



## Stefan SIMION



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Date of birth: June 12, 1967

Nationality: Romanian

### WORK EXPERIENCE

|                         |                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Oct. 2013 - present     | <b>Full. Prof.</b> (teaching and research activities)<br>Military Technical Academy.<br>George Cosbuc 39-49, Bucharest, Romania                                               |
| Oct. 2000 – Sept. 2013  | <b>Assoc. Prof.</b> (teaching and research activities)<br>Military Technical Academy,<br>George Cosbuc 39-49, Bucharest, Romania                                              |
| Oct. 1997 – Sept. 2000  | <b>Lecturer</b> (teaching and research activities)<br>Military Technical Academy,<br>George Cosbuc 39-49, Bucharest, Romania                                                  |
| Sept. 1993 – Sept. 1997 | <b>Scientific researcher</b> (research activities)<br>Institute of Microtechnology (IMT – Bucharest, former ICCE - Bucharest),<br>Erou Iancu Nicolae 126A, Bucharest, Romania |
| Oct. 1990 – Aug. 1993   | <b>Scientific Eng.</b> (research activities)<br>Institute of Microtechnology (IMT – Bucharest),<br>Erou Iancu Nicolae 126A, Bucharest, Romania                                |
| 2006 - 2010             | <b>Senior researcher</b> (research activities – part time)<br>Institute of Microtechnology (IMT – Bucharest),<br>Erou Iancu Nicolae 126A, Bucharest, Romania                  |

### EDUCATION AND TRAINING

|             |                                                                                                                                                                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2015        | <b>PhD Eng. Habilitation</b> ,<br>in the field of Electronics and Telecommunications Engineering.<br>The habilitation thesis has been defended at the University POLITEHNICA of Bucharest; Faculty of Electronics, Telecommunications and Information Technology. |
| 1995 – 2000 | University POLITEHNICA of Bucharest,<br>Faculty of Electronics and Telecommunications,<br>obtaining the <b>PhD Eng.</b> degree,<br>in the field of Electronics and Telecommunications Engineering                                                                 |
| 1985 – 1990 | University POLITEHNICA of Bucharest,<br>Faculty of Electronics and Telecommunications,<br>obtaining the <b>Engineer</b> degree,<br>in the field of Electronics and Telecommunications Engineering                                                                 |

## TEACHING ACTIVITY

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fundamental courses*       | <ul style="list-style-type: none"> <li>- <b>Microwave Techniques</b></li> <li>- <b>Electronic Devices,</b></li> <li>- <b>Basics on Electronic Circuits</b></li> </ul> |
| Advanced (Master) courses* | <ul style="list-style-type: none"> <li>- <b>Design of Microwave Circuits</b></li> </ul>                                                                               |

\* in Military Technical Academy from Bucharest.

1997 – 1998 and 2006 – Assoc. prof. at the University POLITEHNICA of Bucharest, Faculty of Electronics, Telecommunications and Information Technology, for seminars and labs. on *Microwave Technique*.

## RESEARCH ACTIVITY

Coordinator or member in the research team, for more than 15 research project (including international research projects).

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|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Research results on...                          | <ul style="list-style-type: none"> <li>- Modelling, design and technology of linear and nonlinear distributed circuits (amplifiers, phase shifters, frequency multipliers).</li> <li>- SIW modelling and experiments.</li> <li>- Composite Right-/Left- Handed (CRLH) structures and related applications of new configurations of microwave active and passive circuits.</li> <li>- Analysis and design of DR and related circuits.</li> <li>- Capacitive MEMS, modelling and design.</li> <li>- Dual-band circuits.</li> <li>- Dielectric antennas.</li> <li>- Measurements of permittivity and loss tangent of dielectric materials.</li> <li>- Measurement techniques of microwave circuits using VNAs.</li> </ul> |
| Coordination of students on research activities | <ul style="list-style-type: none"> <li>- <b>Since February 2015, PhD coordinator in the field of <i>Electronics and Telecommunications Engineering</i>.</b></li> <li>- more than 60 students working toward their Eng. diploma, in Military Technical Academy from Bucharest.</li> <li>- 3 students working toward their final diploma from abroad (France).</li> <li>- students involved in different national research projects.</li> </ul>                                                                                                                                                                                                                                                                          |

## INTERNATIONAL RESEARCH PROJECTS

- ***Accurate modeling of CRLH (Composite Right / Left Handed) transmission lines and new design methods of related circuits*** – contract director. Bilateral cooperation (Romania - Italy), between Military Technical Academy and Univ. “Tor Vergata” from Rome (2013 – 2014).

- ***Electromagnetic band gap (EMBG) materials and devices for microwave and millimeter wave applications*** – member in the research team from IMT – Bucharest (employed part-time). Bilateral cooperation (Romania – Italy), between National Institute for Research and Development in Microtechnologies (IMT – Bucharest) and Consiglio Nazionale delle Ricerche, Istituto Microelettronica e Microsistemi (2006 – 2008).

- **Development of materials and devices for nonlinear microwave applications** – member in the research team from IMT – Bucharest. Bilateral cooperation (Romania – Italy), between National Institute for Research and Development in Microtechnologies (IMT–Bucharest) and Consiglio Nazionale delle Ricerche, Istituto Microelettronica e Microsistemi (1996 – 1998).

- **Inter-Academic cooperation in the field of compound semiconductors**, between National Institute for Research and Development in Microtechnologies (IMT–Bucharest) and the Research Institute for Technical Physics of the Hungarian Academy of Sciences (MTA MFKI) – Budapest, Hungary (1992 – 1996).

#### INVITED and VISITING PROFESSOR

- 1999, 2006, 2007, 2009: "Visiting professor" at the University "Tor Vergata" from Rome, Italy. During these short stages (1-2 weeks each), research activities related to *microwave and millimeter wave non linear circuits* (1999), *metamaterial microwave antennas and couplers* (2006, 2007) and *new linear and non-linear Composite Right/Left-Handed (CRLH) structures, for applications in pass-band filters, frequency doublers and pulse compression* (2009), have been performed.
- Invited by de University "Tor Vergata" din Rome, Italy, in the frame of ERASMUS SOCRATES program.  
During this stage, a short talk related to *MEMS switches, phase shifters and tunable filters* has been presented.

#### STATISTICS RELATED TO THE PUBLISHED WORKS

**6** books for students published in Romania and **1** chapter in a book published abroad (indexed in international databases).

**>80** papers in reviews / conference proceedings, indexed in ISI Web of Science or/and IEEE Xplore.

**>50** papers published in other reviews and conference proceedings (part of them indexed in SCOPUS or/and Google Scholar).

#### REVIEWER FOR JOURNALS AND INTERNATIONAL CONFERENCES

##### Reviewer at international journals:

Transaction on Microwave Theory and Techniques – MTT; International Journal of Microwave and Wireless Technologies; PIER Journals.

##### Reviewer at international conferences:

European Microwave Conference in Central Europe (EuMCE 2019); International Semiconductor Conference; Communications Conference (COMM - Bucharest); Electronics, Computers and Artificial Intelligence (ECAI – Pitesti); Asia-Pacific Microwave Conference.

#### OTHER INFORMATION

- Member IEEE – MTT (Microwave Theory and Techniques), since 1996.  
Vice-chair of IEEE-MTT-Romania.
- UEFISCDI project evaluator.

Bucharest, April 2026