



Francesco Crenna

Associate Professor

University of Genova, DIME

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Education and Training

1989

Laurea in Physics, University of Genova, IT

Academic Experience

2017 – ongoing

Associate professor of Measurement and Instrumentation

University of Genova, IT

1995-2017

Assistant professor of Measurement and Instrumentation

University of Genova, IT

Other Experiences

1992 -1995

Designer at SIXTEL-Olivetti Group, Ivrea (Turin), IT

Design, industrialization, quality control and conformance assessment of DECT radio for wireless communication and voice transmission.

1990 -1992

Researcher at Ansaldo Ricerche srl, Genova, IT

Development of magnetic measurement systems for the characterization of particle accelerator magnets; design and testing of particular magnets and undulators based on permanent magnets.

1989-1990

Fellowship at National Research Council, CNR,
Institute of Physical Chemistry Applied to Materials, ICFAM, Genova, IT

Surface tension measurement for the investigation of the nucleation phenomena in melted mixture of metals- Space Lab D2 Experiment.

Teaching

As a Professor at the University of Genova he is in charge of courses in the fields of Measurement and Instrumentation and Biomechanics.

He is a member of the board of lecturers of the Ph.D. School of Mechanical Engineering.

He has been a lecturer at the International Ph.D. School "Italo Gorini"

Currently he is in charge of the following courses:

- Measurement and Instrumentation (B.Sc. Mechanical Eng.)
- Fundamentals of Biomechanics (B.Sc.)
- Measurement Systems (M.Sc. Mechanical Eng.)
- Measurement - Mechatronics Laboratory (M.Sc. Mechanical Eng.)
- Sports Biomechanics (M.Sc. Bioeng.)

Institutional Activities

2020 ongoing

responsible for the Quality Assurance of the DIME Department.

2017 ongoing

responsible for the safety of the Measurement and Biomechanics Laboratory.

2012-2018

elected in the council of the Mechanics, Energy, management and Transportation Engineering Department, DIME

2012-2018

elected in the Polytechnic School Council.

2003 to 2017

responsible for the ISO9001 certified Quality Assurance system of the Measurement and Biomechanics Laboratory.

Research interests

His research interests are mainly focused on measurement problems and systems applied in different fields. His main research topics are:

- measurement of sea waves and estimation of sea state;
- measurement and models in biomechanics;
- probabilistic expression of measurement results, measurement uncertainty evaluation and risk assessment in measurement based decisions;
- dynamic measurements and signal processing;
- measurement of perceived quantities;

He is author of national and international scientific papers presented at congresses and published on journals, about 75 of them are indexed publications in the field of measurement.

Member of the IMEKO Technical Committee TC7 - Measurement Science since 1998, from 2024 he is Scientific Secretary of the committee.

He is a member of the Sea Study Center of the University of Genova.

He is currently involved in the PNRR Project RAISE, Spoke 4 Project 6 : 'Nowcasting and forecasting of met-ocean conditions'.

He has been Coordinator of the European Project Eurobench - SLEDGE and Principal Investigator of the European Project Eurobench – BULLET.

Assignments

Scientific Secretary of the IMEKO Technical Committee 7 – Measurement Science

Member of the Scientific committee of the METROSEA congress.

Member of the organizing committee of:

- 2004 IMEKO-IEEE-Society of Instrument and Control Engineers Second International Symposium on Measurement, Analysis, and Modeling of Human Functions, Genova , IT
- 2008 International intensive course on perceptual measurement - European Measuring the Impossible Network, Genova , IT
- 2013 Joint IMEKO TC1- TC7-TC13 Symposium, Genova , IT
- 2011 National Measurement Congress, Genova, IT

He operate as a reviewer for measurement related journals and research projects.