



PAOLO PAVAN

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Professor of Electronics | University of Modena and Reggio Emilia

Senior Member, IEEE (since 2012)

CURRENT POSITIONS

- **President**, Italian Electronics Society Association (*June 2024 – Present*)
- **Vice Rector for International Relations and Internationalization**, University of Modena and Reggio Emilia (*2025 – Present*)
- **Full Professor of Electronics**, University of Modena and Reggio Emilia (*2004 – Present*)
- **Associate Editor**, *IEEE Journal of the Electron Devices Society* (*Jan 2017 – Present*)

EDUCATION & ACADEMIC VISITS

- **Visiting Scientist**, Saifun Semiconductors, Israel (*1997 – 2000*)
- **Visiting Graduate Student / Graduate Student**, UC Berkeley, USA (*1992 – 1994*)
- **Ph.D. in Electronics**, University of Padua (*1994*)
- **M.Sc. / Degree in Electronics**, University of Padua (*1990*)

PAST ACADEMIC & INSTITUTIONAL ROLES

- **Rector’s Delegate for University Scientific Research** (*2019 – 2025*)
- **President**, National Scientific Qualification Committee (*2018 – 2021*)
- **President**, Interclass Council of Electronic Engineering (*2008 – 2016*)
- **Member**, Academic Senate, University of Modena and Reggio Emilia (*2010 – 2012*)
- **President**, Interuniversity Consortium for Nanoelectronics (IU.NET) (*2005 – 2011*) (*Co-founder*)
- **Associate Professor** (*1998 – 2004*) | **Researcher** (*1994 – 1998*)

RESEARCH INTERESTS & PROJECTS

Principal Investigator and Coordinator for national, European, and industrial research projects:

- **Semiconductor Devices & Reliability**: Characterization, compact and TCAD modeling, degradation analysis.
 - *Non-Volatile Memories & Neuromorphic Circuits*: RRAM, "logic-in-memory" applications, neuromorphic circuit design.
 - *GaN Power Devices*: Performance and lifetime optimization.
- **Industrial & Automotive Electronics**: Physiological signal monitoring for driver fatigue identification.
- **International Mobility**: Participant in Erasmus+ KA107 programs (Vietnam, Brazil, 2018–2019).

PUBLICATIONS & SCIENTIFIC OUTPUT

- Author of **150+ publications** in peer-reviewed journals and international conference proceedings.
- Author/co-author of **1 book** and **4 book chapters**; contributor to several invited papers.

PROFESSIONAL SERVICE & COMMITTEES

- **ESSDERC / ESSCIRC**: Steering Committee Advisor (2021), Steering Committee Member (2015–2021), Technical Program Chair (2014), Technical Committee Member (2012–2020).
- **IEEE IEDM**: Technical Sub-Committee Member (2020–2021, 2002–2003), European Arrangement Chair (2005–2006), Sub-Committee Chairman (2004).
- **ESREF**: Technical Committee Member (2012–2020), Chair of Technical Committee on Reliability (2002).
- **IEEE IRPS**: Technical Committee Member (2014–2015).
- **VLSI-TSA (Taiwan)**: Technical Committee Member (2006–2010).
- **Editorial Roles**: Guest Editor for *Solid-State Electronics* (2014); Editor for Special Issue on Nonvolatile Memories, *IEEE TDMR* (Sept 2004).