



## Curriculum Vitae – Prof. Perrone Guido

Guido Perrone received the MS degree in Electronic Engineering (major in Photonics) and the Ph.D. in Electromagnetics / Photonics, both from Politecnico di Torino (Turin, Italy) in 1990 and in 1994, respectively.

Since 1993 he has been with what it is now called the Department of Electronics and Telecommunications of Politecnico di Torino, where is currently professor, in charge of courses on Microwaves and on Photonic Devices. In 1994-95 he was Visiting Research Fellow at the Optoelectronic Research Centre of the University of Southampton (UK), where he worked at the development of integrated optical devices.

Throughout his academic career, Prof. Perrone lectured in more than 100 courses and supervised more than 120 graduate level thesis activities and about 10 PhD students. Moreover, since 2004 he has been member of the Board governing his Department, one of the largest of the University (over 100 faculties, with a total of about 350 members); currently he is also the coordinator of the departmental educational labs.

The research activity has always been in the field of Photonics, with a special focus on the development of optical components, first as integrated devices for telecommunications and then in the last two decades as fiber optic devices for industrial (e.g. material processing such as cutting and welding and marking, and, more recently, additive manufacturing) and biomedical (e.g. surgery, laser ablation of tumors) applications. Currently, prof. Perrone is leading a group that is mainly working on the development of fiber-based sensing systems and of innovative architectures for high power diode lasers. The research activities led to the publication of more than 200 papers in international journals and conferences and to about 10 patents on fiber sensors and lasers. Prof. Perrone is also co-author (together with one of his former PhD students) of a book on fiber-optic sensors for biomedical applications (Artech House).

Prof. Perrone has been coordinator of quite a number of publicly funded project proposals, among which: Hipernano (high power fiber laser sources), Life (high power, eye-safe fiber lasers), Laserfactory (new concept of laser-based material processing machine), Ecoweld (innovative laser welding tool), Borealis (next generation of laser-based manufacturing machine), Brightex (high brightness and power multi-emitter laser diodes), and HFCS (fiber sensors in aerospace applications), FIP (setting up lab facilities for industrial photonics applications). He has also been principal investigator in many research contracts with private companies.

Prof. Perrone is member of the Italian Professional Engineers Association, of the Optical Society of America (OSA), of the American Institute of Physics (AIP), of the Photonics Society and of the Microwave Theory and Technique Society of the Institute of Electrical and Electronic Engineers (IEEE), of the Italian Optical Society (SIOF).

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**Prof. Guido Perrone, Ph.D.**

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