

## 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

### **Associate Professor** – *University of Trieste*

NOVEMBER 2022 – PRESENT

Associate professor (Professore Associato) in Computer Engineering (Sistemi di Elaborazione dell'Informazione) at DIA, University of Trieste

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

NOVEMBER 2019 – NOVEMBER 2022

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
- applications of neural networks (pythorch and tensorflow frameworks)

### **Publications**

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

## Organization, editorial, reviewing, and evaluation activities

- Member of the Editorial Board
  - Cybernetics and Information Technologies (OCTOBER 2021 – PRESENT)
- Organizer and/or (co-)chair:
  - co-chair of the organizing committee of the DidaMatica 2020 national conference on Teaching and Computer Science (Didattica and Informatica)
  - organization of Workshop on Evolutionary and Population-based Optimization (WEPO) 2020
  - organization of Workshop on Evolutionary and Population-based Optimization (WEPO) 2021
- Member of the program committee:
  - Genetic and Evolutionary Computation Conference – Genetic Programming track (GP) (GECCO 2019, 2020, 2021, 2022)
  - 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, 2019, 2020, 2021)
  - ACM International Conference on Information Technology for Social Good (GoodIT 2022)
  - FORmal methods for Security Engineering (ForSE 2018, 2019, 2020, 2021)
  - DidaMatica – Didattica and Informatica (2020, 2021)
- 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
  - Elsevier Information and Software Technology
  - IEEE Transactions on Cybernetics
  - IEEE Transactions on Information Forensics & Security
  - Genetic Programming and Evolvable Machines
  - Cybernetics and Information Technologies
  - Journal of Applied Soft Computing
  - Information and Software Technology
  - MDPI Symmetry
  - Digital Communications and Networks
- Guest Editor:
  - special Issue “Genetic Programming” hosted by MDPI Algorithms
  - special Issue “Cybersecurity” hosted by MDPI Applied Science

## 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*

## 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 2020: communications delegate by the head of the DIA, University of Trieste

## ACADEMIC TEACHING

- 2020 – 2021: holder of the course “Introduction to Machine Learning” (12 hours, Dottorato in Chimica, University of Trieste)
- 2019/2020 – 2020/2021 – 2021/2022 – 2022/2023: holder of the course “Database” (079IN, “Basi di Dati”, 9 CFU, III anno del corso di LAUREA IN INGEGNERIA ELETTRONICA E INFORMATICA)
- 2021/2022 – 2022/2023: holder of the course “Web Development” (092MI, “Programmazione Web”, 6 CFU, II anno del corso di LAUREA MAGISTRALE 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

- Supervisor of PhD students currently pursuing their theses: Luigi Rovito
- 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

### PhD faculty board

- Since 2021: member of the PhD faculty board (Collegio docenti) of the PhD program in Applied Data Science and Artificial Intelligence at DMG, University of Trieste