

Mr. **Antonio Ranieri** graduated in Physics at the Physics Department of the University of Bari July 19, 1977 and subsequently was a visiting researcher at the European Center for Nuclear Research (CERN) in Geneva. He returned to Italy as a fellow first and then as associate of the National Institute of Nuclear Physics (INFN), entering into definitive role in March 1982, carrying out work research in the field of hadron physics with fixed target at CERN, mainly in collaboration with the Max Planck Institute in Munich .

In the 1992 as Senior Researcher of INFN became project manager for the development of the system of reading data from the hadron calorimeter and muon chambers of the ALEPH experiment at the Large Electron Positron collider built at CERN. In the 2001, he became Director of Research taking part to the CMS experiment at the Large Hadron Collider at CERN, where it was the Italian responsible for a few years of the muon trigger electronic system of the RPC detectors in CMS experiment.

He was in charge of several national projects for the development and diffusion of microelectronics inside INFN and for twenty years heads the microelectronics Group in Bari.

On the time being is local responsible of KLOE2 experiment, leading an engineering group for the construction at the National Laboratories of Frascati of the first completely cylindrical triple GEM detector installed as Inner Tracker of the KLOE apparatus at DAFNE e^+e^- collider. He was teaching at the Master of Science in Physics Department of the University of Bari and is co-authored of hundreds of publications on international journals.



Maria Pia Fanti received the Laurea degree in electronic engineering from the University of Pisa, Italy in 1983 and was a visiting researcher at the Rensselaer Polytechnic Institute of Troy, New York, in 1999. Since 1983 she is with the Department of Electrical and Information Engineering of the Polytechnic of Bari (Italy) where now she is full professor of System and Control Engineering and Chair of the Laboratory of Automation and Control.

Her research interests include discrete event systems, Petri net, sensor networks, management and modeling of automated manufacturing systems, automatic guided vehicle systems, railway and traffic networks, supply chains, and healthcare systems.

She has published around 220+ papers and two textbooks on these topics. She was General Chair of the 2nd IFAC Workshop on Dependable Control of Discrete Systems, of the 2010 IEEE Workshop on Health Care Management, and of the 2011 IEEE Conference on Automation Science and Engineering. She was member of the International Program Committees of around 40 international conferences.

Prof. Fanti is Editor of IEEE TRANS. ON AUTOMATION SCIENCE AND ENGINEERING and Associate Editor of the following journals: IEEE TRANS. ON SYSTEMS, MAN, AND CYBERNETICS PART A, ENTERPRISE INFORMATION SYSTEMS.

She is vice-chair of the IEEE Italy Section, member at large of the board of governor of the IEEE SMC Society, Co-Chair of the Technical committee on Discrete Event Systems of the IEEE SMC Society, Chair of the Central & Southern Italy SMC Chapter, Chair of the Technical committee on Automation in Logistics and of the IEEE Robotics and Automation Society.

In 2008 prof. Fanti received the Most Active Technical Committee Award of the IEEE SMCS, as the chair of the TC on Discrete Event Systems and the IEEE the SMCS Best Associate Editor Award for the "Outstanding contributions as Associate Editor of the IEEE Trans. on Systems, Man and Cybernetics, Part A: Systems and Humans".

CURRICULUM VITAE ET STUDIORUM**Umberto FRATINO**

Born in Rovigo (Italy) on January, 4, 1965, BSc in Hydraulic Engineering at the University of Bari in 1990 and PhD in Hydraulic Engineering at the University of Naples in 1994.

Lecturer in Hydraulic Engineering at Technical University of Bari (Italy), since 2001 he was Associate Professor in Hydraulic Engineering at same University.

Since April 2012, he is Full Professor in Hydraulic Engineering.

Academic roles and duties

In 2003, he was delegate of the Rector for management of the research projects in regional, national and international context and starting from 2003, he was appointed, as representative of Technical University of Bari, in the scientific Committee of several masters organized by Technical University of Bari in collaboration with other national and foreign universities or research centers (i.e Master in *Water System Management*, in *Environmental Protection of Production and Management of Underground Fluids*?, in *Use of Water Resources in Agriculture* and in *Environmental Policy and Management*)

In the period 2003-2009, he was appointed in the Engineering Faculty Executive Board as representative of the associate professors and in the Executive Board of the Department of Water Engineering and Chemistry.

In 2005 and 2008, he was member of the examination board in two national public exam for selecting university lectures. From 2008 he was appointed several times in the examination board of the final exam for the fulfillment of PhD title.

In 2009 he was nominated as representative of professors in the Governing Body of the Technical University of Bari and vice head of the Department of Water Engineering and Chemistry.

Actually he is representative of professors in the Governing Body of the Technical University of Bari (2012-2015), member of Task Force of European Innovation Partnership on Water and member of the Scientific Board of Italian Group of Hydraulics.

Teaching activities

Since 2004 until now, he teaches the university course named *River Basin Management* at the last year class students of Environmental and Civil Engineering.

Since 1995 he kept at own University several courses concerning water related subject. Among these can be mentioned: *Hydraulics construction*, *Complex hydraulic system management*, *Hydrology*, *Hydraulic works*, *Watershed protection*, *Irrigation and drainage*.

Since 2003, he is teaching *Hydrology and Surface Water Management* module in the two-year Master on *Irrigation Sciences* for students (engineers and agronomists) coming from developing Mediterranean countries, held by *Centre International de Hautes Etudes Agronomiques Mediterranennes*. He was appointed member of the examination board for the final exam of the above mentioned master starting from 2010 to 2014. He was scientific supervisor of more than one hundred BSc or MSc thesis

Research activities

The main research areas are: **i)** the dissipation and cavitation performances of control devices in pressurized systems; **ii)** the hydraulic characteristics of the dam spillways; **iii)** the transient flows; **iv)** water balance: estimate of water availability and management of water demand and **v)** the river basin management and flood risk.

In 1994, he was in Logan (UT, USA) at Utah State University for developing experimental activities on the cavitation performances of control valves under the supervision of prof. Paul Tullis.

Since 2001, he is research associate of National Institute of Nuclear Physics (INFN) and, at the same time, research associate at CERN in Geneva as coordinator of the research team responsible of the design and construction of the hydraulic supply system for HMPID in Alice experiment

He is reviewer of several international journal (Journal of Hydraulic Engineering, Journal of Irrigation and Drainage, Journal of Hydraulic Research, Irrigation and Drainage, Journal of Hydrology and so on).

He is author or coauthor of more than 150 papers, mainly published on ISI or ISI like journal.

LIST OF SELECTED PAPERS (2011-2014)

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