributed HBA systems grounded on Semantic Web technologies.
- 2007–2009 Master's Degree in Computer Engineering**, Polytechnic University of Bari, Italy  
Curriculum Information Systems and Networks (110/110 cum laude)  
Thesis *Development of concept contraction algorithms using Java-based object-oriented database*  
Redesign of non-standard inferences for mobile devices (based on **J2ME**) exploiting a **DB4O** OODBMS.
- 2003–2006 Bachelor's Degree in Computer Engineering**, Polytechnic University of Bari, Italy  
Thesis *A mobile resource registry for semantic-based composition*  
Development and optimization of non-standard inference services (based on Description Logics) exploiting a mobile RDBMS (**Oracle 10g Lite**) for mobile devices based on **J2ME**.

## SCIENTIFIC PROFILE

- > **Research Interests** : Semantic Web of Things, Semantic-enabled resource discovery, Machine Learning in IoT platforms.
- > Co-author of **40+ scientific papers** in international books, journals (IEEE Transactions on Industrial Informatics, Semantic Web Journal) and conferences (ESWC'11, ISWC'16, SAC'17, TheWebConf'18, ISWC'21). Full list of publications on [Google Scholar](#).
- > Member of Editorial Boards (Sensors, Journal of Low Power Electronics and Applications)
- > Member of Program and Local Committee (ISWC P&D 2021, HUSO 2020-21, UBICOMM 2019-21, IoTBDS 2017-21, SEMAPRO 2017-21, MobiSPC 2019-20, SMC 2019, IUPT 2013-18, I-CiTies 2017, UCIOIOT 2017, IWASI 2015)
- > Reviewer for international journals and conferences

## SELECTED RESEARCH PROJECTS

### PHYSICAL SEMANTIC WEB

2016–2018

[swottools/physicalweb](#) [github.com/sisinflab-swot/physical-semantic-web](#) [Demo @TheWebConf 2018](#)

Enhancement of the Google [Physical Web](#) framework exploiting Semantic Web technologies. Developed toolkit includes : (i) a Java SE library containing basic data structures; (ii) a mobile client for Android devices; (iii) libraries to advertise and discover PSW beacons using Node.js through embedded devices (e.g., Raspberry Pi, Intel Edison); (iv) a **ROS**-based project exploiting the PSW framework for robot interaction.

[Java](#) [Android](#) [OWL](#) [Node.js](#) [BLE](#) [Eddystone](#) [Raspberry Pi](#) [Android Things](#) [ROS](#)

### LDP-CoAP : LINKED DATA PLATFORM FOR THE CONSTRAINED APPLICATION PROTOCOL

2015–2017

[swottools/ldp-coap](#) [github.com/sisinflab-swot/ldp-coap-framework](#) [Presentation @ISWC 2016](#)

Mapping of both **W3C LDP** and **W3C LDN** specification for **RFC 7252** Constrained Application Protocol (CoAP) to publish Linked Data on the WoT. The Java-based framework is based on a LDP-enhanced version of the [Eclipse Californium](#) library.

[LDP](#) [LDN](#) [CoAP](#) [Java](#) [Android](#) [Raspberry Pi](#)

### MAFALDA : MATCHMAKING FEATURES FOR MACHINE LEARNING DATA ANALYSIS

2015–2018

[github.com/sisinflab-swot/mafalda](#) [Paper @Semantic Web Journal 2018](#)

Framework for data mining on sensor streams, amenable to resource-constrained contexts. It merges an ontology-based characterization of data distributions with non-standard reasoning for a fine-grained event detection by treating the typical classification problem of ML as a resource discovery. Prototypical Android app developed for road and traffic monitoring and real-time driver assistance.

[Java](#) [Android](#) [OWL](#) [Weka](#) [Raspberry Pi](#)

More information about other developed projects available on [sisinflab.poliba.it/swottools](http://sisinflab.poliba.it/swottools)

## LANGUAGES

Italian   
English 

## OTHER ACTIVITIES

- > Member of W3C [LDP-Next](#) Community Group
- > [Oracle Academy](#) representative for the Polytechnic University of Bari (2015-21)

## AWARDS

- > **Google IoT Technology Research Award 2016** for the project “Physical Semantic Web”
- > **KNX Award 2012 Nomination** for the project “Semantic Web of Things at Home with KNX” (category *Special*)
- > **Best Poster Award** at [ESWC 2011](#), the 8th Extended Semantic Web Conference