



## Curriculum vitae Europass

### Personal information

Name / First name **Stoica, Victor**  
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E-mail [victor.stoica@icpe-ca.ro](mailto:victor.stoica@icpe-ca.ro)  
Nationality Romanian  
Birth date 18.12.1979  
Gender Male

### Preferred job / Work field **Scientific researcher**

### Professional experience

Period Nov 2015 – present  
Occupation or position held Scientific researcher III (CS III)  
Main activities and responsibilities Study, design and testing conventional and superconducting electrical machines; inventions and patents  
Employer INCDIE ICPE CA  
Type of business or sector Research – Development

Period Jan 2006 – Oct 2015  
Occupation or position held Scientific research Asistent  
Main activities and responsibilities Study, design and testing electrical machines and electromagnetic and piezoelectric actuators  
Employer INCDIE ICPE CA  
Type of business or sector Research – Development

### Education and training

Period Oct 2012 – May 2017  
Qualification / Diploma PhD in Electrical engineering  
Disciplines studied / competences acquired Superconductivity, Electrical machines  
Name and type of educational institution Faculty of Electrical Engineering, UPB

Period Oct 2005 – Jun 2007  
Qualification / Diploma Master Degree in Electrical engineering  
Disciplines studied / competences acquired Electrical machines, Magnetism  
Name and type of educational institution Faculty of Electrical Engineering, UPB

Period Oct 1998 – Jun 2005  
Qualification / Diploma Electrical Engineer Bachelor Degree

Disciplines studied / competences acquired | Electrical Engineering / Electrical Machines / Electric Measurements

Name and type of educational institution | Faculty of Electrical Engineering, UPB

**Personal skills**

Mother tongue | **Romanian**

Other languages | **English**

Autoevaluation

European level (\*)

**English language**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	avansat	C1	avansat	C1	avansat	C1	avansat	C1	avansat

(\*) [Nivelul Cadrului European Comun de Referință Pentru Limbi Străine](#)

Communication skills | Team spirit, concise, punctual

Technical skills | Electrical engineering tests and experiments

Computer skills | Microsoft Office, Microsoft Windows, Internet Explorer, Chrome, Mozilla Firefox, FEMM, AutoCAD

Other skills | Organizational skills; Project Management Course  
Theme responsible of the project NUCLEU 5201 / 2009

Driver's licence | No

**Additional information** | **Scientific activities**

Project	Degree	Project title	Financer	Period
<b>NATIONAL PROJECTS</b>				
NUCLEU 5201/2009	Theme responsible	Surse noi de energie Conversie si recuperare	ANCS	2009 – 2011

## Scientific activities – relevant papers in the field (last 5 years)

### ISI articles

1. Paun, C., Obreja, C., Comanescu, F., Tucureanu, V., Tutunaru, O., Romanitan, C., Ionescu, O., Gavrilă, D.E., Manescu Paltanea, V., **Stoica, V.**, Paltanea, G., „Studies on structural MWCNT/epoxy nanocomposites for EMI shielding applications”, IOP Conference Series: Materials Science and Engineering, Volume 1009, Issue 1, 15 January 2021, Article number 012046.
2. L. Pîslaru-Dănescu, A. M. Morega, **V. Stoica**, M. Morega, and I. Dobrin, "A New Electronic Active System for Protection to Quench Hazard in High Temperature Superconducting Coils", 9<sup>th</sup> International Symposium on Advanced Topics in Electrical Engineering, ATEE 2015, 7-9 May 2015, Bucharest, Romania, Proceedings of the International Symposium on Advanced Topics in Electrical Engineering (ATEE 2015), pp. 692-697, **ISBN**: 978-1-4799-7514-3, **ISSN**: 2068-7966.
3. Alexandru Morega, Ion Dobrin, Mihaela Morega, Adrian Nedelcu, **Victor Stoica**, „Proiectare și simulare numerică a unui electromagnet supraconductor dipolar, răcit prin conductie”, Proceedings of the 9th International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING (ATEE 2015), MAY 7-9, 2015, Bucharest, Romania, ISBN 978-1-4799-7514-3, ISSN 2068-7966, pp. 79 - 83, DOI: 10.1109/ATEE.2015.7133680.
4. Lucian Pîslaru-Dănescu, Alexandru M. Morega, Mihaela Morega, **Victor Stoica**, Oana Maria Marinică, Florica Nouras, Nicolae Păduraru, István Borbáth, and Tünde Borbáth, "Prototyping a Ferrofluid-Cooled Transformer", IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, Volume: 49, Issue: 3, pp. 1289-1298, Published: MAY-JUN 2013, **ISSN**: 0093-9994.
5. L. Pîslaru-Dănescu, A. M. Morega, M. Morega, **V. Stoica**, "New Concept of Measurement Apparatus for the in situ Electrical Resistivity of Concrete Structures", 8<sup>th</sup> International Symposium on Advanced Topics in Electrical Engineering, ATEE 2013, 23-25 May 2013, Bucharest, Romania, Proceedings of the International Symposium on Advanced Topics in Electrical Engineering (ATEE 2013), pp. 1-6, **Print ISBN**: 978-1-4673-5979-5, **E-ISBN**: 978-1-4673-5980-1, **ISSN**: 2068-7966.
6. Morega AM, Morega M, Dumitru JB, Pîslaru-Dănescu L, **Stoica V**, "Magnetic and Electric Sizing of a Miniature Planar Spiral Transformer", International Conference and Exposition on Electrical and Power Engineering, EPE 2012, OCT 25-27, Iasi, ROMANIA, PROCEEDINGS OF THE 2012 INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE 2012), pp. 654-659, Published: 2012, **ISBN**: 978-1-4673-1172-4, **Print ISBN**: 978-1-4673-1173-1.
7. L. PISLARU-DANESCU, A. MOREGA, G. TELIPAN, **V. STOICA**, "Nanoparticles of ferrofluid Fe<sub>3</sub>O<sub>4</sub> synthesised by coprecipitation method used in microactuation process", OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS, Vol. 4, No. 8, August 2010, pp. 1182 – 1186, **ISSN**: 1842-6573.
8. A.M. Morega, M. Morega, L. Pîslaru-Dănescu, **V. Stoica**, F. Nouras, F.D. Stoian, "A Novel, Ferrofluid-Cooled Transformer. Electromagnetic Field and Heat Transfer by Numerical Simulation", 12<sup>th</sup> International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2010, 20-22 May, Brasov, Romania, Proceedings of the International Conference on Optimisation of Electrical and Electronic Equipment (OPTIM 2010), art. No. 5510425, pp. 140-146, **ISSN**: 1842-0133, **Print ISBN**: 978-1-4244-7019-8.

#### Articles/studies published in BDI indexed publications

1. **STOICA V.**, MARIN D., "The Hydro Plants as Optimal Solution for Efficient Conversion Energy in Black Sea Environmental Conditions", in *Electrotehnica, Electronica, Automatica (EEA)*, 2020, vol. 68, no. 4, pp. 19-29, ISSN 1582-5175.
2. Gabriela IOSIF, Iulian IORDACHE, **Victor STOICA**, Ana Maria LUCHIAN, Emil COSTEA, George SUCIU, Victor SUCIU, „Achieving a More Electric Aircraft: a comparative study between the concurrent and traditional engineering models”, *INCAS BULLETIN*, Vol. 10, Nr. 1, 2018, ISSN 2066–8201.
3. **Stoica V.**, Marin D., Chihai R., "Electric Propulsion System for Light Vehicles", *Electrotehnica, Electronica, Automatica (EEA)*, 2018, vol. 66, no. 1, pp. 36 – 40, ISSN 1582 – 5175.
4. **Victor Stoica**, Ion Dobrin, Simona Apostol, Adrian Nedelcu, "HTS Superconducting Coils for Applications in Electrical Engineering", *Buletin stiintific UPB, Seria C*, Vol. 78, nr. 2, ISSN 2286-3540, 2016.
5. Pislaru-Danescu, L., Ignat, M., Puflea, I., **Stoica, V.**, „The determination of the total magnetic losses in the stator of the asynchronous electrical micromachines fed with pulse width modulation, PWM, and with triangular waveforms, respectively”, *Proceedings of the 2008 International Conference on Electrical Machines, ICEM'08*, art. no. 4800072, DOI: 10.1109/ICELMACH.2008.4800072.

#### Articles/studies published in national publication of scientific events

1. Ion DOBRIN, Lucian PISLARU-DĂNESCU, **Victor STOICA**, "Superconducting Synchronous Motor Electric Drive", revista *ELECTROTEHNICĂ, ELECTRONICĂ, AUTOMATICĂ*, vol. 60 (2012), no. 1, ianuarie – martie 2012, pg. 25 – 31.
2. Lucian PISLARU-DANESCU, **Victor STOICA**, Fabian NECULAE, „Instalatie automatizata de afumare a produselor din carne crud uscate”, *AUTOMATIZARI SI INSTRUMENTATIE*, No. 2., 2011, pp. 14-15, ISSN 1582-3334.
3. **Victor STOICA**, Lucian PÎSLARU-DĂNESCU, Ion DOBRIN, "Innovative Solutions of Making a Permanent Magnet Superconducting Electric Generator", *EEA (ELECTROTEHNICĂ, ELECTRONICĂ, AUTOMATICĂ)*, Vol. 63, nr. 2, aprilie – iunie 2015, pp. 95-101, ISSN: 1582–5175.

#### Awarded patents:

- B 1. Patent No.: 128881/2014, "Instalatie pentru protectia activă a bobinei supraconductoare la motoare supraconductoare", Autori: Pislaru-Dănescu Lucian, Dobrin Ion, **Stoica Victor**, Lipan Laurentiu Constantin, Pisciă Ioana.
- B 2. Patent No.: 128865/2014, „Senzor piezoelectric de masurare a viscozitatii dinamice si circuit de masurare”, Autori: Pislaru-Dănescu Lucian, Pinteana Jana, Dumitru Alina Iulia, **Stoica Victor**, Oprina Gabriela, Băbutanu Corina Alice, Lipan Laurentiu Constantin, Pisciă Ioana.
- B 3. Patent No.: 122509/2008, "Generator de puls electromagnetic", Inventatori: Ignat Mircea, Zarnescu George Claudiu, Pislaru Danescu Lucian, Macamete Elena, Soltan Sebastian, **Stoica Victor**, Puflea Ioan.

#### Patent applications:

1. Patent application No. A/00869/2017, „Recuperarea energiei termice degajate in procesul de franare al unui trolu de foraj apartinand unei instalatii de sapat sonde de titei si gaze naturale”, autori: Dobre Adrian, **Stoica Victor**, Marin Marcel Dorian.
2. Patent application No. A/00373/2016, „Ansamblu magnetic supraconductor pentru masurarea momentelor magnetice”, autori: Ion Dobrin, Simona Emilia Apostol, Iuliu Romeo Popovici, Andrei Dobrin, Dan Enache, **Victor Stoica**.
3. Patent application No. A/01024/2013, „Generator electric supraconductor”, autori: Ion Dobrin, Lucian Pislaru – Danescu, Iuliu Popovici, **Victor Stoica**, Adrian Nedelcu, Nicolae Tanase.
4. Patent application No. A 2011 01270, „Ansamblu magnetic supraconductor quadripolar”, autori: Ion Dobrin, Adrian Nedelcu, Ionel Chirita, Lucian Pislaru – Danescu, **Victor Stoica**.
5. Patent application No. a 2012 00352, „Generator supraconductor de camp magnetic intens”, autori: Ion Dobrin, Adrian Nedelcu, **Victor Stoica**, Nicolae Tanase, Daniel – Vasile Dan.

### Awards

1. Diploma de Excelență și Medalie de Aur, la Salonul Internațional al Cercetării, inovării și invenției PRO INVENT Cluj Napoca 2017, se acorda pentru invenția *Generator electric supraconductor*, autori: Dobrin Ion, Pislaru Danescu Lucian, Popovici Iuliu, **Stoica Victor**, Nedelcu Adrian, Tanase Nicolae.
2. Medalie de Aur la Salonul Internațional de Invenții - Barcelona 2017, pentru invenția *Generator electric supraconductor*, autori: Dobrin Ion, Pislaru – Danescu Lucian, Popovici Iuliu, **Stoica Victor**, Nedelcu Adrian, Tanase Nicolae.
3. Diploma de apreciere se acorda invenției cu titlul „Generator electric supraconductor” cu ocazia participării la Bursa Nationala a Invențiilor romanesti 2017, autori: Dobrin Ion, Pislaru – Danescu Lucian, Popovici Iuliu Romeo, **Stoica Victor**, Nedelcu Adrian, Tanase Nicolae.
4. Medalie de AUR, la a 16-a ediție a Salonului de invenții și inovații INVENTIKA, 15-18 OCTOMBRIE 2014, București, România, pentru brevetul: «Generator supraconductor de câmp magnetic intens», autori: DOBRIN Ion, NEDELICU Adrian, **STOICA Victor**, TĂNASE Nicolae, DAN Daniel-Vasile.
5. Medalie de ARGINT: THE BELGIAN AND INTERNATIONAL TRADE FAIR FOR TECHNOLOGICAL INNOVATION, Eureka!, BRUSSELS, 2014, pentru brevetul: «High magnetic field superconducting generator», autori: Dobrin Ion, Nedelcu Adrian, **Stoica Victor**, Tănase Nicolae, Dan Daniel-Vasile.
6. Diplomă de Excelență și Medalie de Aur la Salonul Internațional de Invenții PRO INVENT Cluj Napoca 2015, pentru invenția “Generator supraconductor de câmp magnetic intens”, autori: Ion Dobrin, **Victor Stoica**, Nicolae Tănase, Daniel-Vasile Dan.
7. Medalie de Bronz la Salonul Internațional de Invenții - Geneva 2015, pentru invenția “Générateur supraconducteur de champ magnétique”, autori: DOBRIN Ion, NEDELICU Adrian, **STOICA Victor**, TĂNASE Nicolae, DAN Daniel-Vasile.
8. Medalia de BRONZ la Salonul International de Inventii de la GENEVA, ELVETIA, 04 aprilie 2014, pentru brevetul: «Installation de protection active de la bobine supraconductrice dans les moteurs», autori: Pislaru-Dănescu Lucian, Dobrin Ion, **Stoica Victor**, Lipan Laurentiu Constantin, Pisciă Ioana.
9. Medalia de ARGINT la al 12<sup>th</sup> Salon International de Inventii ARCA – 2014, ZAGREB, CROATIA, OCTOMBRIE, 2014, pentru brevetul: «The plant for active protection of superconducting coil at superconducting motors», autori: Pislaru-Dănescu Lucian, Dobrin Ion, **Stoica Victor**, Lipan Laurentiu Constantin, Pisciă Ioana.
10. Medalia de ARGINT, la a 16-a editie a salonului de inventii si inovatii INVENTIKA, 15-18 OCTOMBRIE 2014, Bucuresti, Romania pentru brevetul: «Instalatie pentru protectia activa a bobinei supraconductoare la motoare supraconductoare», autori: Pislaru-Dănescu Lucian, Dobrin Ion, **Stoica Victor**, Lipan Laurentiu Constantin, Pisciă Ioana.
11. Medalie de argint: SALONUL INTERNATIONAL DE INVENTICA PRO INVENT, editia a VI-a, 2008, Cluj – Napoca, pentru: Grup de inventii.
12. Medalie de argint: Eureka, 24 November, 2007, THE BELGIAN AND INTERNATIONAL TRADE FAIR FOR TECHNOLOGICAL INNOVATION, PENTRU INOVATIA: “Pulse electromagnetic generator with an concentration field”, Autori: Ignat Mircea, Zarnescu George, Paslaru Dan, Macamete Elena, Zoltan Sebastian, **Stoica Victor**, Puflea Ioan.
13. Medalie de argint: INVENTIKA, 2-6 octombrie 2007, Bucuresti, Romania, pentru lucrarea: “Generator de puls electromagnetic cu concentrator de camp”, Autori: Ignat Mircea, Zarnescu George, Paslaru Dan, Macamete Elena, Zoltan Sebastian, **Stoica Victor**, Puflea Ioan;
14. Medalie de argint: SALONUL INTERNATIONAL DE INVENTICA PRO INVENT, editia a VI-a, 2008, Cluj – Napoca, pentru: Grup de inventii.

### Books:

1. Mircea IGNAT, Lucian PASLARU – DANESCU, Ioan PUFLEA, George ZARNESCU, **Victor STOICA**, Laurentiu CATANESCU, “ACTUATORI ELECTROMAGNETICI”, Editura Electra, 2008, ISBN 978-606-507-015-8.