PERSONAL INFORMATION

Marius Horia Paulescu

Faculty of Physics
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Sex Male | Date of birth 17/05/1967 | Nationality Romanian

WORK EXPERIENCE

2017 – Present — Professor

Faculty of Physics, West University of Timisoara

- Numerical methods in physics, Modeling and forecasting of solar radiation, Photovoltaics

2009 – 2017 — Associate professor

Faculty of Physics, West University of Timisoara

- Numerical methods in physics, Modeling and forecasting of solar radiation, Photovoltaics

2004 - 2009 — Lecturer

Faculty of Physics, West University of Timisoara

- Numerical methods in physics. Semiconductor physics, Photovoltaics

1995 -2004 — Assistant

Faculty of Physics, West University of Timisoara

- Electronics, Semiconductor physics, Photovoltaics

EDUCATION AND TRAINING

2016 — Habilitation in Physics

Faculty of Physics, West University of Timisoara

- Thesis: *Estimation and forecasting of the PV systems output power*

2001-2004 — PhD

Faculty of Physics, West University of Timisoara

- PhD thesis: *Measurement and estimation of solar energy, Photovoltaics applications*.
  PhD supervisor: Prof. dr. Ioan Hrianca.

1986-1991 — BSc

Faculty of Physics, West University of Timisoara

- Theoretical Physics.

PERSONAL SKILLS

Mother tongue(s): Romanian
Other language(s): English

Publications

- 120 scientific papers published in peer-reviewed journals or communicated to international conferences from which 85 are indexed by WoS;
- A book: M. Paulescu, E. Paulescu, P. Gravila, V. Badescu, *Weather Modeling and Forecasting of PV Systems Operations, Springer*, London, 2013);
- Editor of *Physics of Nanostructured Solar Cells*, (V. Badescu, M. Paulescu, Eds) Nova Science, New York, 2010);
- 8 chapters published in edited books (Springer, Elsevier, Wiley, Symmetria Athena, Nova Science New York)
- 800+ citations (without self-citations), according to WoS;
- Hirsch index h = 20
- A full list of publications is available online at http://solar.physics.uvt.ro/~marius

Research projects

- PN-III-P2-2.1-PED-2021-0544. Microrețea hibridă cu surse regenerabile de energie și cost de operare optimizat, ce integrează metode de management energetic bazate pe predicția puterii solare (HELIoS) Partner leader. 2021-2024.
- PN-III-P2-2.1-PED-2019-3942, All-sky imager-based solar power forecasting system for smart-grid operation. Project director, 2020-2022.
- COST Action CA16235- PEARL PV, Performance and Reliability of Photovoltaic Systems: Evaluations of Large-Scale Monitoring Data. National Representative in the Management Committee. 2017-2022.
- PN-III-P2-2-1-PED-2016-0592, PV Power Forecasting Toolkit for Smart Grid Management. Project director. 2017-2018.
- UVT 30 / 2017 Estimation of the energy production by the PV plant Brestovat. Project director
- 32-ELI/01.09.2016 ELICRYS-2 .RO-CERN-Programme ELI-NP Domain, Physical and numerical experiments for studying LPA and their interaction with crystalline materials, Researcher, 2016-2019
- E13/2014 ELICRYS. RO-CERN-Programme ELI-NP Domain, Effects of high-energy radiation on some fluorite and semiconductor crystals, Researcher, 2014-2016
- COST Action ES1002 WIRE: Weather Intelligence for Renewable Energies (EU-RTD Program, Researcher în WG-1: Forecasting the output power of PV plants, 2010-2014
- UVT 32/2010 – Energy supplied by a PV system in Tg. Jiu area. Project director
- PN II 21039/2007 - PASOR: Solutions for solar architecture BIPV, Scientific director of the project, 2007-2010
- CEEX 247/1/2006 - NANOPV. Increasing the nanostructured solar cells efficiency, Partner leader, 2006-2009
- CEEX-23/2006, CFN-DYE, Development foto-electro-chemical solar cells based on TIO2 and dyes, Researcher, 2006-2009
- CEEX 6105/2005, QUANET, Simulation of quantum semiconductor devices, Researcher, 2005-2008

ADDITIONAL INFORMATION

Awards

- Romanian Academy award “Anghel Saligny” in 2015
- West University of Timisoara award “Mircea Zaganescu” in 2017

Membership in representative bodies

- Renewable Energy Commission of the Romanian Academy
- Editorial Board of Atmosphere (IF = 3.11)

Membership in professional organizations

- ISES – International Solar Energy Society
- Romanian Physical Society

October 2023 **Marius Paulescu**