

## ASSISTANT PROFESSOR

Dipartimento di Ingegneria e Architettura (DIA)  
Università degli Studi di Trieste  
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**ANDREA.DELORENZO@UNITS.IT**

# ANDREA DE LORENZO

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## ACADEMIC POSITIONS

### **Assistant Professor** – *University of Trieste*

NOVEMBER 2019 – PRESENT

Assistant professor (Ricercatore Universitario) in Computer Engineering (Sistemi di Elaborazione dell'Informazione) at DIA, University of Trieste

### **Post-doc** – *University of Trieste*

MAY 2018 – NOVEMBER 2019

Post-doc research fellow at DIA working on “Development of evolutionary and neuroevolutionary optimization techniques”

### **Post-doc** – *University of Trieste*

JUNE 2014 – MAY 2016

Post-doc research fellow at DIA working on “Novel techniques for automatic generation of text extraction patterns from examples”

## SCIENTIFIC ACTIVITY

I work on **machine learning** and **evolutionary computation** and their applications to engineering related research topics, such as:

- Genetic Programming and its application
- knowledge and data engineering: information extraction, time series prediction, data mining, large-scale text analysis, sentiment analysis, regular expression generation
- web and mobile security: Android malware detection, wireless network security, phishing detection, security oriented analysis
- computer vision: face detection and recognition

### **Publications**

The list is available at: <http://delorenzo.inginf.units.it/publications>

### **Organization, editorial, reviewing, and evaluation activities**

- Member of the program committee:
  - Genetic and Evolutionary Computation Conference – Genetic Programming track (EML) (GECCO 2019, 2020)

- Special Session on Serious Games to Improve Quality of Life at the EAI International Conference on Smart Objects and Technologies for Social Good (Goodtechs 2018)
  - FORmal methods for Security Engineering (ForSE 2018, ForSE 2019)
- Reviewer for international conferences:
  - International Conference on Tools with Artificial Intelligence
  - Signal Processing and Analysis
  - IEEE Control Systems Society Conference Management System
- Reviewer for international journals:
  - Elsevier Journal of Air Transport Management
  - IEEE Transactions on Cybernetics
  - IEEE Transactions on Information Forensics & Security
  - Cybernetics and Information Technologies
  - Journal of Applied Soft Computing
  - MDPI Symmetry
- Guest Editor:
  - special Issue "Genetic Programming" hosted by MDPI Algorithms

## EDUCATION

### **PhD in Information Engineering** – *University of Trieste*

JANUARY 2011 – APRIL 2014

Thesis titled “Genetic Programming Techniques in Engineering Applications”

### **Master degree** – *University of Trieste*

SEPTEMBER 2006 – MARCH 2010

Thesis titled “Progetto e realizzazione di un sistema per l’annotazione automatica di immagini con tecniche di Web Mining”

### **Bachelor degree** – *University of Trieste*

SEPTEMBER 2003 – OCTOBER 2006

## AWARDS

Silver medal at the **Human-Competitive Results Produced by Genetic and Evolutionary Computation Awards (Humies 2016)** with the proposal “*Can a machine replace humans in building regular expressions? A case study*”, along with 3 other team members.

## ACADEMIC SERVICE DUTIES

- Since 2017: communications delegate by the head of the DIA, University of Trieste

## ACADEMIC TEACHING

- 2020: holder of the course “Introduction to Machine Learning” (12 hours, Dottorato in Chimica, University of Trieste)
- 2019/2020, holder of the course “Database” (079IN, “Basi di Dati”, 9 CFU, III anno del corso di LAUREA IN INGEGNERIA ELETTRONICA E INFORMATICA)

- 2016/2017 - 2017/2018, holder of the course “Principles of Computer Science” (013IN, “Fondamenti di Informatico”, 9 CFU, I anno del corso di LAUREA IN INGEGNERIA INDUSTRIALE)

### **Supervision**

- Advisor and co-advisor for several master and undergraduate thesis in the fields of above mentioned scientific activities.
- Co-advisor for PhD thesis in the field of machine learning: Deniz Ertuncay