Daniela Grassi

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daniela-grassi-3850521ba

Work Experience

July 2023 – September 2023

Research Assistant

Università degli studi di Bari Aldo Moro
Research Assistant at Collaborative Research Group:

- "Development and Deployment of a Classifier for Emotion Recognition in Software Developers Using Non-Invasive Biometric Sensors"
- Supervisor: prof. Filippo Lanubile

March 2022 – May 2022

Master Curricular Internship

Università degli studi di Bari Aldo Moro - Computer Science Department
Curricular internship aimed at carrying out the master degree thesis in Computer Science:

- Design and implementation of a visualization tool to support emotion awareness during retrospective meeting with the support of biometric sensors.
- Skills acquired: recognition of emotions through biometric sensors, processing of biometric signals relating to Heart Rate and Galvanic Skin Response.

October 2021 – July 2022

Research Assistant

Università degli studi di Bari Aldo Moro - Collaborative Development Group

- Recognition of emotions through non-invasive biometric sensors

March 2020 – June 2020

Curricular Internship

Università degli studi di Bari Aldo Moro - Computer Science Department
Curricular internship aimed at carrying out the degree thesis in Computer Science:

- Design and implementation of a classifier for the recognition of emotional polarity during the software development activity. Experimentation of supervised learning techniques with features extracted from the analysis of biometric signals
- Skills acquired: recognition of emotions through biometric sensors, machine learning, processing of biometric signals relating to Heart Rate and Galvanic Skin Response.

Education

2022 – present

PhD Student in Mathematics and Computer Science

Dottorato di Ricerca in Matematica e Informatica
Università degli Studi di Bari - Computer Science Department

2020 – 2022

Master Degree in Computer Science

Laurea Magistrale in Computer Science
Università degli Studi di Bari - Computer Science Department

- Curriculum: Artificial Intelligence
- Thesis title: A tool to support emotion awareness during retrospective meeting
- Mark: 110/110 cum Laude
- Degree Date: September 28th, 2022
- In collaboration with Alexander Serebrenik Full Professor at Eindhoven University of Technology (TU/e)

2017 – 2020 **Bachelor Degree in Computer Science**

Laurea Triennale in Informatica

Università degli Studi di Bari - Computer Science Department

- Thesis title: Emotion recognition of software developers based on non-invasive biometric sensors
- Mark: 110/110 cum Laude
- Degree Date: October 19th 2020
- In collaboration with Alexander Serebrenik Full Professor at Eindhoven University of Technology (TU/e)

Pubblications

2024 D. Grassi "Supporting Developers' Emotional Awareness: from Self-reported Emotions to Biometrics". Proceedings of the 28th International Conference on Evaluation and Assessment in Software Engineering, EASE '24

2023 D. Grassi, N. Novielli, F. Lanubile, & A. Serebrenik. "Towards Supporting Emotion Awareness in Retrospective Meetings". In Proceedings of the ACM/IEEE 45th International Conference on Software Engineering: New Ideas and Emerging Results, ser. ICSE-NIER '23 Melbourne, Australia.

2022 N. Novielli, D. Grassi, F. Lanubile, A. Serebrenik "Sensor-Based Emotion Recognition in Software Development: Facial Expressions as Gold Standard" to appear in Proceedings of the 10th International Conference On Affective Computing & Intelligent Interaction (ACII 2022), accepted on July 15th 2022

Skills

Spoken Languages English

- Level B2 certification issued by the teacher responsible for the English language courses for the Degree in Computer Science of the University of Bari.

Italian (Native)

Coding C, C++, Java, Prolog, Scala, Python and scientific packages(Pandas, NumPy, sklearn, Tensorflow, PyTorch)

Machine Learning Supervised and Unsupervised Learning, Data Modeling and Evaluation, Neural Network Architectures, Natural Language Processing, Computer Vision.

Emotion Recognition Sensor-based Emotion Recognition, Sentiment Analysis.

Human Aspects in SE Design and implementation of empirical studies, User studies in software engineering.

Databases Cassandra, MySQL, Neo4j, Oracle, MongoDB

Developing environments Git, GitHub, PyCharm, Anaconda, Jupyter Notebook, Google Colab, Visual Studio Code, IntelliJ IDEA, RStudio