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PERSONAL INFORMATION

Curriculum Vitae - Cristian RAVARIU

Name: Cristian Ravariu

Str. Splaiul Independetei 313, sect.6, Bucharest, Romania

+404024840 (office)

// cristian.ravariu@upb.ro

Actual job: Full Professor at "Universitatea Politehnica din Bucuresti", Faculty of Electronics Telecommunications and Information Technology, Dept. of Devices Circuits and Architectures in Electronics (DCAE), BioNEC Group, Str. Splaiul Independentei 313, sect. 6, Bucharest, 060042, Leu sedium, Building B, office: B108, Phone: (office): +4021-4024840.
E-mail (actual job): cristian.ravariu@upb.ro

https://www.dcae.pub.ro/en/membri/12/ravariu_cristian/
https://www.researchgate.net/profile/Cristian_Ravariu

A detailed list of Publishings at: https://www.researchgate.net/profile/Cristian_Ravariu

WORK EXPERIENCE

May 2019–Present

IEEE Senior Member

Oct 2013–Present

Full Professor Dr. eng., Habilitated

"Politehnica" Univesity of Bucharest, Faculty of Electronics Telecommunications and Information Technology, Dept. of Devices Circuits and Architectures Electronics, 060042 Bucharest Romania
Habilitation domain: Nano-Bio-Engineering , Electronic Devices, Biosensors

Business or sector University and Research

Oct 2005–Sept 2013

Associated Professor Dr. ing.

Politehnica Univesity of Bucharest, Faculty of Electronics Telecommunications and Information Technology, Bucharest, Romania

Jan 2002–Sept 2005

Lecturer Dr. ing.

Politehnica Univesity of Bucharest, Faculty of Electronics Telecommunications and Information Technology, Bucharest, Romania

Jul 2001–Dec 2001

Assistent Dr. ing.

Politehnica Univesity of Bucharest, Faculty of Electronics Telecommunications and Information Technology, Bucharest (Romania)

Mar 1999–Jul 2001

Assistent ing.

Politehnica Univesity of Bucharest, Faculty of Electronics Telecommunications and Information Technology, Bucharest (Romania)

Apr 1996–Feb 1999

Scientific Researcher

National Institute of Research and Development for Microtechnology, Bucharest (Romania)
Str. Erou Iancu Nicolae no. 22A RO-030012 Bucharest (Romania) www.imt.ro

Jan 1994–Mar 1996

Assistent Researcher

National Institute of Research and Development for Microtechnology, Bucharest (Romania)

Sept 1993–Jan 1994

Debutant Researcher

National Institute of Research and Development for Microtechnology, Bucharest (Romania)

EDUCATION AND TRAINING

Jun 2010–Mar 2013

Post-Doc Studies

Politehnica University of Bucharest, Faculty of Electronics Telecommunications and Information Technology
Splaiul Independenţei 313, sect. 6, 060042 Bucharest (Romania)
www.pub.ro

POSDRU Excel nr. POSDRU/89/1.5/S/62557. Generalized SOI structures for nanotransistors and biostructures. Post-Doc Diploma.

Apr 1994–Jul 2001

PhD Studies

Politehnica University of Bucharest, Faculty of Electronics Telecommunications and Information Technology
Splaiul Independenţei 313, sect. 6 RO-060042 Bucharest (Romania)
www.pub.ro

Specialty of Micro-Electronics, under coordination of Acad. Prof. dr. eng. Adrian Rusu.

Thesis: *Integrated structures on insulated (SOI) substrate.*

Diploma:*Magna Cum Laudae* confers DOCTOR in Electronics and Telecommunication

Sep 1988–Jul 1993

Bachelor and Master Studies (Five years)

Politehnica University of Bucharest, Faculty of Electronics and Telecommunications
Splaiul Independenţei 313, sect. 6 RO-060042 Bucharest (Romania)
www.pub.ro

Diploma of engineer in Microelectronics (for 5 years).

1-9 Sept 2019

Foreign Specialty Stage

Invited Professor at EPFL, Laboratory of Nanodevices, EPFL, Lausanne, Switzerland. Theme: biosensors.

Oct 2012–Mar 2013

Foreign Specialty Stage

Laboratory of Analysis and Architecture of Systems LAAS-CNRS, Toulouse (France)
www.laas.fr

Theme: biosensors and organic electronic.

01Jun 2011–06 Jun 2011

Foreign Summer School in Bioelectronics

European Science Foundation ESF, S F Guixols (Spain)

Theme: B Cells and Protection

20 Aug 2006–25 Aug 2006

Foreign SINANO Specialty Stage in Nanoelectronics

University of Bologna – Arces, Bologna (Italy)

Specialty course SINANO, SImulation in NANOdevices, University of Bologna – Arces, Italia.

02 Jul 06–07 Jul 06

Foreign Specialty Stage in Bioelectronics

Dept. of Medical Physics, School of Medicine, University of Patras, Patras, Greece

Participant at 3rd Summer School on Emerging Technologies in Medicine, biosensors, biosignals, imagistics, Bio-MEMS, genomics, others; under coord. Prof. A. Bezerianos.

01 Jul 2003–30 Jul 2003

Foreign Specialty Stage in Micro-electronics, about SG-MOSFET

École Polytechnique Fédérale de Lausanne, EPFL, Lausanne, Switzerland

Theme: *Low power electrostatic silicon on sapphire RF switches for telecom application*.

IEEE ACTIONS

- 2008 - IEEE Member
- 2008 - Member at Bio-Medical Engineering Chapter.
- 2012 - 2019 - SSCS037 Romanian Chapter Chairman
- 2014 - present - Revitalizing Electron Device Society in Romania and EDS015 Romanian Current Chapter Chairman
- 2019 - present - Senior IEEE Member.
- 2020 - present - Member of the IEEE Romanian Council of Nanotechnology

PERSONAL SKILLS

Mother tongue: Romanian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	C2	B2	C1
French	A2	A2	B1	B1	A1
Italian	A1	A1	A2	A2	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference for Languages

Communication skills

- Team work skills, Seriousness in work, Communication skills (in all these years I worked in project teams, departments).
- Excellent abilities to teach: Electronic Devices, Nano-Bio-Electronics, Semiconductor Physics, Modelling of active Devices, Basic circuits or those discipline that I can update: Physics.
- I had the abilities to tech in French language the discipline Semiconductor Devices, in actual University (2005-2021)

Organisational / managerial skills

- Good leadership skills achieved as leader of a multi-partnership research team, gained from Romanian national projects as director of 7 projects.
- Member of the Board of the Faculty of Electronics Council from 2012-2019.
- Chairman of IEEE Romanian-Chapters: Electron Devices.
- Reviewer of Projects: (National 2015-2019), Rep. Moldova (2019), M-ERA-NET (2020).
- Reviewer of papers at different Journals (e.g. IEEE Trans on Electron Devices, etc).
- Editor for special issues at Biosensor (MDPI Journal).
- Director of his own small Company - SME EduSciArt SRL, theme of Science, Education and Art.

Job-related skills

Ability to publish papers, organize scientific meetings, connections with IEEE.

Computer skills	Silvaco software package (Athena-Atlas, Suprem, Medici). SPICE software: Spice 16.6-Cadence, LTSpice. Remote Learning during pandemy'2020: Team from Microsoft, Moodle Platform, Skype.
Strong points	- Excellent interface person between engineers group, physicians, biologists, physicists, chemists, technologists, especially in project of bioengineering, life sciences with engineers. - Ability to publish papers in peer-review Journals, papers to Conferences, Chapters, books together with a scientific group. - Excellent teaching skills for: MOS, Bipolar, JFET, other FETs, TFT, Tunnel-FET transistors, diodes, pn-junction and physics of semiconductors, nano-bio-devices, Athena Microelectronics simulation, Atlas device simulation. - Experience and opening to participate/propose/coordinate research projects. - Research connections among institutions. - Collaborations with Romania (e.g. Inst. of Microtechnology with clean room) and India (University JECRC, Jaipur, Digital Circuits) and future collaborations outside of Romania, in Western Europe.
Interests by this position	- Since 2013 reaching the lasts academic steps in Romanian University, with ResearchGate score of 32.

A detailed list of Publishings is available at: https://www.researchgate.net/profile/Cristian_Ravariu

I. Most relevant achievements in Teaching field

I.1. Maximum expertise field the following courses with adjacent seminaries, labs/projects:
- Bio-electronics and integrated biosensors (e.g for Master): Biosensor work principle and review, Bioscience: Bio-electronics - Biodevices - biosignals; biodetection in the living matter; cellular receptor; analytes, receptors integration, transducers, integrated Enzyme-FET Immuno-FET DNA-FET Microbial-FET, technological clues, resting and action potential at cell level.
- Nano-electronics (e.g for Master): Ultimate CMOS technological nodes in planar technology, future directions for CMOS integrated circuits. Nano-devices: Tunnel-FETs, Fin-FETs, GAA-FETs, Nano-wire-FETs, Vacuum nanotransistors, Carbon nanotubes-FETs, Thin Film Transistors TFT, Organic-TFT, Nano-core-shell-TFT, Single Electron Transistor SET, Silicon On Nothing SON-MOSFET, NOI.
- Simulation tools for Micro-Nano-electronics (for Master): Athena simulator for Si-wafers processing, Atlas device simulator.
- Physics of semiconductors (Bachelor studies): Energy diagrams, carriers - phenomena, models, current transport, non-equilibrium, models for recombination rates/mobillities system of equations for semiconductors, tunnelling thru thin gate oxides, impact ionization.
- Physics of liquids (preparing for biosensors and microfluidics): Water physics and chemistry, Aq. Solutions, Electrical Double Layer, Surface phenomena, Capillary effects, Static of fluids, Dynamic of fluids (Bernoulli), Charged molecules and hydrated ions, Nerst formalism, ionic current (Butler-Volmer, Diffusion currents), electrolytic cells, potentiometric and amperometric sensors.
- Active Electronic Devices (Bachelor studies): Devices presentation - microelectronic technology draft - specific physical phenomena - equations for static characteristics deduction - models - parameters - equivalent circuits of dynamic regime - biasing circuits - applications. This sequence is applied for the following devices: pn-junction, diodes, bipolar transistor (BJT), junction field effect transistor (JFET), metal-oxide-semiconductor transistor (MOS), silicon on insulator transistors (SOI).
- Models of the active components for Spice or a course of Devices Modelling (BJT - Ebers-Moll, MOS - Ihantola-Moll, Sub-threshold models, EKV, Theorem of Non Linear Electrical Conduction)

I.2. Average expertise for the following courses and adjacent applications, but with potential to self-preparing me fast if need.
- General bioengineering: Electrophysiological techniques (ECG, EEG, EMG, EGG, EOG), patch-clam technique, cells separation, bio-MEMS, viruses-cells-sensors, incursion inside cells, living matter modelling, introducing cellular biology.
- Microelectronic technology (oxidation, etching, diffusion, ions implantation, clean room processes, etc).

I.3. Books for students (in Romanian language)
In the detailed list of publications you can see that C. Ravariu published more than 8 books for students in Romanian languages. Few examples:
- Cristian Ravariu. Electronic Devices, pp. 1-326, Publisher: Printech Romania, 2004, ISBN 973-718-133-6.
- Cristian Ravariu. Electronics biodevices: from nanostructures to medical applications (in Romanian), I-st Edition, Publisher: Politehnica Press Publishing, Bucharest, Romania, pp. 1-242, ISBN: 978-606-515-071-3, 2010; Awarded book by the Romanian Academy with Tudor Tanasescu award in 2011.

- Florin Babarada, Cristian Ravariu. Technologies of fabrication for micro- and bio-sensors, pp. 1-258, Publisher: Editura Printech Romania, 2004, ISBN 973-718-119-0.

Additionally, C. Ravariu wrote Chapters in Books at International Press (Springer, InTech, others).

II. Research field

II.1. Main Bio-Engineering Research Contracts to which C. Ravariu worked

II.1.1. **C. Ravariu was Director of the Following National Romanian Projects**:

- Project title: "**BioFET transistors** for customized bioanalyses and cellular functions", (BIOFET) PNII Partnerships Complex Projects Program, commission 1 (Information and communication technology), UEFISCDI fund unit, 2008-2011, 5 Romanian Partners, ~ 250.000Eur.

- Project title: "Non-invasive technology for functional characterization of the **cellular beta-pancreatic mass** with unconventional electronic bio-devices", (ELECTROCELL) PNII Partnerships Complex Projects Program, commission 6 (**Biotechnologies**), UEFISCDI fund unit, 2008-2011, 4 Romanian Partners, ~ 220.000Eur.

- Project title: "**Nano-transistors** with thin films implemented through nanotechnologies and **organic** technologies at room temperature", (TFTNANOEL) PROGRAM PNIII: P4 - Fundamental and Frontier Research, UEFISCDI fund unit, 2017-2019, 1 Romanian Partner, ~ 200.000Eur.

- Project title: "Demonstrator realization in planar transistor technology with **tunneling of ultra-thin insulators** - as promoter of a series of **nano-devices** in industry", (DEMOTUN) PROGRAM PNIII: P2 - Increasing the competitiveness of the Romanian economy through research, development and innovation, PROJECT TYPE: Experimental-Demonstrative Project, UEFISCDI fund unit, 2017-2018, 2 Romanian Partners, ~ 120.000Eur.

- Other 3 Grants for Young Researchers, between 2000-2007, where C. Ravariu was Director.

II.1.2. Participant in National-International Projects with active role and topic on Bio-Nano-Engineering

- Project title: "New Innovative System for **Radiation Safety of Patients** Investigated by Radiological Imaging Methods based on Smart Cards", SRSPIRIM, comission 7 *PNII Parteneriate*, Director (Romania): Lidia Dobrescu. Participant: **Cristian Ravariu**, 2012-2015.
- Project title: “The method of differential **diagnosis of meningitis by determining the cytokine profile** using a rapid measurement device at the point of care (MEDICY) ”- project coordinating partner - Inst. Cantacuzino, UPB partner director - Prof. Dr. Ing. Florin BABARADA, Participant Prof. **Cristian Ravariu**. 2014 - 2016.

- Project title: "**Microstructures** of sensors and actuators for micropositioning and micromanipulation - mechanical and **biological**" - MEMSAS (Microgripper), ***CEEX Project,*** IMT-coord., UPB-partener, Director: Raluca Muller, Participant: **Cristian Ravariu**, 2006-2008.

- Project (Switzerland-Romania) title: "Low power electrostatic silicon on sapphire RF switches for telecom applications", code ESSOS, Wildhainweg 20, ***Swiss National Science Foundation***, Ecole Politehnique Federale de Lausanne and Universitatea Politehnica Bucuresti, Romania, Director: A. M. Ionescu (Switzerland), Participant: **C. Ravariu,** 2000-2003.

- Participant in other projects, non-relevant for this position.

II.2. Patents

- Inventors: **Cristian Ravariu**, “Field effect transistors with a cavity on insulator, NOI (Nothing On Insulator) and a-NOI (almost-Nothing On Insulator),” Romanian Patent Number: RO126811-A0, OSIM Romanian agency, awarded in Aug. 2013.

- Inventors: Florin Babarada, Elena Manea, **Cristian Ravariu**. "Process for manufacturing, on silicon, the devices for detecting and characterizing the electrically charged **biological molecules**," Patent Number(s)**:** RO126615-A2 ; RO126615-B1, OSIM Romanian agency, awarded in Nov 2015.

- Inventor and owner: **C. Ravariu**: "Transistors with p/n overlap films for **biomimetic** and industrial applications," Registered at OSIM Romanian Agency no. A/00021 / 12.01.2016, pass to decision stage in 2020.

- Inventors: **C. Ravariu**, F. Babarada, E. Manea, C. Parvulescu, title: "Manufacturing process of the versatile planar semiconductor device for testing the tunneling in **ultra-thin insulator**", OSIM Patent Filed: A00526 / 11-07-2018, Published in Apr. 2020 by OSIM.

- Inventors: **Cristian Ravariu** (Ro), Avireni Srinivasulu(India) , title: "Technology for integrated circuit design with low number of **NOI-MOS hybrid** devices," Owner: Universitatea Politehnica din Bucuresti - UPB Bucuresti, Romania, Priority Request for International Patenting, recorded A00813/17.10. 2018, title published in Apr. 2020, pass to examination stage in 2020.

II.3. Top Articles in Top Journals or Chapters in Books in Bio-Nano-Engineering field

- Ravariu, C.; Srinivasulu, A.; Mihaiescu, D.E.; Musala, S. Generalized Analytical Model for Enzymatic BioFET Transistors. *Biosensors* **2022**, *12*, 474. (Q1, IF=5.7) https://doi.org/10.3390/bios12070474

- B. Appasani, A. Srinivasulu, C. Ravariu. **A high Q terahertz metamaterial absorber using concentric elliptical ring resonators for harmful gas sensing applications,** July 2022 Defence Technology, Elsevier, (Q2, IF=4) pp.1-8. https://doi.org/10.1016/j.dt.2022.06.016

- Ravariu C, Parvulescu CC, Manea E, Tucureanu V. Optimized Technologies for Cointegration of MOS Transistor and Glucose Oxidase Enzyme on a Si-Wafer. *Biosensors* **2022**; vol. 11, no. 12, pp. 497. (Q1, IF=5.7) https://doi.org/10.3390/bios11120497.

- C. Ravariu, N. Jalaja, A. Srinivasulu. Modeling of the DNA viruses invasion by logic circuits with finite states. Advanced Nano-Bio-Materials and Devices; 2021:5(2):666-673.

- H. Gupta, P. Kumar, S Saurabh, S Kumar Mishra, B Appasani, C Ravariu, A Srinivasulu, Category Boosting Machine Learning Algorithm For Breast Cancer Prediction, *Rev. Roum. Sci. Techn.– Électrotechn. et Énerg.* Vol. **66**, *3*, pp. 201–206, 2021.

- **C. Ravariu**, E. Manea, F. Babarada, Masks and metallic electrodes compounds for **silicon biosensor integration**, *Journal of Alloys and Compounds* (Q1-Elsevier Journal), vol. 697, pp. 72-79, March 2017, http://dx.doi.org/10.1016/j.jallcom.2016.12.099

- **C. Ravariu**, C. Pârvulescu, E. Manea, A. Dinescu, R. Gavrila, M. Purica, Vijay Arora. Manufacturing of a Nothing On Insulator Nano-Structure with two Cr/Au Nanowires Separated by 18 nm Air Gap. *Nanotechnology, (Q1-IOP Journal),* vol. 31, no. 27, pp.1-9, 2020. https://dx.doi.org/10.1088/1361-6528/ab7c45

- **C. Ravariu**, D. Istrati, D. Mihaiescu, A. Morosan, B. Purcareanu, R. Cristescu, R. Trusca, B. Vasile. Solution for green organic thin film transistors: Fe_3O_4 nano-core with **PABA external shell as p-type film**. *Journal of Materials Science - Materials in Electronics (Q2-Springer Journal),* vol. 31, no.4, pp. 3063-3073, Jan 2020. https://doi.org/10.1007/s10854-019-02851-3

- **C. Ravariu**, Ala Bondarciuc. The sensitivity in the IR spectrum of the intact and pathological tissues by laser bio-photometry, *Laser in Medical Science, (Q2-Springer Journal),* March 2014, Vol 29, Issue 2, pp 581-588.

- C. Ravariu, Vacuum **nano-triode in Nothing-On-Insulator** configuration working in Terahertz domain, *IEEE Journal of the Electron Devices Society, (Q2-IEEE Journal),* vol. 6, no. 1, 2018, pp. 1115-1123, DOI 10.1109/JEDS.2018.2868465.

- **C. Ravariu**, Gate Swing Improving for the Nothing On Insulator Transistor in Weak Tunneling, *IEEE Transactions on Nanotechnology (Q2-IEEE Journal),* 2017, vol. 16, no. 6, pp. 1115 - 1121, DOI: 10.1109/TNANO.2017.2764802.

- **C. Ravariu**, Deeper Insights of the Conduction Mechanisms in a Vacuum SOI Nanotransistor, *IEEE Transactions on Electron Devices Q1-IEEE Journal)*, vol. 63, no. 8, 2016, pp. 3278 - 3283, DOI: 10.1109/TED.2016.2580180.

- **C. Ravariu**, Compact NOI Nano-Device Simulation. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems (Q2-IEEE Journal),* vol. 22, issue 8, Aug 2014, pp. 1841 - 1844, DOI:10.1109/TVLSI.2013.2278474

- **C. Ravariu**, E. Manea, A. Popescu, C. Podaru, C. Parvulescu, Micro-Technological Steps During the Fabrication of an AcHE Biosensor Designated to the Environment Monitoring, *American Journal of Bioscience and Bioengineering,* vol. 3, issue 3-1, pp. 1-6, 2015, DOI: 10.11648/j.bio.s.2015030301.11.

- **C. Ravariu**, A. Rusu, F. Udrea, F. Ravariu. Simulation results of some Diamond On Insulator nano-MISFETs, *Diamond and Related Materials (Q2-Elsevier Journal),* vol.15, nr.2, pp.777-782, 2006, DOI: 10.1016/j.diamond.2005.11.050.

- Ravariu C., Manea E., Babarada F., Ursutiu D., Mihaiescu D., Popescu A., "Organic Compounds Integrated on Nanostructured Materials for Biomedical Applications", Chapter 2 at section Biomedical Engineering in the book: Smart Industry & Smart Education. Editors: Auer M., Langmann R., Series - Lecture Notes in Networks and Systems, vol 47. Springer, Cham, 2019, pp 489-497. https://link.springer.com/chapter/10.1007/978-3-319-95678-7_55.

- Ravariu C., et al. (2020) PV Microgrids Efficiency: From Nanomaterials and Semiconductor Polymer Technologies for PV Cells to Global MPPT Control for PV Arrays. Chapter In: Mahdavi Tabatabaei N., Kabalci E., Bizon N. (eds) Microgrid Architectures, Control and Protection Methods. Power Systems. Springer, Cham. Available at: *https://link.springer.com/book/10.1007%2F978-3-030-23723-3*

- C. Ravariu, Dan Eduard Mihaiescu, Green Electronics starting from Nanotechnologies and Organic semiconductors, Chapter 1 in Book: Green Electronics, In-Tech Publisher House, with Editors: Cristian Ravariu & Dan E. Mihaiescu, Published June 20, 2018, ISBN: 978-1-78923-304-9, pp. 3-13, *DOI: 10.5772/intechopen.71456.*

- A. Topor, **C. Ravariu,** F. Babarada, A. Salageanu, I. Caras, B. Patrichi, Mobile Electronic Device And Integrated Software For Citokines Fluorescence Detection, Chapter 6-th in Book: New trends on monitoring and diagnosis for health sciences, Editors Mihaela Badea, Laura Floroian, published by LAMBERT Academic Publishing, trademark of OmniScriptum GmbH & Co. KG, Germany, ISBN 978-3-659-77699-1, pp. 95-112, 2015.

- **C. Ravariu**, D. Mihaiescu, *Static and dynamic aspects of different tunnelling NOI nanotransistors with oxide and vacuum*, in Proceedings of

IEEE European Conference on Electrical Engineering and Computer Science, Bern, Switzerland, 17-19 Nov. 2017, pp. pp. 441–444. WOS:000455867600079. **DOI:** 10.1109/EECS.2017.87

- **C. Ravariu**, C. Ionescu-Tirgoviste, F. Ravariu. *Glucose biofuels properties in the bloodstream in conjunction with the beta cell electro-physiology*, Proceedings of 2-nd IEEE International Conference on Clean Electrical Power Conference, Jun. 09-11. 2009, Capri, Italy, pp. 124-127, DOI: 10.1109/ICCEP.2009.5212071, WOS:000275735500020 (cited 12 times).

A detailed list of Publishings is available at: https://www.researchgate.net/profile/Cristian_Ravariu

III. Annex with relevant scientific results

III. Relevant contributions

III.1. Inventor of the NOI (Nothing On Insulator) transistor. In collaboration with Institute of Microtechnology-Bucharest, we fabricated a planar p-NOI variant and a NOI-MIM with Metal-Insulator-Metal non-planar variant.
III.2. Acitivity of C. Ravariu with IEEE; Membership and Chairman of 2 Chapters.
IEEE Member no 90382147 from 2008. Affiliation to Engineering Medicine and Biology Organization in 2008, Electron Device Society in 2008. Since 2011 member and Chairman of Solid-State Circuits Society till 2020. Since 2014 C. Ravariu has revitalized the Romanian IEEE EDS-15 Chapter and becomes Chairman. Since 2019 C. Ravariu was admitted as IEEE Senior Member.

III.3. Special actions with IEEE

Few DL (Distinguished Lecturers) invitation at Romanian SSCS-037 Chapter: Prof. Sorin Voinigescu - Univ. of Toronto Canada (in 2017), Prof. Farid Temcamani - ENSEA, CERGY, FRANCE (in 2015), Jose Carlos Pedro - AVEIRO, PORTUGAL (in 2015), Prof. Avireni Srinivasulu - from JECRC University, India (in 2018), Prof. Adrian M. Ionescu from EPFL Switzerland (2018).

SSCS Workshop: Workshop on Solid State Circuits - Design, Technology and Applications - IEEE SSC-DTA'2016
Oct. 19-21, 2016, Bucharest, Romania with Key speakers from DL list: Prof. Tony Chan Carusone, from University of Toronto Canada, Prof. Marian Verhelst, from KU Leuven, Belgium, Ing. Cristina Gorciu from Infineon Bucharest, Dr ing. Cristian Andriesei, Iasi, Romania.

Colloquimum IEEE EDS with Prof Arora, USA. around the talk: Nanoelectronics: Milestones Arising from CMOS 5nm Node and Beyond CMOS Design Process from 20th to 21st Century

Prof. dr. ing. Cristian Ravariu