




Matteo Tiezzi– Curriculum Vitae

Personal Information

Address	(removed online version)
Nationality	Italian
Date of Birth	3 rd October 1991
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Current Position

2017- now **PhD Student**, Information Engineering - Artificial Intelligence and Machine Learning
University of Siena, Italy
Advisor Prof. Marco Maggini

Research Interests

I am generally interested in Artificial Intelligence, Machine learning, and other connected areas of computer science. My recent contributes are related to both the application of Deep Learning models to sequence and video analysis, regarding Computer Vision tasks, and foundational studies regarding novel learning algorithms and neural models. Moreover, my interests include models suited to structured data, in particular Graph Neural Networks).

Education

- 2017** **M.S.**, Computer and Automation Engineering (Information Systems), final mark 110/110 and Lode (full marks with honors)
Advisor Prof. Marco Maggini
Thesis:
Traffic events monitoring with recurrent neural networks
- 2014** **B.S.**, Computer and Information Engineering, final mark 108/110
Advisor Prof. Marco Maggini
Thesis:
Estrazione automatica di informazioni salienti da pagine Web con XPath
(Automatic extraction of relevant information from Web pages using XPath)
- 2010** Liceo Scientifico F. Redi - Arezzo, (AR) Italy, final mark 95/100
High school certificate of education ("Maturità Scientifica")

Publications - International Conferences

- 2020** M. Tiezzi, G.Marra, S. Melacci, M. Maggini, M. Gori:
A Lagrangian Approach to Information Propagation in Graph Neural Networks
European Conference on Artificial Intelligence (ECAI 2020)

- 2020** M. Tiezzi, G.Marra, S. Melacci, M. Maggini, M. Gori:
Lagrangian Propagation Graph Neural Network
 AAAI 2020 W8S Workshop (Deep Learning on Graphs: Methodologies and Applications - DLGMA'20)
- 2020** G.Marra, M. Tiezzi, S. Melacci, A.Betti, M. Maggini, M. Gori:
Local Propagation in Constraint-based Neural Networks
 International Joint Conference on Neural Networks (IJCNN2020)
- 2018** M. Tiezzi, S. Melacci, M. Maggini, A. Frosini:
Video Surveillance of Highway Traffic Events by Deep Learning Architectures
 International Conference on Artificial Neural Networks (ICANN2018) , 584-593
- 2018** A. Rossi, M. Tiezzi, GM. Dimitri, M. Bianchini, M. Maggini, F. Scarselli :
Inductive-Transductive Learning with Graph Neural Networks
 IAPR Workshop on Artificial Neural Networks in Pattern Recognition (ANNPR2018), 201-212

Attended Conferences and Workshops

- Feb.2020** Thirty-Fourth AAI Conference on Artificial Intelligence (AAAI2020)
 Deep Learning on Graphs: Methodologies and Applications - DLGMA'20,
 New York (USA)
- Oct.2018** International Conference on Artificial Neural Networks,
 Rhodes (Greece)
- June.2019** Summer School on Optimization, Big Data and Applications (OBA Summer School)
 Veroli (Italy)
- July.2019** Organizer and Speaker at the ACDL Satellite Workshop on Graph Neural Networks,
 Siena (Italy)
- Oct.2019** Speaker at LinuxDay and Artificial Intelligence @ SIENA 2019,
 Siena (Italy)

Peer-Reviewer

International Conferences

International Conference on Artificial Neural Networks,
 ICANN 2019

Journals

IEEE Transactions on Neural Networks and Learning Systems,
 TNNLS
 Elsevier Neurocomputing

Grants and Awards

- **Three years Ph.D. Scholarship at Department of Information Engineering, University of Siena, Siena, ITALY**
- **Recurrent neural networks for vehicle traffic event and state monitoring, DIISM and IsTech s.r.l. scholarship**
- **Premio Matteo Lanzoni 2017 (Matteo Lanzoni Prize), Best thesis on road safety**
- **SoBigData Soccer Data Challenge, Oct. 2018, member of the winning team**

Internships

July 2016 - Jan. 2017

DIISM Siena - isTech S.r.l , Pistoia

I won a scholarship for a research internship at Dipartimento di Ingegneria dell'Informazione e Scienza Matematiche di Siena and IsTech s.r.l regarding the implantation and validation of a prototype system for vehicle traffic events monitoring, using recurrent neural networks.

June 2014 - Nov. 2014

QuestIt S.r.l , Siena

Analysis and information extraction from web pages

Use of XPath to extract relevant information from web pages as input to MySnooper service.

Computer skills

Operating Systems

Operating Systems: Windows (all versions), Linux (various distros, mainly Ubuntu)

Languages

C, C++, HTML, CSS, XPath, XML, Python

Development Env.

Microsoft Visual Studio, Pycharm, NetBeans

Applications

Microsoft Office, OpenOffice, Gimp, \LaTeX , Sony Vegas

Misc

Experience and knowledge of PC components, peripherals and networking.

Languages

Italian (mother tongue)

English (very good reading/writing skills, good oral skills)

Cambridge PET certification obtained (final score: Pass with Merit)

B2 English eligibility obtained during the M.S.