

NEVIO BENVENUTO

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RESEARCH INTEREST

Voice and data communications, digital radio, and signal processing.

EXPERIENCE

May 1987-Present Professor, Department of Electrical Engineering, University of Padova. He was on the Faculty of the University of L'Aquila, Italy, from 1994 to 1995, and University of Ancona, from 1987 to 1990. Engaged in research and teaching in signal processing and communication systems.

Jan.1985-May 1987 Research Professor, Department of Electrical Engineering, University of Padova, Italy. Worked on spread spectrum communications.

Jan.1983-Jan.1985, May '85-Nov. '85, May '86-Nov. '86, May '87-Sep. '87, June '88-Oct.'88. Member of Technical Staff in AT&T Bell Laboratories, Holmdel, New Jersey. Initially was involved in acquiring methodologies and computer aid design tools for VLSI system design. In particular, designed a complete integrated circuit chip for application in a time compression multiplexing scheme for digital radio. Between November 1983 and June 1984, worked on a research project to measure the complex impulse response of a radio system for local area network within a building environment using a wideband probing sequence. Spent summer of 1984, 1985, 1986, 1987, and 1988 as a Visiting Professor with the Digital Techniques Department. Research activities conducted here pertained to digital signal processing with application to speech and voiceband data.

1977-1978 One year mandatory military service in the Italian army.

1976-1979 Member of group of consultants (Coordinator: Professor G.L. Cariolaro) for Telettra S.p.A., Milano, Italy. Research and development work on digital fiber optic transmission systems and jitter on sampling time-recovery of digital data transmission systems.

1976-1977 Assistant Research Professor, Department of Electrical Engineering,

University of Padova.

Visiting positions: HP Labs, Bristol, UK, and Columbia University, NYC, NY.

EDUCATION

1979-1982 Ph.D. in Electrical and Computer Engineering, University of Massachusetts, Amherst.

Worked with Professors Francis S. Hill, Jr. and Lewis E. Franks in the area of digital signal processing mainly focused on applications of delta modulation encoding to digital filters.

Thesis title: "Realization of Impulse Response Filters Using Coefficients + 1, 0, and -1".

Research assistantship awarded from January 1979 to August 1979 and from January

1981 to August 1982. Recipient of a teaching assistantship in Spring 1980, Summer 1980, and Summer 1981.

1971-1976 Laurea (approximate equivalent to American Masters' degrees) in Electrical Engineering, University of Padova, Padova, Italy.

Worked with Professor Gianfranco L. Cariolaro on the statistical characterization of digital transmission systems.

Thesis title: "Error Probability in Fiber Optical Digital Systems with Correlated Symbols."

SOCIETIES

Senior member of IEEE.

Editor for Modulation/Detection of the IEEE Communications Society from 2007 to 2012.