

Giulio Barabino

Professional Profile

Electronic engineer and university lecturer with over fifty years of experience in research and teaching in the fields of electrical engineering, electronic systems, and complex software. Contributed to several national research projects on optimization techniques, software modeling, hybrid propulsion systems, and object-oriented applications. Currently a contract professor at the University of Genoa, La Spezia campus.

Academic Education

- Degree in Electronic Engineering, University of Genoa – 1973

Academic and Professional Experience

Adjunct Professor – University of Genoa, La Spezia Campus

2016 – Present

Module in Electrical Engineering for the Bachelor's Degree in Nautical Engineering.

Associate Professor (ING-IND/31 – Electrical Engineering) – DITEN, University of Genoa

1986 – 2016

President of CSITA – University of Genoa

1997 – 2005

University Centre for IT and Telecommunication Services.

Researcher – Institute for Electronic Circuits, CNR

1971 – 1986

Teaching Activity

- Elettrotecnica A – Bachelor's Degree in Nautical Engineering (2006–2016; since 2016/2017 as adjunct professor)
- Elettrotecnica – Bachelor's Degree in Chemical Engineering (until 2015/2016)
- Impianti Navali B – Bachelor's Degree in Nautical Engineering (2012–2015)

Research Activity

- Optimization techniques applied to electronic design

- Databases and software development using object-oriented techniques
- Neural and nonlinear circuits
- Real-time processing and transmission of multidimensional signals in integrated video surveillance systems
- Controlled and synthesized radiofrequency oscillators
- Open-source software for financial market modeling
- Metrics for assessing and evaluating the quality of complex software systems
- Hybrid and electric propulsion systems for recreational boating

Selected Publications

- An Empirical Comparison of Function Points and Web Objects, CiSE, Wuhan (2009)
- A New Energy Storage and Conversion System for Boat Propulsion in Protected Marine Areas, ICCEP, Capri (2009)
- A Revised Web Objects Method to Estimate Web Application Development Effort, ICSE '11, Honolulu (2011)
- Size Estimation of Web Applications through Web CMF Object, WETSoM, Zurich (2012)
- Effort Estimation of Web Applications through Web CMF Objects, IWSM/Mensura, Assisi (2012)
- The Use of Agile Methodologies in the Context of Web Programming: A Survey, XP2014, Rome (2014)
- Web Framework Points: an Effort Estimation Methodology for Web Application Development, J. Softw. Evol. and Proc. (2015)
- Incidence of Predatory Journals in Computer Science Literature, Global Knowledge, Memory and Communication (2017)
- Design Patterns for Gas Optimization in Ethereum, IEEE IWBOSE, London (2020)

Languages

- Italian – Native speaker
- English – Good working knowledge