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MATTEO FILOSA CURRICULUM VITAE

Matteo Filosa is a **graduate student** in Engineering in Computer Science (scientific disciplinary sector **ING-INF/05**) at Sapienza Università di Roma, Italy, Dipartimento di Ingegneria Informatica, Automatica e Gestionale Antonio Ruberti (DIAG - Department of Computer, Control and Management Sciences and Engineering).

Part I – General Information

Full Name	Matteo Filosa
Spoken Languages	Italian (Native), English (Excellent), French (Elementary Proficiency)

Part II – Education

Type	Year	Institution	Notes
University graduation	2023	Sapienza University of Rome	<u>Master's Degree in Engineering in Computer Science. Final mark: 105/110.</u> <u>Master Thesis: "Assessing the automated modeling of exploratory user interaction in visual systems".</u> <u>Advisor: Prof. Tiziana Catarci</u>
University graduation	2020	Sapienza University of Rome	<u>Bachelor's Degree in Engineering in Computer Science. Final mark: 101/110.</u> <u>Bachelor Thesis: "Gymtastic: il sito per creare il tuo piano di allenamento".</u> <u>Advisor: Prof. Riccardo Rosati</u>

Part III – Research interests

The research interests of Matteo Filosa concern theoretical, methodological, and practical aspects in different areas of Computer Science, including Process Modeling and Human-Computer Interaction. Such topics have been challenged in the application domains of visualizations' optimization.

For publication

Since October 2022, Matteo Filosa has been part of an international team, involved in a research activity about modelling visualizations and exploiting those models to optimize queries performed against a database, to reduce latency in particular cases of user interaction.

Keywords	Brief Description
Process Modeling <i>Automated generation of models for exploratory user interaction</i>	Process Modeling is the first and most important step in the BPM lifecycle, which intends to provide a high-level specification of a business process that is independent from implementation and serves as a basis for process automation and verification. On this topic, Matteo Filosa is currently investigating, in the context of an international research group, how to provide <i>automatic techniques for process modeling</i> that could discover and visualize the <i>state chart</i> representing the user interaction in visualization systems.
Human-Computer Interaction <i>Multimodal User Interfaces (UIs), Usability of Interactive Systems</i>	Human-Computer Interaction (HCI) is a research topic focusing on the interfaces between users and computers. In the context of HCI, the current research of Matteo Filosa concentrates on modeling information visualizations and exploiting the models to build the expected users' behavior that can be used to generate predictions and perform query optimization. His current activities tackle a well-known (unsolved) challenge in this area, namely the <i>automated quantification of usability of interactive systems</i> .

Part IV – Publications

Theses

- M1. **M. Filosa**. *Assessing the automated modeling of exploratory user interaction in visual systems* M.Sc. Thesis in Engineering in Computer Science, Sapienza University of Rome, Italy. January 2023.
- B1. **M. Filosa**. *Gymtastic: il sito per creare il tuo piano di allenamento*. B.Sc. Thesis in Engineering in Computer Science, Sapienza University of Rome, Italy. October 2020.

Part V – Under review

Tiziana Catarci, Marco Angelini, Dario Benvenuti, **Matteo Filosa**. *Title not shown for anonymity*, 19th International Conference of Technical Committee 13 (Human- Computer Interaction) of IFIP (International

For publication

Federation for Information Processing), INTERACT 2023, York, United Kingdom, 28th August – 1st September 2023.

Part VI – Further Information

(VI A) – Participation to Research Groups

Matteo Filosa is/has been involved in the following research group:

(June 2022 – present) **International research group** about the enhancing and optimization of the classic visualization pipeline. Contribution on the validation of the automatic discovery of violations in latency on Falcon's 7 million flights visualization system by performing an analytical-based user study.

(VI B) – Erasmus Experience

(February 2022 – June 2022) **Participation to the Erasmus+ Programme in Linköping, Sweden:** Matteo Filosa studied in Linköping University, taking 4 exams.

(VI C) - Academic Results:

Following, there is the list of my academic results for both the undergraduate and the graduate degree. The format is Name – Date(dd/mm/yyyy) – Mark.

- **Undergraduate degree:**

- Analisi Matematica I – 17/01/2018 – 20
- Fondamenti di Informatica I – 22/01/2018 – 19
- Geometria – 19/02/2018 – 21
- Lingua Inglese – 13/06/2018 – Idoneo
- Tecniche di Programmazione – 13/06/2018 – 30
- Fisica – 25/07/2018 – 18
- Teoria dei Sistemi – 10/01/2019 – 21
- Ricerca Operativa – 28/01/2019 – 30
- Calcolo delle Probabilità e Statistica – 15/02/2019 – 21
- Analisi Matematica II - 18/02/2019 – 30
- Progettazione del Software – 10/06/2019 – 24
- Controlli Automatici – 14/06/2019 – 23
- Sistemi di Calcolo – 24/06/2019 – 30L
- Fondamenti di Informatica II – 13/09/2019 – 24
- Economia e Organizzazione Aziendale – 15/01/2020 – 26
- Telecomunicazioni – 21/01/2020 – 27
- Basi di Dati – 24/01/2020 – 26

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- Sistemi di Calcolo II – 20/02/2020 – 25
- Laboratorio di Intelligenza Artificiale e Grafica Interattiva – 08/06/2020 – Idoneo
- Linguaggi e Tecnologie per il Web – 09/06/2020 – 30
- Programmazione Funzionale e Parallela – 22/06/2020 – 30
- Reti di Calcolatori – 07/07/2020 – 24
- Elettronica – 15/09/2020 – 30
- Prova Finale – 30/10/2020 – Idoneo
- **Graduate degree:**
 - Algorithm Design – 04/02/2021 – 25
 - Network Infrastructures – 18/02/2021 – 28
 - Capacity Planning – 09/06/2021 – 19
 - Human Computer Interaction – 23/06/2021 – 29
 - Digital Entrepreneurship – 05/07/2021 – 30
 - Distributed Systems and Computer and Network Security – 15/07/2021 – 22
 - Software Engineering – 23/07/2021 – 24
 - Data Management – 17/01/2022 – 26
 - System and Enterprise Security – 04/02/2022 – 28
 - Mobile Applications and Cloud Computing – 11/02/2022 – 30
 - Machine Learning * – 12/07/2022 – 27
 - Seminars in Advanced Topics in Computer Science Engineering * – 12/07/2022 – Idoneo
 - Social Networks and On-line Markets * – 12/07/2022 – 27
 - Web Security and Privacy * – 12/07/2022 – 30
 - Prova Finale – 31/01/2023 – Idoneo
- ***: Exams taken abroad (Name – Mark [Scale: from 1 to 5]):**
 - Advanced Web Programming – 5
 - Automated Planning – 3
 - Software Quality – 4
 - Web Programming – 3

Date: 08/02/2023

(non soggetta ad autentica ai sensi dell'art. 39 del D.P.R. 28.12.2000, n. 445)