Andrea Zugarini- Curriculum Vitae

Personal Information

Address Viale della Resistenza 132, 06064 - Panicale (Perugia), ITALY

Email andrea.zugarini@unifi.it

WWW https://andreazugarini.github.io/

Nationality Italian

 Date of Birth
 30^{th} October 1991

 Voice (Mobile)
 +39 3490933257

Current Position

2017- now PhD Student in Smart Computing

Universities of Florence and Siena, Italy

Advisor Prof. Marco Maggini

Research Interests

I have always been interested in Machine Learning and Optimization problems. In the last few years I mostly worked on Natural Language Processing.

The goal of my research project is in Conversational Agents applications, which involve Information Extraction and Language Generation. I am currently working in Text Generation, with particular focus on poem generation. My interests include also, word representations, recurrent neural networks, transfer and few-shot Learning.

Education

2017 M.S. (cum Laude), Computer and Automation Engineering, Università degli Studi di Siena

Advisor Prof. Marco Gori

Thesis:

Information Extraction by Learning Deep Architectures from Constraints

2014 B.S. School of Computer Engineering, Università degli Studi di Firenze - Dipartimento di Ingegneria

Advisor Prof. Fabio Schoen

Thesis:

Utilizzo di Algoritmi di Clustering per l'Ottimizzazione di Strutture Molecolari

(Clustering techniques for molecular structures optimization)

2010 High school diploma: Scientific Certificate, Liceo Scientifico Italo Calvino - Città della Pieve, (PG) Italy

mark 100/100

Academic Experiences

Mar 2020 Lecturer, department of Philology and Literary Criticism:

Master INFOTEXT - Basi di Dati (Databases),

Master in Informatica del Testo ed Edizione Elettronica, 27 hours

May 2019 Lecturer, Trade, turism and services association of Arezzo:

HTML, CSS3, XML (Web Class),

Digital Media Specialist Certificate, 40 hours

Mar 2019 Lecturer, department of Philology and Literary Criticism:

Master INFOTEXT - Basi di Dati (Databases),

Master in Informatica del Testo ed Edizione Elettronica, 27 hours

Feb 2018 Lecturer, department of Philology and Literary Criticism:

Master INFOTEXT - Basi di Dati (Databases),

Master in Informatica del Testo ed Edizione Elettronica, 27 hours

Publications

Journals

2019 M. Maggini, G. Marra, S. Melacci, A. Zugarini:

Learning in Text Streams: Discovery and Disambiguation of Entity and Relation Instances

Accepted to IEEE Transactions on Neural Networks and Learning Systems - TNNLS

2018 O. Spiga, V. Cicaloni, A. Zatkova, L. Millucci, G. Bernardini, A. Bernini, B. Marzocchi, M. Bianchini,

A. Zugarini, A. Rossi, M. Zazzeri, A. Trezza, B. Frediani, L. Ranganath, D. Braconi, A. Santucci:

A new integrated and interactive tool applicable to inborn errors of metabolism:

Application to alkaptonuria

Computers in biology and medicine - Volume 103, 1-7

International Conferences

2019 A. Zugarini, S. Melacci, M. Maggini:

Neural Poetry: Learning to Generate Poems Using Syllables

International Conference on Artificial Neural Networks - ICANN 2019, 313-325

2019 A. Zugarini, S. Melacci, M. Maggini:

Neural Paraphrasing by Automatically Crawled and Aligned Sentence Pairs

Sixth International Conference on Social Networks Analysis, Management and Security (SNAMS) 2019, 429-434

2018 G. Marra, A. Zugarini, S. Melacci, M. Maggini:

An Unsupervised Character-Aware Neural Approach to Word and Context Representation Learning

International Conference on Artificial Neural Networks - ICANN 2018, 126-136

2018 A. Zugarini, J. Morvan, S. Melacci, S. Knerr, M. Gori:

Combining deep learning and symbolic processing for extracting knowledge from raw text

IAPR Workshop on Artificial Neural Networks in Pattern Recognition - ANNPR 2018, 90-101

Technical Reports

2017 F. Giannini, V. Laveglia, A. Rossi, D. Zanca, A. Zugarini

Neural Networks for Beginners. A fast implementation in Matlab, Torch, TensorFlow

arXiv preprint arXiv:1703.05298

2016 V. Cicaloni, A. Zugarini, A. Rossi, M. Zazzeri, A. Santucci, A. Bernini, O. Spiga

Towards an integrated interactive database for the search of stratification biomarkers

in Alkaptonuria

PeerJ Preprints

Attended Conferences and Workshops

Sep. 2020 TAILOR Workshop, ECAI 2020

Online

Sep. 2019 International Conference on Artificial Neural Networks - ICANN,

Munich (Greece)

Jun. 2019 Summer School on Optimization, Big Data and Applications - OBA,

Veroli (Italy)

Jul. 2019 ACDL Satellite Workshop on Graph Neural Networks,

Siena (Italy)

Sep. 2018 IAPR Workshop on Artificial Neural Networks in Pattern Recognition - ANNPR,

Siena (Italy)

Peer-Reviewer

Journals

IEEE Transactions on Neural Networks and Learning Systems - TNNLS

Neural Processing Letters - NEPL

Annals of Mathematics and Artificial Intelligence - AMAI

Conferences

International Conference on Artificial Neural Networks - ICANN 2020

Grants and Awards

- Three years Ph.D. Scholarship at Smart Computing, University of Florence, Italy
- Neural Nets for Conversational Agents, DIISM one year scholarship, funded by CogniTalk
- Mediaset Infinity Hackathon, Web Marketing Festival, Jun. 2018 Rimini (Italy), member of the winning team
- SoBigData Soccer Data Challenge, Oct. 2018 Pisa (Italy), member of the winning team
- Winner of the student merit award of Computer and Automation Engineering M.S., academic year 2015–2016, Università degli Studi di Siena

Internships

May - Aug 2020 Applied Science Intern, Amazon Alexa, Turin, Italy

Jun. - Oct. 2017 Internship as software engineer, QuestIT S.r.l. (SI) ITALY,

Backend developer of chatbots applications.

May 2016 - Apr. 2017 DIISM Siena

I won a research fellowship at Computer and Automation Engineering Faculty

funded by CogniTalk a French startup seated in Nantes.

Jun. - Dec. 2014 Internship at Frosini Pietre S.r.l.

Web developer.

Technical skills

Operating Systems

Languages

Development Env. Machine Learning

Misc

Operating Systems: Windows (all versions), Linux (mainly Ubuntu) Python, Java, C++, MySQL, Javascript, PHP, HTML5, CSS3, MEX, Lua

Pycharm, Eclipse, NetBeans

Tensorflow, Pytorch, Torch, Pandas

Wordpress, Git

Languages

Italian (mother tongue) English (proficient)

B2 English eligibility obtained during the M.S.