Curriculum Vitae et Studiorum
Valentina Franzoni

Valentina Franzoni, nata a ███████████████████████, ha conseguito il dottorato di ricerca in Ingegneria Informatica presso l'Università La Sapienza di Roma e lavora come senior postdoc fellow e presso l'Università di Perugia, Italia, dove partecipa a progetti multidisciplinari e guida un team di ricerca sull'Emotion Recognition nel Knowledge and Information Technology Lab (KITlab) ed è nel corso del varo di uno spin-off universitario nel campo dell'Artificial Intelligence (AI) e Affective Computing con particolare attenzione alle applicazioni etiche human-centered. Docente alla Hong Kong Baptist University di Hong Kong dei corsi su E-Business Technology e Electronic Transformation in Business per il Department of Computer Science con agreement dal 2021 al 2023, collabora anche con l'Università Eurasiatica del Kazakistan come advisor di due Ph.D. candidates. Ha collaborato con la Hong Kong Baptist University come coordinatrice del programma di scambio estivo HKBU-Unipg dal 2012 al 2017, come senior visiting research assistant nel 2012 e nel 2016. Ha organizzato numerose conferenze e workshop dal 2013 sull'IA, in particolare sull'affective computing (ACER-EMORE), l'intelligenza artificiale (IWCES, WCES, ICAPS) le tecnologie avanzate per l'e-learning (AAILT). È stata relatrice e keynote speaker in numerosi eventi nazionali e internazionali, talvolta con riconoscimenti e interviste da parte di TV, giornali e radio locali. È stata guest editor di diversi numeri speciali su AI, Affective Computing, ed Etica in AI. È revisore per diverse riviste scientifiche. È membro di diverse associazioni internazionali per la scienza e membro senior dell'IEEE.

Ha esperienza di ricerca e pubblicazioni su amministrazione e gestione di piattaforme e tecnologie di supporto alla formazione a distanza (piattaforme E-studium e Unistudium per l'Università di Perugia, piattaforma e-learning Moodle per la Comunità Magnificat Onlus), Learning Management Systems (progettazione e didattica del sistema e-learning FLOSS del liceo IPSIA Cavour-Marconi, docenza per strategie avanzate di e-learning su LMS per Erasmus+, ricerca e docenza per la formazione dei docenti dell'Università di Perugia su LMS Unistudium), Progettazione e realizzazione di sistemi di intelligenza artificiale per il machine learning (3 anni di borse di ricerca su tecniche avanzate per l'e-learning con particolare attenzione all'accessibilità e usabilità, e sulle tecnologie interattive). È autrice di pubblicazioni in informatica, e-learning e AI: 63 articoli scientifici indicizzati in riviste e atti di conferenze internazionali e un capitolo di libro, altri in arrivo. Le sue pubblicazioni hanno ottenuto H-index 18 (fonte Scopus, 7 febbraio 2022). È anche autrice di numerosi rapporti tecnici e di un capitolo in un libro di testo educativo.

Le piace lavorare su e-learning, SNA e reti complesse, prossimità semantica e strutturale, deep learning, con una passione per le applicazioni etiche. Cerca di lavorare in un team bilanciando lavoro autonomo e vita sana.

Informazioni dettagliate possono essere trovate nel seguente CV.

Summary

1)   Personal data, Education and Specialisations, Foreign languages

A. Personal data

Name/Surname   VALENTINA FRANZONI

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Personal telephone   ███████████████████

e-mail   ████████████████████

orcid.org/0000-0002-2972-7188;
www.researchgate.net/profile/Valentina_Franzoni

B. Education and Specialisations

B1.Main titles

Ph.D. in Engineering in Computer Science with a final **Excellent** evaluation at Università La Sapienza of Rome, Italy with the doctoral thesis in ***Artificial Intelligence and Knowledge Management***: "*A unifiying approach to Semantic and Topological Similarity in Information Networks*", under supervision of Professors Marco Schaerf and Daniele Nardi at the Department of Computer, Control and Management Engineering, in collaboration with Perugia University.

2-years Master degree in Computer Science *(class 23/S, LM/18)*, with honors **(110/110 cum laude)**, with an average of 29.8/30 (of which 53% cum laude), Department of Mathematics and Computer Science, University of Perugia, Italy, with a specialization on ***Informatics security***. Final experimental thesis on "*Semantic Proximity Measures for the Web*", supervisor Prof. Alfredo Milani, defended on 24 May 2012.

Bachelor degree in Computer Science *(class 26)*, Department of Mathematics and Computer Science, University of Perugia, Italy, with a specialization in ***Computer Networks***. Final experimental thesis on "*Web usability on the Nintendo Wii Platform*", supervisor Prof. Osvaldo Gervasi.

Liberal Studies Diploma, Liceo Classico "Annibale Mariotti" school in Perugia, Italy.

B2. Other Educational Activities, Academic and Post-lauream level

5-9 June 2017, Participation in **Summer School: "Open Science Cloud"**, at the Physics Department of the University of Perugia, organised by Unipg and INFN (National Institute of Nuclear Physics).

31 July-4 August 2015, Participation in **Summer School: "Reasoning Web"**, at the University of Berlin, organised by RRA (international association Web Reasoning and Rule Systems).

21-28 June 2015, Participation in **Summer School: "1st IEEE Italy Section Summer School"**, at the Engineering Department of the University of Perugia, organised by IEEE (international association Electrical and Electronic Engineers) Italy section.

29 July-30 August 2013, Participation in **Summer School: "Interuniversitary Mathematics School SMI"**, at the Department of Mathematics and Computer Science of the University of Perugia. Course "Mathematical Statistics", held by Prof. Eugenio Regazzini, University of Pavia and Dr. Ph.D. Emanuele Dolera, University of Modena and Reggio Emilia.

4-7 June 2013, Participation in **Summer School: "ICAPS Summer School on Planning and Scheduling"**, on the occasion of the 24th International Conference on Automated Planning and Scheduling, Rome, Italy, 10-14 June, 2013.

B3. Academic education, optional extracurricular teachings with exam, cross-ethics knowledge, in addition to the degree-courses curriculum:

" Dogmatic Theology: Sacraments", (6 credits), Theological Institute of Assisi (A.Y. 2021-2022)

"Theology of the body ", (6 credits), Theological Institute of Assisi (A.Y. 2021-2022)

 "History of Modern Philosophy", (6 credits), Theological Institute of Assisi (A.Y. 2020-2021)

"History of Ancient and Medioeval Philosophy", (6 credits), Theological Institute of Assisi (A.Y. 2020-2021)

"Literature of Saint Paul", (6 credits), Theological Institute of Assisi (A.Y. 2020-2021)

"Pathrology", (6 credits), Theological Institute of Assisi (A.Y. 2019-2020)

"Dogmatic Theology: Christology", (6 credits), Theological Institute of Assisi (A.Y. 2019-2020)

"Ancient testament exegesis", (6 credits), Theological Institute of Assisi (A.Y. 2018-2019)

"Didactics of Mathematics", (6 credits), University of Perugia (A.Y. 2010-2011)

"General Psychology" (12 credits), La Sapienza University of Rome (A.Y. 1997-1998)

"Sociology" (6 credits), University of Perugia, (A.Y. 1996-1997)

"Cultural Anthropology" (6 credits), University of Perugia, (A.Y.1996-1997)

B4. Professional educational activities

2009-2010, **Information/training course on the risks associated with experimental, research and educational work activities**, aimed at safety and health protection.

2007-2008, Participation in **internship activities on "Web Services"** at the computer services company Catnic s.r.l. (Terni, Italy).

1999, **Professional training course for "Agency worker for the provision of temporary work"**, lasting 600 hours, in the framework of the European community initiative "Employment and enhancement of human resources - Integra", financed by the Ministry of Labour and Social Security and the European Social Fund, organised by the professional association Forma.azione of Perugia.

1999, 200-hour **internship at Obiettivo Lavoro s.c.r.l.**, Perugia branch, in the human resources sector, **with personnel selection tasks**.

Foreign languages

(*)	Comprehension		Spoken		Written
	Listening	*Reading*	*Interaction*	*Production*	*Written Production*
ENGLISH ***(Cambridge)***	C2– Proficiency	C2 - Proficiency	C2 - Proficiency		C2 - Proficiency
SPANISH ***(autodidact)***	Medium	Medium	Medium	Elementary	Elementary
CHINESE ***(HSK)***	3 - base	3 - base	---	---	3 - base

(*) Assessment level according to the Common European Framework of Reference for Languages

C2 level: Proficiency/Advanced for English language certified by passing the University English language exams (eligibility) in 2002 and the English for Management exam (with 30/30 marks) in 2011, according to the Cambridge scheme.

Certificate for the Chinese language (Mandarin) issued by the University Language Centre (CLA) of the University of Perugia according to the HSK scheme.

2) Detailed Scientific Research, Didactics and Publications Activities

A. *Scholarships and research grants for study and research activities*

Research grant at the Department of Mathematics and Computer Science, University of Perugia, funding from the PRIN (Projects of National Interest) "PHRAME" project, Grant n.20178XXKFY, 2020-2021

Research grant at the Department of Mathematics and Computer Science, University of Perugia, funding from the PRIN (Projects of National Interest) "PHRAME" project, Grant n.20178XXKFY, 2019-2020

Research grant at the Department of Mathematics and Computer Science, University of Perugia, academic funding on e-learning funds, for research on innovative didactics and analysis of results on the Unistudium platform "UniStudium Project: a platform for e-learning in the University of Perugia", 2018-2019

Scholarship of the International Association Web Reasoning and Rule Systems (RRA) for participation in the RR Conference and the RW School, Berlin 2015

Research Fellowship of the University of Perugia, Department of Mathematics and Computer Science, aimed at the project Semantic Annotation for Collaborative Multimedia, Perugia 2014

Scholarship funded by Artificial Intelligence Journal for participation in ICAPS Summer School, Perugia 2013

Italian Artificial Intelligence Association (AI*IA) **scholarship** for participation in ICAPS Conference, Rome 2013

Research grant at Spinoff Esebel c/o Department of Mathematics and Computer Science, University of Perugia, funding "Por Umbria FSE 2007-2013", project "QRLearn: models and technologies for e-learning from innovative mobile devices through the use of QR codes", Umbria Region, 2013.

Research grant at the Department of Mathematics and Computer Science, University of Perugia, funding "Por Umbria FSE 2007-2013", project "iLearn: usability metrics and development protocols for e-learning on innovative mobile devices", Umbria Region, 2011-2012.

Scholarship for merit for enrolment in the course of Psychology at the University La Sapienza of Rome funded by the academic Entity for the Right to Study, Rome, 1996

B. *Research activities with Italian and foreign public and private subjects*

B.1 Research activities at Italian institutions

2020-2022

Member of the inter-university research group between University of Perugia, La Sapienza University of Rome, University of Perugia, Grant n.20178XXKFY ("PHRAME - Phraseological Complexity Measures in learner Italian. Integrating eye-tracking, computational and learner corpus methods to develop second language pedagogical resources"), Italian Ministry of University, Education, Scientific Research, Research Project of National Interest (PRIN), Budget Fund for UnipPG euro 135.000, approved in 2019.

2011-2020

Member of the KITLAB Knowledge Information Technology Lab research group of the Department of Mathematics and Computer Science, University of Perugia, for research on data mining and Semantic Extraction Models for Collaborative Multimedia Repositories, in collaboration with the research group of Prof. Clement Leung of Hong Kong Baptist University.

Scientific supervisors: Prof. Alfredo Milani, Prof. Clement Leung

2013-2014

QRLearn **research project**: *models and technologies for e-learning from innovative mobile devices through the use of QR codes*, for the company Esebel s.r.l., funded by research grant from the Umbria Region with the European fund PorUmbria FSE, with KITLAB Knowledge Information Technology Lab

Scientific supervisor: Prof. Stefano Marcugini

Summary: *The objective of the QRLearn project was to exploit the technology of QR codes to provide additional content of different types within e-learning projects and interface design, with a high level of usability on all new mobile platforms, allowing not only to facilitate the design and development of new e-learning services on innovative mobile devices (DMI), but also to adapt existing e-learning services to new devices, without the need to invest in the development of ad hoc applications and thus providing additional economic advantages and possibilities for technological development and knowledge use. The QRLearn project makes it possible to exploit mobile learning services for a variety and breadth of users that have so far been cut off from technological gaps, in particular for usability issues related to the quantity of content and its dispersion in small layouts such as those that can be displayed on DMI displays, but also from the point of view of the Internet of Things (IoT, Internet of Things) and augmented reality (AR, Augmented Reality).*

2011-2012

iLearn **research project**: *usability metrics and development protocols for e-learning on innovative mobile devices*, financed by research grant from the Umbria Region with the European fund PorUmbria FSE. KITLAB Knowledge Information Technology Lab research group of the Department of Mathematics and Informatics of the University of Perugia.

Scientific supervisor: Prof. Alfredo Milani

Summary: *The iLearn project had the general purpose and the final result to define and test design methods for innovative mobile device interfaces (IMD) oriented to e-learning services, to ensure a high level of usability and accessibility even with the specific targeting and interaction modes of the new devices (e.g., smartphones, tablets, game consoles). To this end, guidelines have been defined and an app has been created based on them, on which usability tests have been conducted.*

B.2 Research activities at foreign institutions

2012-2013

Collaboration with the research group ***Advanced Search Models for Internet Media Resources*** of the Department of Computer Science, Hong Kong Baptist University, Hong Kong (China), coordinated by Prof. Clement Leung

Visiting Senior Research Assistant contract at the Hong Kong Baptist University, Department of Computer Science, in the project *Semantic Image Retrieval. (October-Dec 2012)*

Research Project: Semantic Image Retrieval
Supervisor: Prof.Clement Leung

Summary: *In this research, we focus on the semantic annotation technique based on the use of image parametric dimensions and metadata. In addition, we concentrate on ontology-based image retrieval, including ontology-based Tree Expansion and Contextual Feature-based Index Expansion. Furthermore, we investigate the use of Query-by-Example Disambiguation by establishing a concept dictionary and develop weighting algorithms for effective ranking of search results.*

C.   *Didactics activity*

C1. Professorship, Lectures, Seminars and Tutorials held in University Courses

Academic Year (AA.YY.) 2021/22-2022/3

Lecturer for the *E-Business* Technology, and *Electronic Transformation in Business* course for BsC and MSc courses, at the Computer Science department of Hong Kong Baptist University, Hong Kong (China), online lectures for Covid-19.

Academic Years (A.Y.) 2019-2020, 2020-2021

Lecturer for the *Affective Computing and Emotion Recognition* course for the XXXV Ph.D. course in Mathematics, Computer Science, Statistics [DOT13Y5H4B] of the University of Florence in consortium with the University of Perugia and INDAM-Istituto Nazionale di Alta Matematica "F. Severi" Rome, online lectures for Covid-19.

A.Y. 2019-2020

Adjunct Professor, course of *Operating Systems and Laboratory* for the three-year degree course in Computer Science, at the Department of Mathematics and Computer Science of the University of Perugia (and online for Covid-19).

A.Y. 2018-2019

 Trainer of professors at the University of Perugia for the PRO3 Project for the *innovation of university didactics*, action B2 which foresees design, implementation, teaching, distribution and assistance for an advanced course

in e-learning and laboratory blended learning with the help of innovative teaching techniques (collaborative learning and flipped lessons) for the advanced use of the Unistudium university platform, based on Moodle.

A.Y. 2016-2017

Teaching Assistant for the Computer Science course for the three-year course *Biomedical Laboratory Techniques*, lectures held at the Department of Mathematics and Computer Science of the University of Perugia (with Prof. Simonetta Pallottelli). Seminar on computer and user security and exercises on spreadsheets and study of real time data of the Umbria 2016 earthquake.

A.Y. 2011-2012

Adjunct Professor for the course of *Standards in Security Assessment*, 1-year Master in Information and Communication Security Systems and Technologies (Director Prof. Giulianella Coletti).

Adjunct Professor for the course *Case studies: assessment for information security and countermeasure planning*, 1-year Master in Information and Communication Security Systems and Technologies (Director Prof. Giulianella Coletti), Department of Mathematics and Computer Science, University of Perugia.

A.Y. 2010-2011

Tutoring contract for the course *Laboratory of Computer Science*, for the triennal courses of Foreign Languages and Cultures and Applied Linguistic Mediation, LIFU (Laboratory of Computer Science Faculty of Humanities) Faculty of Letters and Philosophy, University of Perugia. 100 hours.

A.Y. 2009-2010

Tutoring contract for the course *Laboratory of Computer Science*, for the triennal courses of Foreign Languages and Cultures and Applied Linguistic Mediation, LIFU (Laboratory of Computer Science Faculty of Humanities) Faculty of Letters and Philosophy, University of Perugia. 50 hours.

A.Y. 2008-2009

Teaching assistant for the course of Multimedia Systems, CdL Informatica triennale, at the Department of Mathematics and Computer Science of the University of Perugia. Lessons on Adobe Flash, planning and evaluation of exam projects at the end of the course, with Prof. Simonetta Pallottelli.

A.Y. 2011-2019, Invited seminars in university courses held by Prof. Alfredo Milani:

Seminars and teaching assistance for the course of *Artificial Intelligence*, 2-years Master degree in Computer Science, at the Department of Mathematics and Informatics of the University of Perugia

Seminars and teaching assistance for the *Software Engineering* course, 3-years Bachelor degree in Computer Science, at the Department of Mathematics and Computer Science of the University of Perugia

Seminars and teaching assistance for the course of *Computer Architecture*, 3-years Bachelor degree in Computer Science, at the Department of Mathematics and Computer Science of the University of Perugia

Seminars and teaching assistance for the course of *Security Design and Management with Laboratory,* 2-years Master degree in Computer Science, at the Department of Mathematics and Computer Science of the University of Perugia

C2. Graduate and PhD thesis co-rapporteur and supervisor

(Department of Mathematics and Computer Science of the University of Perugia)

- Scientific advisor to Zhanerke Musekenova – first-year doctoral student in 2020 of the L. N. Gumilyov Eurasian national University in the educational program «8D06102- Computer science» as part of the joint training of doctoral students with B. Razakhova, associate professor, candidate of technical Sciences on "Models and methods of an intelligent document management system for a given subject area"
- Scientific advisor to Gaukhar Baltabayeva – first-year doctoral student in 2020 of the L. N. Gumilyov Eurasian national University in the educational program «8D06102- Computer science» as part of the joint training of doctoral students with B. Razakhova, associate professor, candidate of technical Sciences on "Development of algorithms for recognizing abnormal human behavior for an intelligent video surveillance system "
- Giulio Biondi, *Evolutive Meta-Correlations Strategies for Topological Measures for Link Prediction*, XXXV Doctorate in Mathematics, Computer Science, Statistics [DOT13Y5H4B], to be defended in 2021
  co-rapporteur: Prof. Alfredo Milani
- Andrea Migni, *Intelligent search on repository of didactic-scientific material, through metadata derived from semi-automatic cataloguing,* 2-years Master degree in Computer Science (May 2019)
  co-rapporteur: Prof. Sergio Tasso
- Giulio Biondi, *Towards a Unified Model for Semantic and Topological Proximity in the Link Prediction Domain*, 2-years Master degree in Computer Science, (April 2017).
  co-rapporteur: Prof. Alfredo Milani
- Gianluca Curto, *Randomized Walk Generation Strategies for Recommendation Systems*, 2-years Master degree in Computer Science (July 2016).
  co-rapporteur: Prof. Alfredo Milani
- Paolo Mengoni, *Semantic Proximity Measures for Heuristic Research in Collaborative Networks*. 2-years Master degree in Computer Science (February 2014).
  co-rapporteur: Prof. Alfredo Milani
- Marco Mencacci, *Randomized paths in Collaborative Networks*. 2-years Master degree in Computer Science (February 2014).
  co-rapporteur: Prof. Alfredo Milani
- Fabrizio Piccinato, *Visual interfaces for monitoring e-learning platforms*. 3-years Bachelor degree in Computer Science (May 2014).
  co-rapporteur: Prof. Alfredo Milani
- Fabiana Zollo, *Automated Classification on the book social network Zazie*, 2-years Master degree in Computer Science (May 2013).
  co-rapporteur: Prof. Valentina Poggioni
- Sabrina Manni, *Information Security in Cloud Computing*, 3-years Bachelor degree in Computer Science (May 2013).
  co-rapporteur: Prof. Valentina Poggioni

C3. Workgroups Supervision

2017-2019, international working group organizer on Affective Computing Emotion Recognition.

June-July 2016, supervisor of the general coordination for the educational exchange programme "HKBU-UNIPG Exchange Programme 2016" within University of Perugia and Hong Baptist University

June-July 2014, internship working groups of the "HKBU-UNIPG Exchange Programme 2014" within University of Perugia and Hong Baptist University, general coordinator of:

- the internship workshops of the University of Perugia:
  - Department of Mathematics and Computer Science, supervisor Prof. A. Milani
  - Physics Department, Computer Science Laboratory, supervisor Dr. M. Mariotti
  - Law Department, Computer Science Laboratory, supervisor Dr. L. Mattioli
  - International Relations Department, supervisor Dr. S. De Gennaro
  - Department of Experimental Medicine for Prevention, supervisor Dr.ssa L.Minelli
  - Department of Internal Medicine, Umbrian Cancer Registry, supervisor Prof. F. Stracci
- laboratories outside the University of Perugia:
  - Province of Perugia, E-Government Information System Service, supervisor Ing. A. Ortali
  - Buitoni House, Nestlé Research and Development, supervisor Dr. S. Pucci
  - Davebe, Information Architect, supervisor Dr. D. Berti
  - TeamDev company, supervisor Mr A. Cruciani
  - Jstudios company, supervisor Dr. E. Piselli

June-July 2013, internship working groups of the "HKBU-UNIPG Exchange Programme 2013" within University of Perugia and Hong Baptist University, at the internship workshops of the University of Perugia:

- supervisor of the internship working group for the "Moodle Extension" project (Department of Mathematics and Computer Science)
- supervisor of the "Android QR" project internship working group (Department of Mathematics and Computer Science)

June-July 2012, internship working groups of the "HKBU-UNIPG Exchange Programme 2013" within University of Perugia and Hong Baptist University, at the internship workshops of the University of Perugia:

- supervisor of the internship working group of the "DMI" project (Department of Mathematics and Computer Science)

- supervisor of the "Rabbit" project internship working group (Department of Mathematics and Computer Science), supervisor Dr. Michele Lepri

C4. Invited speaker in university courses, summer schools, academic and cultural events

SPEECHES AT ACADEMICAL AND CULTURAL LEVEL

- Seminar "*PMING: A Semantic Proximity Distance For The Web*", Hong Kong Baptist University, Computer Science Department, Hong Kong, 20 November 2012

- Keynote speaker on "*Affective Computing in Artificial Intelligence*" at the international workshop on Affective Computing and Emotion Recognition co-located with the Web Intelligence 2017 conference, Lipsia, 23 August 2017

- Invited speaker on: *"Emotion Recognition in Artificial Intelligence"* at the WiMLDS (Women in Machine Learning and Data Science) Milan & Paris online international meetup, 4 June 2020

- Invited speaker on: "*Knowledge, coding and Robotics"* at the Love Film Festival, in occasion of the presentation of the sci-fi book named: Ulisse Missione Robot, with the participation of University of Perugia, Perugia, 4 May 2016

- Invited speaker on: "*Knowledge, coding and Robotics*" organized by LibreItalia and Unipg; in the Week of Pink Rose (Settimana del Rosa Digitale) at Department of Mathematics and Computer Science University of Perugia, Perugia, 9 March 2016

SEMINARS IN SUMMER SCHOOLS

- Seminar on: "*Open Cloud: an open source solution for computer security in cloud computing*" as part of the "Cloud Computing" seminar cycle for the international "Exchange Programme 2012" within University of Perugia and Hong Kong Baptist University, Department of Mathematics and Computer Science of the University of Perugia, 23 July 2012.

- Seminar on "*Social Network And Data Analisys*" as part of the " *Advanced Digital Communication* " seminar cycle for the international "Exchange Programme 2012" within University of Perugia and Hong Kong Baptist University, Department of Mathematics and Computer Science of the University of Perugia, 22 July 2013

- Seminar on "*Web Usability in Mobile Computing*" (con Yuanxi Li, Hong Baptist Univ.) as part of the "*Mobile Computing*" seminar cycle for the international "Exchange Programme 2013" within University of Perugia and Hong Kong Baptist University, Department of Mathematics and Computer Science of the University of Perugia, 22 July 2013

- Seminar on *"Open Cloud"* as part of the "*Cloud Computing*" seminar cycle for the international "Exchange Programme 2013 within University of Perugia and Hong Kong Baptist University, Department of Mathematics and Computer Science of the University of Perugia, 23 July 2013

- Seminar on "*Social and Information Networks*" as part of the "*Social Computing*" seminar cycle for the international "Exchange Programme 2014" within University of Perugia and Hong Kong Baptist University, Department of Mathematics and Computer Science of the University of Perugia, 29 July 2014

- Seminar on "*Web Usability in Mobile Computing*" as part of the "*Social Computing*" seminar cycle for the international"Exchange Programme 2014" within University of Perugia and Hong Kong Baptist University, Department of Mathematics and Computer Science of the University of Perugia, 21 July 2014

- Seminar on *"Social Computing in Scientific Research"*, as part of the "*Mobile Computing*" seminar cycle for the international "Exchange Programme 2015" within University of Perugia and Hong Kong Baptist University, Department of Mathematics and Computer Science of the University of Perugia, 10 July 2015

- Invited speaker at the HKBU-Unipg Exchange Programme 2016, summer school organised within Hong Kong Baptist University (HK, China) and University of Perugia (Italy), seminar on: *Web Usability and Accessibility*, Department of Mathematics and Computer Science of the University of Perugia, 25 July 2016

- Invited speaker at the HKBU-Unipg Exchange Programme 2016, summer school organised within Hong Kong Baptist University (HK, China) and University of Perugia (Italy), seminar on: *Social Network Analysis, Metrics and Methods*, Department of Mathematics and Computer Science of the University of Perugia, 8 July 2016

- Introductory seminar on "*Emotion Recognition in Artificial Intelligence*" as part of the "*Cyber-emotions*" seminar cycle for the international exchange programme, HKBU-Unipg Exchange Programme 2017, summer school organised within Hong Kong Baptist University (HK, China) and University of Perugia (Italy), Department of Mathematics and Computer Science of the University of Perugia, 26 June 2017

- Seminar on "*Web-based Semantic Emotion Recognition*" as part of the "*Cyber-emotions*" seminar cycle for the international exchange programme, HKBU-Unipg Exchange Programme 2017, summer school organised within Hong Kong Baptist University (HK, China) and University of Perugia (Italy), Department of Mathematics and Computer Science of the University of Perugia , 14 July 2017

- Seminar on "Usability in Web and Mobile Computing" as part of the seminar cycle for the international exchange programme HKBU-Unipg Exchange Programme 2018, summer school organised within Hong

Kong Baptist University (HK, China) and University of Perugia (Italy), Department of Mathematics and Computer Science of the University of Perugia , 28 June 2018

- Seminar on "Achievements and Challenges in Artificial Intelligence as part of the seminar cycle for the international exchange programme HKBU-Unipg Exchange Programme 2018, summer school organised within Hong Kong Baptist University (HK, China) and University of Perugia (Italy), Department of Mathematics and Computer Science of the University of Perugia , 9 July 2018

- Seminar on "Emotions and Artificial Intelligence: achievements and challenges" as part of the seminar cycle for the international exchange programme HKBU-Unipg Exchange Programme 2019, summer school organised within Hong Kong Baptist University (HK, China) and University of Perugia (Italy), Department of Mathematics and Computer Science of the University of Perugia, 19 July 2019

SEMINARS WITHIN DEGREE COURSES

- "*Research strategies with heuristics*" for the course of Artificial Intelligence of the 2-years Master degree in Computer Science, Department of Mathematics and Computer Science of the University of Perugia, 2013

- "*Optimal decisions in game theory*" for the course of Artificial Intelligence of the 2-years Master degree in Computer Science, Department of Mathematics and Computer Science of the University of Perugia, 2013

- "*Common Criteria for Information Technology Security Evaluation*" for the course of Information Security Planning and Evaluation of the 2-years Master degree in Computer Science, Department of Mathematics and Computer Science of the University of Perugia, 2013 and 2014

- "*XSS reflected e DOM attacks*" for the course of Information Security Planning and Evaluation of the 2-years Master degree in Computer Science, Department of Mathematics and Computer Science of the University of Perugia, 2013 and 2014

- "*Design pattern and problem solving*" for the course of Software Engineering of the 2-years Master degree in Computer Science, Department of Mathematics and Computer Science of the University of Perugia, 2014

- Seminar on "*paradigms for Access Control*", for the course of Information Security for the 2-years Master degree in Computer Science, Department of Mathematics and Computer Science of the University of Perugia, 2014

- "*A Delegation-based Cooperative Robotic Framework*", as a student for the Ph.D. course of AI and Robotics for Interactive decision making and learning in human-centered systems, Department of Computer, Control and Management Engineering, University La Sapienza of Rome, 12 June 2015

- "*Joint Link Prediction and Attribute Inference Using Social-Attribute Network*" Department of Electronic and Telecommunications Engineering, University La Sapienza di Roma, as a student for the Ph.D. course of Fundamentals of Scientific and Technological Knowledge, 19 Giugno 2015

- "*Entity Resolution Methods For Affiliation Disambiguation*", University La Sapienza di Roma, as a student for the Ph.D. course of di Bibliometrics As A Big Data Science, Department of Computer, Control and Management Engineering, 22 Ottobre 2015

- "*Models of Structural and Semantic Proximity in Information Networks*" University La Sapienza di Roma, final year seminar for the Ph.D. course in Engineering in Computer Science, Department of Computer, Control and Management Engineering, 22 Oct 2015

- *"Tutorial: Neo4j for SNA, just another tutorial using a scientific biography"*, University La Sapienza di Roma, as a student for the Ph.D. course of di Big Data Mangement, 22 Oct 2015

- *"Structural and Semantic Proximity in Information Networks"*, University La Sapienza di Roma, final year seminar for the Ph.D. course in Engineering in Computer Science, Department of Computer, Control and Management Engineering, University La Sapienza of Rome, 21 Oct 2016

- Seminar on *"IT and user security"* for the course of Informatics and Statistics of the 3-years Bachelor degree in Biomedical Laboratory Technique, Department of Biology of the University of Perugia, 28 November 2016

- Seminar on "*Social Computing in Scientific Research*", for the course of Artificial Intelligence for the 2-years Master degree in Computer Science, Department of Mathematics and Computer Science of the University of Perugia, 6 May 2016, and 11 May 2017

- Seminar on "*Social Network Analysis*", for the course of Artificial Intelligence for the 2-years Master degree in Computer Science, Department of Mathematics and Computer Science of the University of Perugia, 13 May 2016, and 18 May 2017

- Seminar on "*Context Extraction by Multi-path Traces in Semantic Networks*", for the course of Artificial Intelligence for the 2-years Master degree in Computer Science, Department of Mathematics and Computer Science of the University of Perugia, 13 May 2016, and 18 May 2017

- Seminar on *"Link prediction in complex networks"*, for the course of Artificial Intelligence of the 2-years Master degree in Computer Science, Department of Mathematics and Computer Science of the University of Perugia, 25 May 2017

- Seminar on "*Web and Mobile Usability*" for the course of Software Engineering of the 3-years Bachelor degree in Computer Science, Department of Mathematics and Computer Science of the University of Perugia, 29 May 2018

C5. Other training and teaching activities in the professional, school and technology transfer fields

2019-2020

- **Teacher** of *Computer Science* (A041). Economy and Technology Institute "Aldo Capitini", Perugia.

2019

- **Teacher** of *Sistems and Networks* (A041). Technique and Technology Institute "Leonardo Da Vinci", Foligno.

2018

- **Expert teacher** for international English language training course DARE! On e-learning and blended learning techniques and technologies on Moodle platform for the training of personnel participating in HORIZON2020 projects for Esebel s.r.l. aimed at French trainers of trainers. 2017

- **Expert teacher** for the short course on Moodle for the training of personnel participating in HORIZON2020 projects for the training school Infolog s.r.l. 2016

- **Expert teacher** for the international English language training course *Building Intelligent Interactive Tutors: Adult trainee-centered strategies for lifelong e-learning.* Erasmus+ KA1 for adult education staff mobility 2014-1-EL01-KA104-00125 with ESEBEL s.r.l. for Greek teachers.

School Year (S.Y.) 2010-2011

- **Expert teacher** for the Computer Science course of the Professional Institute for Industry and Crafts "Cavour-Marconi", Piscille (Pg), biological specialisation, with funds from the Competence Centre for Open Source of the Umbria Region. Fundamentals of computer science and computer security, laboratory with installation and use of Free Liber Open Source Software in GNU/Linux environment.

- **Seminar** "*Doing Mathematics with Free Libre Open Source Software*" at the conference "IPSIA FLOSS 2011". Professional Institute for Industry and Crafts "Cavour-Marconi", Piscille (Pg)

- **Seminar** "FLOSS software on the GNU/Linux platform" at the conference "IPSIA FLOSS 2011 X2", Professional Institute for Industry and Crafts "Cavour-Marconi", Olmo (Pg)

S.Y. 2009-2010

- **Expert teacher** for the optional Informatics course, Professional Institute for Industry and Crafts "Cavour-Marconi" of Piscille (Pg), biological specialisation. Fundamentals of computer science and computer security, laboratory with installation and use of Microsoft Office and Open Office in Windows and GNU/Linux environment.

- **Expert teacher** for the extracurricular course in Computer Science, at the Liceo Classico "Annibale Mariotti" in Perugia for liberal studies, with funds from the Competence Centre for Open Source of the Umbria Region. Recovery of the computer science laboratory with the installation and setup of Free Liber Open Source Software operating systems and applications in GNU/Linux environment, lessons of computer science fundamentals and laboratory with the use of FLOSS applications.

S.Y. 2008-2009

- **Expert teacher** for the optional Informatics course, Professional Institute for Industry and Crafts "Cavour-Marconi" of Piscille (Pg), biological specialisation. Fundamentals of computer science and computer security, laboratory with installation and use of Microsoft Office and Open Office in Windows and GNU/Linux environment.

- **Seminar** "*GNU/Linux and Free Libre Open Source Software*" at the conference "IPSIA FLOSS 2009". Professional Institute for Industry and Crafts "Cavour-Marconi", Piscille (Pg)

2008

- **Professional consultant** and text writer **for e-learning training courses** on Open Office for the computer services company Catnic s.r.l. (Tr).

S.Y. 2000-2001

- Assistant to the Regional Training and Reporting Manager Dr. Patrizia Iorio. **Training of tutors** (external) **and teachers** (internal) in schools for the IG Students Foundation, headquarters of the Umbria Region (Pg).

S.Y. 1999-2000

- **Tutor** of IG Students, "Skyshine" project at the Technical Commercial Institute "Vittorio Emanuele II" (Pg). Tutoring for a group of students coming from mixed classes, for a total of about 100 hours of training meetings, as part of the project of the Umbria Region with EC European funds IG Students Foundation.

D. Coordination of educational and scientific initiatives carried out at national and international level

D.1 Coordination of initiatives in the educational and scientific field at international level

Guest editor for the research topic ***Ethical Design of Artificial Intelligence-based Systems for Decision Making*** of the *Frontiers in Artificial Intelligence* international journal, Frontiers, open for manuscript submissions.

Member of the Program Committee at **IEEE Intelligent and Security Informatics** (ISI 2021) international conference, upcoming, Virtual Event *(online for Covid'19 pandemics)*

Member of the Program Committee at **IEEE Intelligent and Security Informatics** (ISI 2020) international conference, November 9-10, 2020, Virtual Event *(online for Covid'19 pandemics)*

Scientific Chair for the 6th international **Workshop on Affective Computing and Emotion Recognition EMORE 2021**, held in conjunction with IEEE/WIC/ACM WI 2021, December 14-17, 2021, Melbourne, Australia *(online for Covid'19 pandemics)*

Scientific Chair for the 6th international **Workshop on Emotion Recognition EMORE 2021**, held in conjunction with BI 2021, September 17-19, Padova, Italy *(online for Covid'19 pandemics)*

Scientific Chair for the 5th international **Workshop on Affective Computing and Emotion Recognition ACER-EMORE 2020**, held in conjunction with ICCSA 2020, July 1-4, Cagliari, Italy *(online for Covid'19 pandemics)*

Scientific Chair for the 2nd international **Workshop on Advances in Artificial Intelligence Learning Technologies AAILT 2020**, held in conjunction with ICCSA 2020, July 1-4, Cagliari, Italy *(online for Covid'19 pandemics)*

Guest editor for the Special Issue ***Evolutionary Algorithms in Artificial Intelligent Systems*** of the *Mathematics* international journal, MDPI, 2021

Guest editor for the Special Issue ***Advances in Artificial Intelligence Learning Technologies*** of the *Applied Sciences* international journal, MDPI, 2021

Guest editor for the Special Issue ***Multimodal Emotion Recognition in Artificial Intelligence*** of the *Sensors* international journal, MDPI, 2021

Guest editor for the Special Issue ***Emotional Machines: The Next Revolution*** Volume 17, Number 1, 2019 of the *Web Intelligence* international journal, iOS Press

Scientific Chair for the 4th international **Workshop on Affective Computing and Emotion Recognition ACER-EMORE 2019**, held in conjunction with IEEE/WIC/ACM WI 2017, 14-17 October 2019, Thessaloniki, Greece

Member of the Program Committee at the international **Workshop on Socio-Affective Technologies SAT19**, held in conjunction with IEEE International Conference on System Man and Cybernetics, IEEE SCM, 6-9 October 2019, Bari, Italy

Member of the Program Committee for the International Conference on Computer Science and Its Applications ICCSA 2019, July 1-4, 2019, Saint Petersburg, Russia

Scientific Chair for the 3rd international **Workshop on Affective Computing and Emotion Recognition ACER-EMORE 2019**, held in conjunction with ICCSA 2019, July 1-4, 2019, Saint Petersburg, Russia

Scientific Chair for the 8th international **Workshop on Web-based Collective Evolutionary Systems: models, measures, applications IWCES 2019**, in conjunction with ICCSA 2019, July 1-4, 2019, Saint Petersburg, Russia

Scientific Chair for the 7th international **Workshop on Web-based Collective Evolutionary Systems: models, measures, applications IWCES 2018**, held in conjunction with ICCSA 2018, July 2-5, 2018, Melbourne, Australia

Scientific Chair for the 2nd international **Workshop on Emotion Recognition EMORE 2018**, held in conjunction with ICCSA 2018, July 2-5, 2018, Melbourne, Australia

Scientific Chair for the international **Workshop on Affective Computing and Emotion Recognition ACER 2017**, held in conjunction with IEEE/WIC/ACM WI 2017, August 23, 2017, University of Liepzig, Germany

June 2017-now, *Coordination* of the International Interuniversity **Workgroup on Emotion Recognition**

Scientific Chair for the international **Workshop on Emotion Recognition EMORE 2017**, held in conjunction with ICCSA 2017, July 3, 2017, University of Trieste, Italy
(Awarded for outstanding contribution).

Scientific Chair for the international **6th Workshop on Web-based Collective Evolutionary Systems: models, measures, applications IWCES 2017**, held in conjunction with ICCSA 2017, July 3, 2017, University of Trieste, Italy
(Awarded for outstanding contribution).

Member of the Program Committee at **IEEE Intelligent and Security Informatics** (ISI 2017) international interdisciplinary conference, for the theme "Security and Big Data", July 22-24, 2017, Beijing, China

Scientific Chair for the international **5th Workshop on Web-based Collective Evolutionary Systems: models, measures, applications WCES 2016**, held in conjunction with ICCSA 2016, July 4-7, 2016, Beijing, China
(Workshop Awarded for scientific contribution to the conference).

26 June – 26 July 2017, Perugia, Italy. Scientific supervisor of the seminar cycle "Cyber-Emotions" in the Summer Exchange Programme 2017 within the University of Perugia and the Hong Kong Baptist University, Computer Science Departments. *Member of the International Organizing Committee. Scientific supervisor for the seminar series.*

15 June – 15 August 2016, Perugia, Italy. "*Exchange Programme 2016*" within the University of Perugia and the Hong Kong Baptist University, Computer Science Departments on Mobile Computing. *Member of the International Organizing Committee. Supervisor for the local scientific coordination (Awarded for excellent contribution).*

15 June – 15 August 2015, Perugia, Italy. "*Exchange Programme 2015*" within the University of Perugia and the Hong Kong Baptist University, Computer Science Departments on Mobile Computing. *Deputy Coordinator and Member of the International Organizing Committee.*

15 June – 15 August 2014, Perugia, Italy. "*Exchange Programme 2014*" within the University of Perugia and the Hong Kong Baptist University, Computer Science Departments on Mobile Computing.
Deputy Coordinator and Member of the International Organizing Committee. (Awarded for outstanding contribution).

15 June – 15 August 2013, Perugia, Italy. "*Exchange Programme 2013*" within the University of Perugia and the Hong Kong Baptist University, Computer Science Departments on Mobile Computing.
Coordinator of the International Organizing Committee.
(Awarded for outstanding contribution).

4 June -7 June 2013, Perugia. Italy, *ICAPS International Summer School on Automated Planning and Scheduling*, Department of Mathematics and Computer Science, University of Perugia.
   Member of the Organizing Committee.

15 June 2012-30 July 2012, Perugia. "*Exchange Programme 2012*" within the University of Perugia and the Hong Kong Baptist University, Computer Science Departments on Cloud Computing.
   Member of the Organizing Committee.

D.2 Coordination of educational and scientific initiatives at national level

2001-2022, Comunità Magnificat ONLUS, Italy.
Scientific and technical administration of the website and of the Magnificat.edu e-learning platform.

2016-2022, Perugia university, Department of Mathematics and Computer Science.
Scientific and technical administration of the Unistudium e-learning platform of University of Perugia, Italy.

14 July 2017, Perugia university, Department of Mathematics and Computer Science. Workday on Emotion Recognition.
   Organiser.
23-24 May 2013, Perugia.
AUH! 2013, Android University Hackathon, national Hackathon of public Italian Universities, organised with the support of Google Italia,
   Coordinator of the Organisation Committee for Perugia University (winner of the 3rd national prize).

2005-2015, Perugia university, Department of Mathematics and Computer Science.
Scientific and technical administration of the E-Studium e-learning platform of University of Perugia, Italy.

October 2013, Todi.
Appy Days 2013 Festival, ***coordinator*** of the **workstand of mobile robotics -*Guarda che RobApp!-** organised with the Department of Mathematics and Computer Science, Perugia University, KITlab research group

7 May 2013, Perugia
Web services on Android, a coding day organised at the Mathematics and Computer Science Department of the University of Perugia, held by Dr. Emanuele Palazzetti of Google Developer Group Pg.
   Organiser.

27 February 2013, Perugia
Android by Night, Hands on Code on the RESTful web API, organized by Google Developer Group Perugia, sponsored by the Tinker Garage association and hosted by Python User Group Perugia.
   Organiser.

14 June 2011, Perugia.
   "IPSIA FLOSS x2" **Conference** on GNU/Linux and the Free Libre Open Source software, in collaboration with the Linux User Group of Perugia and with the Department of Mathematics and Computer Science, Perugia University, at the Professional Institute of Industry and Crafts "Cavour-Marconi" (Olmo, Pg). Project with funds from the Competence Centre for Open Source of the Umbria Region.
   Coordinator of the Organisation Committee.

June 2011, Perugia.
"IPSIA FLOSS" **Conference** on GNU/Linux and the Free Libre Open Source software, in collaboration with the Linux User Group of Perugia and with the Department of Mathematics and Computer Science, Perugia University, at the Professional Institute of Industry and Crafts "Cavour-Marconi" (Piscille, Pg). Project with funds from the Competence Centre for Open Source of the Umbria Region.
Coordinator of the Organisation Committee.

June 2009, Perugia.
"LINUX 2009" **Conference** on GNU/Linux and the Free Libre Open Source software, in collaboration with the Linux User Group of Perugia, at the Professional Institute of Industry and Crafts "Cavour-Marconi" (Piscille, Pg). Project with funds from the Competence Centre for Open Source of the Umbria Region.
Coordinator of the Organisation Committee.

E. Participation and Communications at Conferences, Seminars and Seminar Cycles Workdays

E1. Other Participation and Speeches at International Meetings and Conferences

- **ICCSA-2008**, International Conference "Computational Science and Its Applications, Perugia, 30th June-3th July 2008. *Paper presentation: "Web Usability on the Nintendo Wii platform".*

- **WIC IEEE/WI/IAT 2012**, Web Intelligence Conference 2012, Macau SAR, 4-7 December 2012. *Paper presentation: "PMING Distance: a Collaborative Semantic Proximity Measure".*

- **ICAPS-2013**，23rd ICAPS International Conference on Automated Planning and Scheduling, Rome, Italy, 10-14 June, 2013. *Conference participation.*

- **IIR 2014**, Italian Information Retrieval Workshop, Rome, Italy, 20-21 January, 2014. *Paper presentation: "Can we infer book classification by blurbs?".*

- **ESSEM 2014**, Emotion and Sentiment in Social and Expressive Media: approaches and perspectives from AI, International workshop in the Italian Association for Artificial Intelligence Conference, 3-6 December, 2013. *Paper presentation: "Automated Classification of Book Blurbs According to the Emotional Tags of the Social Network Zazie".*

- Artificial Intelligence for Society and Economy, XIII **AI*IA** Symposium on Artificial Intelligence (Pisa, 10-12 December **2014**). *Conference participation.*

- **IEEE Italy Section Summer School**, Perugia 25 June **2015**. *Conference participation.*

- 11th Reasoning Web Summer School. Berlin, Germany from July 31 - August 4, **RW 2015**. *Presentation of the poster: Semantic Extraction Models for Multimedia*

- 9th International Conference on Web Reasoning and Rule Systems (**RR 2015**). Berlin, Germany August 4-6, 2015. Doctoral consortium, *presentation of the paper: Context Extraction by Multi-path Traces in Semantic Networks*

- Exhibit di **Mobile Robotics Workshop** in occasion of the visit of the Vice President of the Senate of the Republic, Senator L. Lanzillotta, at the Knowledge and Information Technology Lab, Department of Mathematics and Computer Sciene, 2015

- **Worskshop MOOCs as a resource for academic didactics**, Perugia University, 11 November 2015. *Conference participation.*

E2. Participation in National Conferences and Scientific Dissemination Events

- 2 February 2022 invited speaker on "Ethics and bias in AI" for the project "NERD, not for women?" hosted by IBM online with Italian universities.

- 24 September 2021 presentation of the projects "Emotion Recognition in Artificial Intelligence" at the Department of Mathematics and Computer Science, University of Perugia, European event Sharper Night - The Researchers' Night, Perugia

- 27 September 2019 presentation of the projects "Automated recognition of emotions" and "Collective intelligence" at the Department of Mathematics and Computer Science, University of Perugia, European event Sharper Night - The Researchers' Night, Perugia

- 14 June 2018, University of Perugia, working day on Project PRO3: Towards innovation in university didactics

- 29 September 2017 interview on Radiophonica radio programme "Sharing Researchers' Passions for Engagement and Responsibility" for European event Sharper Night - The Researchers' Night, Perugia

- 29 June 2017 interview on TV program of the series "University Special'" on TEF channel held by Cristina Castellano, to present the cycle of seminars Cyber-emotion and the project of robotics and AI gAItano.

- 2014-2016, Perugia. International Journalism Festival, "Press" access for the Facebook Blog "DMI Unipg Alumni".

- 30/3-4/4/2014, Perugia. School Of Data, Open Knowledge Foundation, as part of the International Journalism Festival 201424/4/2010, Perugia. Congress "Umbria Region towards digital terrestrial" (Association Electrotechnics and Electronics Italy, AEIT – National Convention UNAE), with the participation of the University of Perugia. *Registered participant.*

- 9-10/5/2009, Assisi. XX National Congress of the Association of Professional Computer Scientists (AIP) and Italian Computer Society (ITCS) on "Web 3.0, Innovation and collaboration". *Registered participant.*

- 18/9/2009, Perugia. Congress "FLOSS In Feast", organized by CCOS Umbria Region. *Registered participant.*

E3. Participation to online courses and seminars

University of Illinois at Urbana-Champaign Coursera MOOC (4 weeks, certificate earned on 16 June 2016), *3D Printing Applications*. Prof. John Doe. This course provides a broad introduction to machine learning, datamining, and statistical pattern recognition.

University of Illinois at Urbana-Champaign Coursera MOOC (2 weeks, certificate earned on 20 May 2016), *The 3D Printing Revolution*. Prof. John Doe. This course demonstrates how 3D printers work, show what people make with them, and examine the 3D printing ecosystem.

University Autonoma of Barcelona Coursera MOOC (6 weeks, certificate earned on 17 July 2015), *Emotions: a Philosophical Introduction*. Prof. jordi Vallverdú. The course tries to elucidate the controversial nature of emotions and their evolutionary meaning (*accomplished with distinction*).

Duke University Coursera MOOC (7 weeks, certificate earned on 29 April 2014), *A beginner's guide to Irrational Behaviour*. Prof. Dan Ariely. Behavioral economics is the study of humans and their (occasionally irrational) interactions with the world.

Stanford University Coursera MOOC (11 weeks, certificate earned on 17 December 2014), *Machine Learning*. Prof. Andrew Ng. This course provides a broad introduction to machine learning, datamining, and statistical pattern recognition.

University of Edimburgh Coursera MOOC (5 weeks, certificate earned on 4 March 2014), *Artificial Intelligence Planning*. Proff. Gerard Wickler and Austin Tate. The course provided a foundation in artificial intelligence techniques for planning, with an overview of the wide spectrum of different problems and approaches, including their underlying theory and their applications (*accomplished with distinction*).

La Stampa and Google, La Stampa Academy, Data Journalism, Visual Journalism, 16 dic 2103-28 feb 2014

IEEE, Image Sensor for Mobile Devices:Next Generation Pixel Technology, 1 Professional Development Hour, 11 Feb 2014

IEEE, Delivering Full-Featured Mobile Experiences on Mid-Range Devices,1 Professional Development Hours, 13 Jul 2013

IEEE, Seeing is Believing: Develop High-Performance Machine Vision Systems Faster than the Blink of an Eye, 1 Professional Development Hours, 30 Jan 2013

Duke University Coursera MOOC (12 weeks, 2013), *Think Again: How to Reason and Argue*. Prof. W. Sinnott-Armstrong, Prof. Ram Neta (*accomplished with distinction*). This course teaches students how to analyse and reconstruct arguments, how to assess arguments for deductive validity and inductive strength, and how to avoid common fallacies.

University of Michigan Coursera MOOC (9 weeks, 2013), *Social Network Analysis*. Prof. L. Adamic. This course covers the theory and application of network analysis across a range of domains.

University of Maryland Coursera MOOC (7 weeks, 2013), *Developing Innovative Ideas for New Companies: The First Step in Entrepreneurship*. Dr. J. V. Green (*accomplished with distinction*). This course explores how to identify and evaluate opportunities. based on real customer needs, develop solid business models, and create successful companies.

Stanford University Coursera MOOC (7 weeks, 2014) *Social and Economic Networks: Models and Analysis*. Prof. M. O. Jackson. This graduate-level course introduces students to a variety of models and techniques for analysing social and economic networks, including random graph models, statistical models, and game theoretic models of network formation, diffusion, learning, and peer effects.

Commonwealth Education Trust Coursera MOOC (4 weeks, 2013), *Foundations of Teaching for Learning 1: Introduction*. Prof. J. MacBeath (*accomplished with distinction*).

University of Michigan Coursera MOOC (9 weeks, 2014), *Internet History, Technology, and Security*. Prof. C. Severance. *(accomplished with distinction)*

University of Minnesota Coursera MOOC (10 weeks, 2013-2014), *Interprofessional Healthcare Informatics*. Prof. K. Monsen. This course is to: describe the role of standards in electronic health records; analyze benefits and issues related to electronic health records; relate informatics to evidence-based practice, decision support, and quality improvement; describe e-Science and new research enabled by big data; describe ethical implications of interprofessional healthcare informatics.

F.   *General Publications list*

F1. Scientific Publications

Baia, A.E., Biondi, G., Franzoni, V., Milani, A., Poggioni, V., "Lie to Me: Shield Your Emotions from Prying Software". Sensors, 2022, 22(3), 967 (Journal) **https://doi.org/10.3390/s22030967**

Franzoni, V., Di Marco, N., Biondi, G., Milani, A., "How Virtual Reality Influenced Emotional Well-being Worldwide During theCovid-19 Pandemics". WI-IAT '21 Companion: IEEE/WIC/ACM International Conference on Web Intelligence Proceedings (Conference, in press)

Franzoni, V., Baia, A.E., Biondi, G., Milani, A., "Producing Artificial Male Voices with Maternal Features for Relaxation". WI-IAT '21 Companion: IEEE/WIC/ACM International Conference on Web Intelligence Proceedings (Conference, in press)

Milani, A., Franzoni, V., Biondi, G., "Parsing Tools for Italian Phraseological Units". Lecture Notes in Computer Science, 2021, 12955 LNAI, pp. 427-435 (Conference)

Franzoni, V., Kozak, Y., "Yeasts Automated Classification with Extremely Randomized Forests". Lecture Notes in Computer Science, 2021, 12955 LNAI, pp. 436–447 (Conference)

Franzoni, V., Di Marco, N., Biondi, G., Milani, A., "Virtual Reality for Enhancement of Emotional Mindset in the First Lockdown of United Kingdom for the Covid-19 Pandemics". Lecture Notes in Computer Science, 2021, 12960 LNAI, pp. 189–198 (Conference)

Franzoni, V., Milani, A., Mengoni, P., Piccinato, F. , "Artificial intelligence visual metaphors in e-learning interfaces for learning analytics". Applied Sciences (Switzerland), 2020, 10(20), pp. 1–25, 7195 (Journal)

Biondi, G., Franzoni, V., "Discovering correlation indices for link prediction using differential evolution". Mathematics, 2020, 8(11), pp. 1–10, 2097 (Journal)

Franzoni V., Biondi G., Perri D., Gervasi O., "Enhancing mouth-based emotion recognition using transfer learning". Sensors (Switzerland), V.20, pp.1-15, MDPI AG (2020), DOI:10.3390/s20185222 (Journal)

Franzoni V., Biondi G., Milani A., "Emotional sounds of crowds: spectrogram-based analysis using deep learning". Multimedia Tools and Applications, V., pp.-, Springer (2020), DOI:10.1007/s11042-020-09428-x (Journal)

Franzoni, V., Biondi. G., Milani, A., "Exploring negative Emotions to Preserve Social Distancing. Computational Science and Its Applications". Lecture Notes in Computer Science, V.12250 LNCS, pp.562-573, Springer (2020), DOI: 10.1007/978-3-030-58802-1_40 (Conference)

Biondi. G., Franzoni, V., "Semantic Similarity Measures for Topological Link Prediction Semantic Similarity Measures for Topological Link Prediction". Lecture Notes in Computer Science, V.12253 LNCS, pp.132-142, Springer (2020), DOI:10.1007/978-3-030-58814-4_10 (Conference)

Franzoni V., Pallottelli S., Milani A., "Reshaping Higher Education with e-Studium, a 10-Years Capstone in Academic Computing". Lecture Notes in Computer Science, V.12250 LNCS, pp.293-303, Springer (2020), DOI:10.1007/978-3-030-58802-1_22 (Conference)

Vallverdù J., Franzoni V., Milani A., "Errors, biases and overconfidence in artificial emotional modeling". Proceedings - 2019 IEEE/WIC/ACM International Conference on Web Intelligence Workshops, WI 2019 Companion, V., pp.86-90, Association for Computing Machinery, Inc (2019), DOI:10.1145/3358695.3361749 (Conference)

Franzoni V., Milani A., Biondi G., Micheli F., "A preliminary work on dog emotion recognition". Proceedings - 2019 IEEE/WIC/ACM International Conference on Web Intelligence Workshops, WI 2019 Companion, V., pp.91-96, Association for Computing Machinery, Inc (2019), DOI:10.1145/3358695.3361750 (Conference)

Milani A., Franzoni V., Biondi G., Li Y., "Integrating Binary Similarity Measures in the Link Prediction Task". Proceedings - 2018 11th International Congress on Image and Signal Processing, BioMedical Engineering and Informatics, CISP-BMEI 2018, V., pp.-, Institute of Electrical and Electronics Engineers Inc. (2019), DOI:10.1109/CISP-BMEI.2018.8633089 (Conference)

Franzoni V., Milani A., "Emotion Recognition for Self-aid in Addiction Treatment, Psychotherapy, and Nonviolent Communication". Lecture Notes in Computer Science, V.11620 LNCS, pp.391-404, Springer Verlag (2019), DOI:10.1007/978-3-030-24296-1_32 (Conference)

Franzoni V., Biondi G., Milani A., "Crowd emotional sounds: Spectrogram-based analysis using convolutional neural networks". CEUR Workshop Proceedings, V.2474, pp.32-36, CEUR-WS (2019), DOI: (Conference)

Franzoni V., Li Y., Milani A., "Set Semantic Similarity for Image Prosthetic Knowledge Exchange". Lecture Notes in Computer Science, V.11624 LNCS, pp.513-525, Springer Verlag (2019), DOI:10.1007/978-3-030-24311-1_37 (Conference)

Franzoni V., Tasso S., Pallottelli S., Perri D., "Sharing Linkable Learning Objects with the Use of Metadata and a Taxonomy Assistant for Categorization". Lecture Notes in Computer Science, V.11620 LNCS, pp.336-348, Springer Verlag (2019), DOI:10.1007/978-3-030-24296-1_28 (Conference)

Biondi G., Franzoni V., Gervasi O., Perri D., "An Approach for Improving Automatic Mouth Emotion Recognition". Lecture Notes in Computer Science, V.11619 LNCS, pp.649-664, Springer Verlag (2019), DOI:10.1007/978-3-030-24289-3_48 (Conference)

Gervasi O., Franzoni V., Riganelli M., Tasso S., "Automating facial emotion recognition". Web Intelligence, V.17, pp.17-27, IOS Press (2019), DOI:10.3233/WEB-190397 (Journal)

Franzoni V., Milani A., Nardi D., Vallverdú J., "Emotional machines: The next revolution". Web Intelligence, V.17, pp.1-7, IOS Press (2019), DOI:10.3233/WEB-190395 (Review)

Tasso S., Pallottelli S., Gervasi O., Sabbatini F., Franzoni V., Laganà A., "Cloud and Local Servers for a Federation of Molecular Science Learning Object Repositories". Lecture Notes in Computer Science, V.11624 LNCS, pp.359-373, Springer Verlag (2019), DOI:10.1007/978-3-030-24311-1_26 (Conference)

Franzoni V., Lepri M., Milani A., "Topological and Semantic Graph-based Author Disambiguation on DBLP Data in Neo4j". CoRR abs/1901.08977 (2019) (arXiv)

Franzoni V., Mengoni P., Milani A., "Dimensional morphing interface for dynamic learning evaluation". Information Visualisation - Biomedical Visualization, Visualisation on Built and Rural Environments and Geometric Modelling and Imaging, IV 2018, V., pp.332-337, Institute of Electrical and Electronics Engineers Inc. (2018), DOI:10.1109/iV.2018.00063 (Conference)

Milani A., Franzoni V., "Soft behaviour modelling of user communities". (2018) JOURNAL OF THEORETICAL AND APPLIED INFORMATION TECHNOLOGY, vol. 96, p. 217-226, ISSN: 1992-8645

Chan S.W., Franzoni V., Mengoni P., Milani A., "Context-Based Image Semantic Similarity for Prosthetic Knowledge". Proceedings - 2018 1st IEEE International Conference on Artificial Intelligence and Knowledge Engineering, AIKE 2018, V., pp.254-258, Institute of Electrical and Electronics Engineers Inc. (2018), DOI:10.1109/AIKE.2018.00057 (Conference)

Franzoni V., Lepri M., Li Y., Milani A., "Efficient Graph-Based Author Disambiguation by Topological Similarity in DBLP". Proceedings - 2018 1st IEEE International Conference on Artificial Intelligence and Knowledge Engineering, AIKE 2018, V., pp.239-243, Institute of Electrical and Electronics Engineers Inc. (2018), DOI:10.1109/AIKE.2018.00054 (Conference)

Mudgal R.K., Niyogi R., Milani A., Franzoni V., "Analysis of tweets to find the basis of popularity based on events semantic similarity". International Journal of Web Information Systems, V.14, pp.438-452, Emerald Group Publishing Ltd. (2018), DOI:10.1108/IJWIS-11-2017-0080 (Journal)

Franzoni V., "Autonomous hexapod robot with artificial vision and remote control by myo-electric gestures: The innovative implementation tale of gAItano". Cyber-Physical Systems for Next-Generation Networks, V., pp.143-162, IGI Global (2018), DOI:10.4018/978-1-5225-5510-0.ch007 (Book Chapter)

Milani A., Franzoni V., "Soft behaviour modelling of user communities". Journal of Theoretical and Applied Information Technology, V.96, pp.217-226, Asian Research Publishing Network (2018), DOI: (Journal)

Milani A., Rajdeep N., Mangal N., Mudgal R.K., Franzoni V., "Sentiment extraction and classification for the analysis of users' interest in tweets". International Journal of Web Information Systems, V.14, pp.29-40, Emerald Group Publishing Ltd. (2018), DOI:10.1108/IJWIS-12-2016-0069 (Journal)

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Franzoni V., Milani A., Pallottelli S., Leung C.H.C., Li Y., "Context-based image semantic similarity". 2015 12th International Conference on Fuzzy Systems and Knowledge Discovery, FSKD 2015, V., pp.1280-1284, Institute of Electrical and Electronics Engineers Inc. (2016), DOI:10.1109/FSKD.2015.7382127 (Conference)

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Chiancone A., Franzoni V., Niyogi R., Milani A., "Improving Link Ranking Quality by Quasi-Common Neighbourhood". Proceedings - 15th International Conference on Computational Science and Its Applications, ICCSA 2015, V., pp.21-26, Institute of Electrical and Electronics Engineers Inc. (2015), DOI:10.1109/ICCSA.2015.19 (Conference)

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Franzoni V., Mencacci M., Mengoni P., Milani A., "Semantic heuristic search in collaborative networks: Measures and contexts". Proceedings - 2014 IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology - Workshops, WI-IAT 2014, V.1, pp.141-148, Institute of Electrical and Electronics Engineers Inc. (2014), DOI:10.1109/WI-IAT.2014.27 (Conference)

Franzoni V., Milani A., "Heuristic semantic walk for concept chaining in collaborative networks". International Journal of Web Information Systems, V.10, pp.85-103, Emerald Group Publishing Ltd. (2014), DOI:10.1108/IJWIS-11-2013-0031 (Journal)

Franzoni V., Poggioni V., Zollo F., "Can we infer book classification by blurbs?". CEUR Workshop Proceedings, V.1127, pp.16-19, CEUR-WS (2014), DOI: (Conference)

Franzoni V., Mencacci M., Mengoni P., Milani A., "Heuristics for semantic path search in Wikipedia". Lecture Notes in Computer Science, V.8584 LNCS, pp.327-340, Springer Verlag (2014), DOI:10.1007/978-3-319-09153-2_25 (Conference)

Franzoni V., Milani A., "Heuristic semantic walk: Browsing a collaborative network with a search engine-based heuristic". Lecture Notes in Computer Science, V.7974 LNCS, pp.643-656, Springer (2013), DOI:10.1007/978-3-642-39649-6-46 (Conference)

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Franzoni V., Poggioni V., Zollo F., "Automated classification of book blurbs according to the emotional tags of the social network Zazie". CEUR Workshop Proceedings, V.1096, pp.83-94, CEUR-WS (2013), DOI: (Conference)

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Franzoni V., Gervasi O., Tasso S., Pallottelli S., "Web usability on the Nintendo Wii platform". Lecture Notes in Computer Science, V.5073 LNCS, pp.105-118, Springer (2008), DOI:10.1007/978-3-540-69848-7_10 (Conference)

F2. Educational and dissemination publications

V. FRANZONI, Tecnologie dell'informazione (Information Technologies), in Note di Informatica Umanistica (Notes on Computing for Humanities), II edition curated by F. Lorenzi, A. Milani, cap X pp 281-ss, Ed. Sapar, Perugia (2011). ISBN:978 88 96245-40-8

V. FRANZONI, Creare un Web service con Java, Tomcat e SOAP (Creating a Web service with Java, Tomcat and SOAP). Edited by HTML.IT. published:07/28/2008 >15000 views. http://www.html.it/autore/franzoni

F3. Technical Reports

2011-2012, For the research project "*iLearn: usability metrics and developing protocols for e-learning on innovative mobile devices*" funded by Umbria region:

- Technical Report R1: *Definition of accessibility and usability, description of the relevant standards for the project*

- Technical Report R2: *Study of the state of the art of Innovative Mobile Devices (IMD) and description of relevant standards*

- Technical Report R3: *Analysis of potential users of e-learning on IMD*

- Technical Report R4: *Identification of guidelines that solve problems of usability and accessibility on IMD*

- Technical Report R6: *Usability test of the iLearn application on IMD*

2013-2014, For the research project "*QRLearn: models and technologies for e-learning on innovative mobile devices with the use of QR codes*" funded by Umbria region:

- Technical Report R1: *Definition of accessibility and usability, description of the relevant QR standards for the project*

- Technical Report R2: *Study of the state of the art of Innovative Mobile Devices in the QR area and description of relevant standards*

- Technical Report R3: *Architecture of the designed system, requirements and users*

- Technical Report R4: *Installation Manual of the system environment and definition of test devices*

- Technical Report R5: *Production of a web service and an executable test application with the use of QR codes.*

- Technical Report R6: *Final results of usability tests on the implemented software.*

2) Other professional work experiences

2010-2011, Professional sector: Publishing - Information Technology

Blogger and article writer for HTML.IT s.r.l., Viale Franco Angeli 5 -00155 Rome: Blogger on news and tricks of Windows Vista and Windows 7 operating systems, for the blog www.onevista.it;

Popular articles/howto on web services with Java-Tomcat-SOAP on www.html.it

2005-2007, Professional sector: Goldsmithing - Information Technology

Organization and development of digital inventory, for Jewellery Laboratorio Orafo Moreno Tini (Pg)

2005-2006, Professional sector: Construction - Technical feasibility reports

Delegated technician and Special Prosecutor on the province of Pg for inspections for building tenders and technical feasibility reports, for the Studio Indaco company of Ferrarese Sara (Aq)

2001, Professional sector: Non-profit - Information Technology

Volunteer Manager for Computer Office: IT technical assistance, network system integrator, IT consultant, at ICCRS International Office, Palazzo della Cancelleria, Vatican City

1999-2001, Professional sector: Information Technology

IT consultant: Technical assistance, web editor, data entry, secretarial management for H24 s.r.l. (Diocesan IT Service, c/o Vescovado, Piazza IV Novembre (Pg)

1998, Professional sector: Safety in the workplace

Administrative secretariat at the company of Nino Marzano (Pg), operating in the field of risk analysis according to Law 626/94 (safety in the workplace) and quality certification.

1998-1999, Professional sector: Non-profit - Information Technology

Organisation and execution of data collection for earthquake-stricken buildings: Organisation in assembly of the data collection of the buildings affected by the earthquake of Umbria-Marche in 1997, for the service Cooperative "La Terra Invisibile" and data entry in ad hoc database at the Municipality of Foligno (Pg).

1998-2007, Professional sector: Didactics and Information Technology

Computer technician and home consulting: Installation and setup of systems and software, hardware updates and private computer literacy lessons. Design, development and management of websites for private individuals.

3) Awards and Acknowledgements

Sponsorship of the ACER2021 workshop (1000 USD) by the journal Frontiers in Artificial Intelligence.

IEEE senior member, recognized in 2021.

Best paper, "Semantic Similarity Measures for Topological Link Prediction", International Conference of Computer Science and Its Applications ICCSA 2020, 1-4 July 2020, Cagliari, Italy

Leadership certificate for outstanding contribution to the 19th International Conference on Computational Science and Applications (ICCSA 2019) and its associated workshops (ACER-EMORE and IWCES), held in Saint Petersburg, Russia on July 1-5, 2019.

Certificate for workshop organizers at Affective Computing and Emotion Recognition (ACER) in IEEE/WIC/ACM WI 2017, Leipzig University

Appreciation thanks certificate for giving the seminars on "Emotions in Artificial Intelligence (Perugia, 26 June 2015)" and "Web-based Semantic Emotion Recognition" (Perugia, 14 July 2017) in the seminar series on Cyber-emotions at HKBU-UNIPG International Summer Exchange Programme 2017

Leadership certificate for outstanding contribution to the 17th International Conference on Computational Science and Applications (ICCSA 2017) and its associated workshops (EMORE and IWCES), held in Trieste, Italy on July 3 - 6, 2017.

Achievement of being the most cited researcher on Researchgate of DIAG Sapienza in June and July 2017:

https://www.researchgate.net/profile/Valentina_Franzoni/achievement/598021154ea0acbed68989b6
https://www.researchgate.net/profile/Valentina_Franzoni/achievement/59a8fa68f9845b6f664dd65f

(Three-times) Researcher of the day on (24 April 2017, 25 May 2017, 20 June 2017) on the web page of the Association for Advancement of Affective Computing (AAAC) http://emotion-research.net

Award for Excellent 5-years contribution to Coordination of the HKBU-UNIPG International Exchange Programme 2012-2016 within University of Perugia and Hong Kong Baptist University. Received in 2016.

FSE Awards 2014, III prize awarding researchers in the cathegory "Young researchers and mobility". Umbria region, for the research project Por Umbria FSE " *iLearn: usability metrics and developing protocols for e-learning on innovative mobile devices*".

Award for Outstanding Coordination HKBU-UNIPG International Exchange Programme 2014 within University of Perugia and hong Kong Baptist University.

Award for Outstanding Coordination, HKBU-UNIPG International Exchange Programme 2013 within University of Perugia and Hong Kong Baptist University

PageRank Competition (25-27 Oct 2013), during MOC on "Social Network Analysis" by Prof. Lada Adamic, University of Michigan: II place

I authorize the communication and storage of the personal data included in this CV according to the law in force (Dlgs. 196/2003 and modifications, L. 27 dicembre 2019, n. 160, D.L. 14 giugno 2019, n. 53, D.M. 15 marzo 2019, D. L. 10 agosto 2018, n. 101).

Dichiaro rispondenti a verità le dichiarazioni contenute in questo curriculum, ai sensi degli artt. 46 e 47 del D.P.R. 445/2000.

Perugia, 5 Maggio 2022

SIGNATURE