

Prof. Giovanni Picardi

Born on December 1936 in Sarnano, Italy

PhD in Electrical Engineering at the University of Rome 'La Sapienza', 1960. In 1961 he joined Selenia SpA (now Selex SI) working on radar signal processing with the aim to develop radar systems giving great capability of innovation and technical excellence in the design and development of air traffic control radars and telecommunication subsystems. In that time he published the book "*Circuiti a transistori: analisi e progettazione*"-Ed. Bizzarri, 1973.

In 1970 he began teacher of Cybernetics and information theory at the University of Perugia. In 1975 he joined the University of Bari as a Full Professor of Electrical Communications. Since 1978 he was Full Professor of "Radar and Remote Sensing Systems" in the Sapienza University of Rome. Since 2011, he is Professor Emeritus at the Sapienza University of Rome. He was Awarded by the Italian "Accademia dei Lincei" and in that occasion was invited to give a "lectio magistralis" on the "*Inversion processing of Mars Planetary radar for subsurface observation processing*".

He was member of several teams set for international programs in ESA and in the Italian Space Agency (ASI), like the *Seasat radar altimeter*, the Science Teams for *Rosetta Comet Nucleus Sample Return*, the MORO (*Moon Orbiting Observatory*), and the *Intermarsnet* missions. He was also member of the *Cassini Radar Science Team*, the *SHARAD Science Team*, and Co-Investigator of the *Rosetta CONSERT experiment*. He is the Principal Investigator of the *ESA MARSIS, Mars Express experiment*, being responsible for the radar inversion processing with the aim to estimate the subsurface bedrock dielectric constant and, possibly, the presence of liquid water, in the Martian crust.

He is co-author of more than 200 papers published in international scientific journals, and author of the several books: "*Elementi di teoria matematica delle informazioni*" -Ed. Siderea-Roma, 1973 (in cooperation with Antonio Palma), "*Nota sull'analisi ed elaborazione dei segnali*" -Ed. dell'Ateneo & Bizzarri, Roma 1978, "*Elaborazione del segnale radar*" (Radar signal processing) -F. Angeli, 1988, and is author of the chapter entitled "*Radar for measuring interplanetary bodies*" in the book "Ground Penetrating Radar, 2nd Edition" Edited by David J. Daniels.