

Professional Curriculum Vitae

József Pávó
DSc, PhD, Habil., Professor
Born, Szeged, Hungary, 1963

Studies and Theses

- 2010 Habilitation in the field of electrical engineering sciences: Faculty of Electrical Engineering, Budapest University of Technology and Economics (BME)
- 2009 Doctor of the Hungarian Academy of Sciences (DSc)
- 1994 Doctor of Engineering (PhD) of The University of Tokyo, field of study: Quantum Engineering and Systems Science
- 1991–1994 Postgraduate studies at the Department of Quantum Engineering and Systems Science, Faculty of Engineering, The University of Tokyo, Japan
- 1992 Doctor of Philosophy in Technical Science (PhD): Hungarian Academy of Sciences
- 1987–1990 Postgraduate studies at the Department of Electromagnetic Theory, BME, sponsored by the Hungarian Academy of Sciences
- 1987 MSc of Electrical Engineering in Telecommunications: Faculty of Electrical Engineering, Technical University of Budapest, today: BME

Professional experience

- 2011– Professor at the Department of Broadband Infocommunications and Electromagnetic Theory, BME
- 1998–2011 Associate Professor at the Department of Electromagnetic Theory, BME, after merging this department with an other one in 2003, the name was changed to Department of Broadband Infocommunications and Electromagnetic Theory
- 1996–1998 Senior Lecturer at the Department of Electromagnetic Theory, BME
- 1995 Researcher at the Department of Electromagnetic Theory, BME
- 1990–1991 Lecturer at the Department of Electromagnetic Theory, BME

Stays in abroad

- 2004 Visiting researcher: CNRS, Laboratoire des Signaux et Systemes (LSS-SUPELEC), Gif sur Yvette, France (5 month)
- 2004 Visiting researcher: Advanced Systems Evaluation Laboratory, Institute of Fluid Science, Tohoku University, Sendai, Japan (1 month)
- 2003 Visiting researcher: CNRS, Laboratoire des Signaux et Systemes (LSS-SUPELEC), Gif sur Yvette, France (5 month)
- 2002 Visiting researcher: Advanced Systems Evaluation Laboratory, Institute of Fluid Science, Tohoku University, Sendai, Japan (1 month)
- 2002 Invited professor: Laboratoire de Génie Electrique de Paris (LGEP), Université Paris-Sud XI., France (1 month)
- 1999 Visiting researcher: Department of Computer Science, Mathematics, Electronics and Transportation Systems, University of Reggio Calabria, Italy, (1 month)

Research interest and teaching activities

The main research topics are related to numerical electromagnetic (EM) field analysis, network analysis, solution of inverse problems, optimization and design of electromagnetic systems. In detailed,

- Solution of direct and inverse problems related to eddy current nondestructive testing,
- Modelling of wave propagation in integrated optical networks, study of the coupling of integrated optical waveguide ends,
- Numerical analysis used for the design, optimization and calibration of high sensitivity magnetic field sensor,
- Methods for the approximate calculation of losses in nonlinear stratified media,
- Analysis and design of high frequency passive devices,
- Modelling of the scattering of millimetre EM waves on special surfaces,
- Analysis of EM wave propagation in random media,
- Modelling of micro-Doppler phenomena applied in EM remote sensing,

Lectures delivered on EM field theory, on numerical electromagnetic simulation and design and on linear network and system theory at Faculty of Electrical Engineering and Informatics and at Faculty of Mechanical Engineering, BME.

International relations and activities

- Chairman and organizer of the *19th COMPUMAG Conference on the Computation of Electromagnetic Fields* (June 30-July 4, 2013, Budapest): www.compumag2013.com,
- Organizer and Co-Chairman of the *5th International Workshop on Electromagnetic Nondestructive Evaluation* (June 28-30, 2000, Budapest),
- Section editor of some issues of *IEEE Transactions on Magnetics*, Editorial Board Member of *International Journal of Applied Electromagnetics and Mechanics*, Editor in chief of *Periodica Polytechnica Electrical Engineering and Computer Science* between 2012-2015,
- Board member of the *International Compumag Society*.

Publications

About 190 papers in learned international journals or conferences that have more than 590 independent citations (h index is 12). For details, please visit:

<https://m2.mtmt.hu/api/publication?cond=authors;in;10001419>