

Gabriella Cincotti



Full Professor, Head of the Photonics Lab

Department of Civil, Computer and Aeronautical Engineering — Roma Tre University

Research Interests

- Photonic devices
- High-speed optical signal processing
- Super-resolution microscopy
- Spectroscopy

Teaching

- Fundamentals of Telecommunications — B.Sc. in Computer Engineering

- Wired and Wireless Networks — M.Sc. in Computer Engineering

Supervision: 10+ PhD/post-docs, 150+ undergraduate theses

Editorial Roles (last 10 years)

- Editor in Chief, IEEE Photonics Journal (2021–2023)
- Board Member, IPS Publications Council (2020)
- Deputy Editor, OSA Optica (2018–2020)
- Topical Editor, OSA Optica (2015–2017)
- Associate Editor, IEEE Journal of Communication and Network (2013–2020)

Conference Committees (last 10 years)

- SPIE Optical Metrology (2021)
- Italian Conference of Optics and Photonics ICOP (2020–)
- International Commission for Optics ICO (2017)
- Optical Fiber Conference OFC (2016–2017)
- International Conference on Optical Communication Systems OPTICS (2014–)
- Photonics in Switching PSC (2011–2017)

Research Projects (last 10 years)

- ASTROMUX (European Space Agency ESA, 2023–2025): Wavelength division multiplexer (WDM) and de-multiplexer at 1550 nm for space applications: Advanced Space Technology for Reliable Optical Multiplexing
- AUTENTICO (Regione Lazio, 2021–2023): Optical unclonable authentication for fintech
- MBSmart (Regione Lazio, 2018–2020): Device for microbiological food analysis
- STARBOARD (Japan Society for the Promotion of Science 2016–2019): Study on optical signal processing in time-frequency intermediate domain

Honors & Awards

- IEEE Fellowship (2021) for *Contributions to planar photonic devices and beam diffraction in anisotropic media*
- OPTICA Fellowship (2014) for *Significant contributions to the development of passive waveguide-based, optical devices and systems, for advanced optical communications systems*
- IEEE Photonics Society: Board of Governors (2017-2019), Publications Council (2020), Distinguished Lecturer (2020-2021)

Publications & Metrics (January 2026)

- 126 journal papers
- 200 conference papers (100 invited)
- 3695 citations
- h-index: 33