Riccardo Bernardini

Contact data

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Biography Riccardo Bernardini graduated in 1990 in Electronic Engineering at the University of Padova (Italy) with a final score of 107/110. He got his **PhD** in Electrical Engineering and Information Theory in 1995 at the University of Padova (*Fast Algorithms for Multidimensional Signal Processing*).

Employers

Date	Employer	Position
2001-current	University of Udine	Aggregate Professor
1997–2001	University of Padova	Contract researcher
1996–1997	EPFL (CH)	Postdoctoral Fellow (with Prof. Martin Vetterli)
1994–1995	AT&T Bell-Labs	Visiting Scientist (with Dr. Jelena Kovačević)
1992–1995	University of Padova	PhD student
1990–1991	University of Padova	Graduate Research Assistant

Teaching activities He teaches/has taught courses on

- Signal theory (University of Udine)
- Digital signal processing (University of Udine)
- Advanced digital signal processing, filter banks, wavelets and coding. (University of Udine)
- Didactic Laboratory of Information Engineering (University of Udine)
- *Metodi avanzati in ingegneria elettronica e delle comunicazioni* for the Scuola superiore (2019)
- *Applied cryptography* at the *FOURTH TRAINING SCHOOL on PROTOTYPING, TESTBEDS and IPR*, (March 2018, Bristol UK)
- *Geometry-based optimization methods for engineerin* PhD course (2016)
- *Discrete events simulation* PhD course (2015)
- *Discrete events simulation* PhD course (2014)

Research activities His main interests are in the field of digital signal processing. More into detail, his main fields of research are filter banks, distribute coding, multiple description coding, streaming over peer-to-peer networks, cryptographically strong hardware random number generators and physically unclonable constants, processing of biological signals (e.g., ECG), chipless RFID.

H-index (on 2nd April 2020): 11 (according to Scopus), 16 (according to Google Scholar).

Indicatori ASN 2016

N. Indicatore	1	2	3
Valore	9	272	6
Soglia	9	200	8

Other activities

- He has been **editor** for the editorial project *Cryptography* by *IntechOpen*
- He is **reviewer** for several international scientific magazines (among them: *IEEE Trans. on Signal Processing*, *IEEE Trans. on Circuits and Systems*, *IEEE Trans. on Image Processing*)
- He has been **reviewer** for national funding programs *PRIN* and *FIRB*
- He hs been **associated editor** for *IEEE Trans. on Circuits and Systems for video technology.*
- He was **coordinator** of the ***SourceForge* project** *Corallo* (an implementation of PPETP, the P2P transport protocol developed at the University of Udine)
- He was/is among the organizers of the workshops/meetings
  - GTTI MMSP 2020
  - GTTI Meeting 2018
  - GTTI MMSP 2014
  - *STreaming Day 2010*
- He has been involved in research projects

  2022 PRIN 2022, project QT-SEED (National coordinator)

  2019 Display4Ships

  2011 Barcotica

  2011 European Researchers' Night 2011.

  2008 Arachne: Advanced video streaming techniques for peer- to-peer networks

  2008 Omega (power-line communications)

  2005 Trasmissione multimediale affidabile su reti non affidabili: tecniche evolute di codifica sorgente/canale

  2003 Regional Project "TechUP"

  2003 European Project "WireNet"

  1999 Analisi, sintesi e indicizzazione di sequenze audio/video nella comunicazione multimediale,

  1999 European Project IST-1999-20859 Metavision

  1998 Ambienti avanzati per comunicazioni a pacchetto,

  1997 Comunicazione multimediale: analisi di contenuto, modellamento, accesso e protezione dell'informazione,

  1995 Elaborazione e codifica di segnali per sistemi multimediali di telecomunicazione,

  1996 Elaborazione e codifica di segnali per sistemi multimediali di telecomunicazione,

  1997 Comunicazione video in ambito radio-mobile,

  1997 Ambienti avanzati per comunicazioni a pacchetto,

  1996 Progetto di un codificatore video a basso bit rate,

  1995 Progettazione di un sistema di comunicazione video a bassissimo bit-rate,
- He has been member of the *Didactic commission* for the *electronic engineering CCS*
- He has been the University of Udine reference for the European initiatives Eposs and NetWorld 2020
- He is currently the UNIUD representative in CNIT (*National Inter-University Consortium for Telecommunications*)

IT experience He has good experience with Unix-like operative systems (especially Linux) and with several languages, among which: Ada, C, C++, Tcl/Tk, Perl, PHP, Ruby, HTML, XML, Matlab, PostScript.

The list of publications is available on IRIS.