

CURRICULUM VITAE

Prof. Francesco De Natale
DISI – Università degli Studi di Trento

EDUCATION AND WORK HISTORY

Francesco De Natale graduated in Electronic Engineering at the University of Genoa in 1990 and received the PhD in Telecommunications from the same University in 1994. After 2 years of post-doctoral experience he got a position of Assistant Professor at the University of Cagliari, and then moved to the University of Trento, where he was awarded a Full Professorship in 2002. Currently he is with the Department of Information Science and Engineering, leading the Multimedia Signal Processing and Recognition Lab (MMLab), with around 15 researchers, doctoral students, post-docs and collaborators.

MANAGEMENT EXPERIENCE

Prof. De Natale has a long management experience, and in particular:

- He contributed to the creation and coordinated for several years the BSc and MSc in Telecommunications Engineering at the University of Trento (as a President of the Educational Area Council in Information Engineering from 2000 to 2006).
- He was the Head of the Department of Information Science and Engineering at the University of Trento from 2007 to 2010.
- In 2012-14 he was Representative of the University of Trento within the Node Steering Committee of the European Institute of Technology (EIT-Digital), with roles of strategic decision, definition of investment areas, communication.
- He was member of the GTTI Steering Committee from 2015 to 2018, with specific delegation on educational activities.
- He was member of the Board of Direction of CNIT in 2016-19.
- He has been member of the Exploitation Board of CNIT in 2020-22.
- He covered various roles within the IEEE Society, and especially the Signal Processing Society, organizing events (e.g., IEEE ICIP) and taking part to working groups in the field of multimedia signal processing.
- From 2015 he is responsible of the Living Lab AUSILIA, a large infrastructure established at the Villa Rosa rehabilitation Hospital in Trento, in cooperation with the Provincial Health System, the Autonomous Province of Trento and several University Depts.

EXPERIENCE IN RESEARCH PROJECTS

Prof. De Natale worked to the proposition, development, and management of several national and international projects (especially funded by the EU), both as a local responsible and as a project coordinator. In particular, he led a large Integrated Project under EU-FP7 (Glocal, 6Meuro funding), he coordinated the activities for the development of the AUSILIA Living Lab (2 phases, for

a total of around 2 Meuro), and is currently coordinator of Spoke2 of the PNRR-Ecosystem iNEST (3 years, 6 Meuro). Besides this, he participated in several national and EU projects (FP6, FP7, H2020, Industria2015, PRIN) as Principal Investigator and co-Investigator, and he received various industrial grants in different technological areas.

He also acted as a reviewer for different regional, national and international R&D programs (PAT, PON, POR, FESR, UE, NFS).

RESEARCH AND TEACHING EXPERIENCE

Prof. De Natale develops his research activity within the broad area of Telecommunications, with special focus on the field of Signal Processing and Multimedia. His recent interests concern the middle and high-level analysis (AI) of audio-visual signals, with application to environmental monitoring, videosurveillance, homecare and healthcare, forensic analysis of media contents, storage and retrieval methodologies, virtual and augmented reality and its application to the metaverse.

He carried out management roles (General chair, Technical program chair) for various important scientific events organized by main scientific societies in the area (IEEE, ACM), and he was Associate Editor of the main scientific journals in the field of Signal Processing (IEEE Trans. On Multimedia, IEEE Trans. On Circuits and Systems for Video Technology, IEEE Trans. On Image Processing). Currently, he is a Senior Associate Editor of the IEEE Trans. On Image Processing. He is author of more than 220 work of major Scopus-indexed journals and conferences.

He was also member of the National Habilitation Commission to the roles of academic professor (ASN) for the sector ING-INF/03, Telecommunications (2016-18).

He teaches 2 courses yearly within the BSc in Telecommunications Engineering (Fundamentals of Signal Processing and Multimedia Technologies), and 1 course for the Masters in Artificial Intelligence (Signals, Image and Video).