



UNIVERSITÀ DI PISA
DIPARTIMENTO DI INGEGNERIA DELL'INFORMAZIONE
Dottorato di Ricerca in Ingegneria dell'Informazione

Doctoral Course

“Ethics of Information and Communication Technologies”

Prof. Andrea Tomasi

Dipartimento di Ingegneria dell'Informazione – Università di Pisa

Short Abstract: After an introduction to the main concept about ethics, related to norms, both in deontological and in behavioural meaning. Then ethical questions are shown in using techniques, interacting with technologies and living in a technological environments.

Some particular aspects of applied ethics in the field of ICT are discussed, focusing on the most relevant topics and approaches in contemporary debate.

Course Contents in brief:

- Hints on philosophical and anthropological references
- Responsibility and technological determinism.
- Digital divide, multiculturalism and contemporary ethical debates
- Privacy, security and democracy.
- EU Rules for a trustworthy A.I.

Total # of hours of lecture: 16

References:

- [1] Fabris A. Ethics of Information and Communication Technology, Springer, 2018.
 - [2] Floridi L. The ethics of information, Oxford UP, 2013.
 - [3] Zuboff S. The age of Surveillance capitalism. Public Affairs, 2019.
 - [4] A. Fussi, G. Scarafile, A. Tomasi. Etica, emozioni, intelligenza artificiale. ETS 2021
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CV of the Teacher

Andrea Tomasi is Associate Professor since 1987 and since 1991 is at Dipartimento di Ingegneria dell'Informazione, Università di Pisa. He taught various courses in computer architecture,

distributed systems, programming, information systems, Web Information Systems and Web design, GIS, and more recently informatics for humanistic disciplines.

On the same topics he developed his research activities.

2012 – today Member of the Board of Weca, Associazione Web Cattolici Italiani;

2003 – 2011 Director of the Unit of Pisa of the C.I.N.I. (Consortium of Italian University for Informatics activities)

2003 – 2011 Responsible for the University of Pisa of EUCIP Certification.

2006 – 2010 President of the Board of Equitalia Lucca e Cremona (company of Agenzia delle Entrate and INPS for tax collection)

TECHNICAL SKILLS AND COMPETENCES

2020-2021 Referee for the evaluation of training projects supporting innovation, by appointment of FONDIMPRESA;

2017-2020 Referee for the evaluation of innovative start-up by appointment of Regione Campania.

2015-2018 Referee for the evaluation of training projects supporting innovation, by appointment of FONDIMPRESA;

2004-2005 Team Leader in the Project “CERERE, an Information System for Traceability in Agro-Food Supply Chain”, supported by a grant of Cassa di Risparmio di Pisa.

2003-2004 Responsible on commitment of C.I.N.I. for the Feasibility Study of the Portal for Cultural Heritage and Tourism in the Sardinia Region (the study was funded by the Italian Prime Minister Office).

2003-2004 Responsible of an Operating Unit in the Project “Openlab, a network of partners developing services and products based on Open Source Software”, supported by Regione Toscana.

2001 – 2004 Director of the Project “ECUMENE: information systems and web tools for the Cultural Heritage of Catholic Church in Italy”, funded by the Parnaso Program of the MURST, Italian Ministry of University, Scientific Research and Technology. The project result has led to the publication of the site of the "Virtual Museum" BEWEB (www.beweb.it)

2002 Reviewer on commitment of C.I.N.I. for the selection of the E-government projects funded by Innovation Ministry.

2001 Team Leader for the auditing of the Information System at the Provincia di Bologna.

The recent publications of interest for the proposed doctoral course are the following:

A. Tomasi. Umanesimo tecnologico: una necessità per l'uomo d'oggi. PARADOXA, luglio/settembre 2022, pp. 27-38.

- A. Tomasi. Umanesimo tecnologico e recupero del sacro di fronte al postumanesimo digitale. XXII Congresso Internazionale AIEMPR. Roma, 26-31 luglio 2022.
- A. Tomasi. Umanesimo tecnologico: una antropologia per il futuro dell'uomo. La visione profetica di Romano Guardini. Alpha Omega, v. 22, n.1, 2019, pp. 161-190.
- A. Tomasi Reale e virtuale. Un mutamento antropologico. http://www.paoline.org/wp-content/uploads/2018/10/ITA-PaolineOnline57_AgostoOttobre_2018.pdf
- A. Tomasi Reale e virtuale. Tecnologia informatica e cultura digitale. Convegno Sefir "La realta' supera la fantasia - scienziati, filosofi e teologi a confronto". Maggio 2018 (Atti in corso di pubblicazione)
- A. Fabris, A. Tomasi. Più robot, più responsabilità. Avvenire, 5 ottobre 2017.
- A. Tomasi Tecnologie digitali: problemi educativi. <http://www.weca.it/news/editoriali/tecnologie-digitali-problemi-educativi/> 24 gennaio 2017
- A. Tomasi. Tecnologie Digitali e Cultura della Globalizzazione. In: Processi di mondializzazione: opportunita' per i cattolici italiani, EDB 2013.
- A. Tomasi. Comunicare ed educare: la "generazione digitale". In: L'emergenza educativa: persona, intelligenza, liberta', amore, EDB, 2010.
- A. Tomasi. Le sfide della tecnologia. In: Cattolicesimo italiano e futuro del paese, EDB, 2006.
- A. Tomasi. Informatica. Tecnologia e cultura per il futuro dell'uomo. Rivista Il Margine, anno IV, n. 8, ottobre 1984. pp. 32-43

Room and Schedule

Room: *Aula Riunioni del Dipartimento di Ingegneria dell'Informazione, Via G. Caruso 16, Pisa – Ground Floor*

Schedule according with the Academic calendar and the rules of execution of lessons.