



# Antonio Roberto

AI RESEARCHER

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## Education

### PhD Student

*University of Salerno | December 2019 - current*

- Research activities in the field of Social Robotics
- Audio representation learning in the wild for Sound Event Detection and Speaker Re-Identification
- On-robot conversational artificial intelligence algorithms

### Research grant

*University of Salerno | December 2018 - November 2019*

- Deep Learning algorithms for Sound Event Detection.

### Master Degree in Computer Engineering

*University of Salerno | October 2016 - December 2018*

- 110/110 cum laude
- International thesis entitled "A method for forecasting financial time series based on empirical mode decomposition and manifold learning"

## Research abroad

### ENSICAEN - Ecole Nationale Supérieure d'Ingénieurs de Caen

*CAEN (FR) | July 2021 - October 2021*

- Research collaboration with the IMAGE team of the GREYC laboratory on the topic "Speech analysis for Speaker Identification and Soft-Biometrics recognition based on Deep Learning methods"

### Rijksuniversiteit Groningen

*GRONINGEN (NL) | September 2018 - December 2018*

- Erasmus period in collaboration with the Intelligent Systems research group on the topic "Financial time series forecasting".

## Contacts

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Fisciano (SA), 84084

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💻 robertanto.github.io

## Languages

- Italian
- English (C1 Level)

## Soft Skills

- Adaptability
- Curiosity
- Quick Learning
- Problem Solving
- Critical Thinking



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## Publications

- A Challenging Voice Dataset for Robotic Applications in Noisy Environments. CAIP 2019. Springer.
- Emotion analysis from faces for social robotics. SMC 2019. IEEE.
- A deep convolutionary network for automatic detection of audio events. APPIS 2020.
- Which are the factors affecting the performance of audio surveillance systems?. ICPR 2020. IEEE.
- Predicting Polypharmacy Side Effects Through a Relation-Wise Graph Attention Network. S+SSPR 2020. Springer.
- DENet: a deep architecture for audio surveillance applications. Neural Computing and Applications, 1-12. 2021. Springer.

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💻 [github.com/robertanto](https://github.com/robertanto)

## Hard Skills

- Python, C
- Tensorflow, Keras, PyTorch
- Numpy, Pandas
- Docker, Linux
- Apache Spark

## Extracurriculars

- Student representative
- Saxophonist in a Blues band
- Cultural Associationist

## Relevant Projects

### Social Robot application @ FIERA SICUREZZA 2021

MILAN (IT) | November 2021

- Design and development of a Social Robotic application for the Fiera Sicurezza fair.
- Spoken Language Understanding, Dialogue Management, Soft-Biometrics Recognition, People Tracking at edge on a NVIDIA Jetson Xavier NX embedded system

## Other activities

### CAIP 2021 - Program committee

Virtual conference | October 2021

- Program committee member at the 19th International Conference on Computer Analysis of Images and Patterns.

### CAIP 2019 - Local committee

Salerno (IT) | September 2019

- Local committee member at the 18th International Conference on Computer Analysis of Images and Patterns.