

OLEKSANDR BONDARENKO
Candidate for IEEE Ukraine Section
PE/IA/IE Societies Joint Chapter Chairperson



BIOGRAPHY

Oleksandr Bondarenko (M'11-SM'19) received his B.Sc. degree in 2002 and Dipl.-Ing. in 2003 in Electrical and Electronics Engineering with honors from Donbas Mining and Metallurgical Institute, Alchevsk, Ukraine. He defended his Ph.D. thesis on Power Converters for Small Scale Resistance Welding in 2008. He is currently an Associate Professor with the Department of Electronic Devices and Systems and a Head of Research Laboratory of Power Electronics in Research Institute of Electronics and Microsystems, Igor Sikorsky Kyiv Polytechnic Institute, Kyiv, Ukraine. Previously he has been a Lab Assistant, an Assistant Professor, a Lecturer, and an Associate Professor with Donbas State Technical University, Alchevsk, Ukraine. In 2016-2019 he was a Visiting Associate Professor with Wrocław University of Science and Technology, Wrocław, Poland. His scientific interests include Electrical and Electronic Engineering, Resistance Welding, Electrotechnology.
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IEEE ACTIVITIES

SECTIONS/CHAPTERS:

- Nomination Committee Chair of IEEE Ukraine Section PE/IE/IA Societies Joint Chapter in 2018.

CONFERENCES:

- Local Committee Chairperson 2016 of IEEE co-sponsored International Conference on Intelligent Energy and Power Systems (IEPS);
- Technical Program Committee Member of IEEE co-sponsored International Conference on Electronics and Information Technology (EIT'2016);
- Reviewer of IEEE co-sponsored International Conference on Intelligent Energy and Power Systems (IEPS'2016, 2020);
- Reviewer of IEEE co-sponsored International Conference on Electronics and Information Technology (EIT'2016);
- Reviewer of IEEE co-sponsored Compatibility and Power Electronics (CPE'2011-2013);
- Reviewer of IEEE co-sponsored International Conference on Power Engineering, Energy and Electrical Drives (POWERENG'2015);
- Reviewer of IEEE co-sponsored International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG'2016-2020);
- Reviewer of IEEE International Conference on Electronics and Nanotechnology (ELNANO'2016,2018-2020);
- Reviewer of IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON'2017);
- Reviewer of IEEE co-sponsored Baltic Electronics Conference (BEC'2016, 2018);
- Reviewer of IEEE co-sponsored International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON'2015-2016);
- Reviewer of the Annual Conference of the IEEE Industrial Electronics Society (IECON'2019-2020);
- Reviewer of IEEE International Symposium on Industrial Electronics (ISIE'2017);
- and others.

OTHER:

- IEEE Member (from 2011);
- IEEE Senior Member (from 2019);
- IEEE Ukraine Section member (from 2011);

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- IEEE Ukraine Section IE/PE/PEL Joint Chapter member (from 2011);
- IEEE Ukraine Section PE/IA/IE Joint Chapter member (from 2015);
- IEEE Industrial Electronics Society member (2011, 2013, 2015-2020);
- IEEE Power Electronics Society member (2016-2017, 2020);
- IEEE Power & Energy Society member (2016-2017);
- IEEE Industry Applications Society member (2016-2017);
- IEEE Signal Processing Society member (2015);
- IEEE Council on Electronic Design Automation member (2014-2015);
- IEEE Biometrics Council member (2015);
- IEEE Nanotechnology Council member (2015);
- IEEE Sensors Council member (2014-2015);
- IEEE Systems Council member (2014-2015).

QUALIFICATIONS

Oleksandr Bondarenko has strong experience in scientific and organizational work. He was the supervisor of two candidates for a Ph.D. degree. One of them is Ievgen Iermolenko "Methods and Devices to Improve the Efficiency of Computer Systems for Measuring the Current-Voltage Characteristics of Semiconductor Devices" (2014), and another one is Viktor Didenko "Power Converter Control in Electro-Hydraulic Drive Using Acceleration Signals" (2017). He is a supervisor of 16 MSc Theses from 2009 to 2020. He is currently a Head of the Research Laboratory of Power Electronics that includes a Student research lab (more than 30 students during 2005-currently). He is a Supervisor and Principal investigator of R&D projects (8 projects during 2010-currently).

Oleksandr Bondarenko is Editor-in-chief of the Scientific and technical journal "Technology and design in electronic equipment", Odesa, Ukraine, and a reviewer of numerous international conferences and scientific journals (CPE-POWERENG, IECON, ELNANO, IEEE Open Journal of the Industrial Electronics Society, etc.).

MAJOR ACCOMPLISHMENTS

Oleksandr Bondarenko is an IEEE Senior Member from 2019. In 2016 he was a Local Committee Chairperson and successfully organized all events of the IEEE co-sponsored International Conference on Intelligent Energy and Power Systems (IEPS'2016). He has published more than 100 scientific works including 5 patents for inventions. He was a Project Supervisor of three IEEE Student Application Papers Implementing Industry Standards "Acceleration Sensor Signal Based PWM Converter Control in Mold Oscillation Waveform Formation System" (2016), "Method for improving EMC of small scale resistance spot welding equipment" (2016-17), "Thermal and Surge Current Protection Means for Semiconductor Power Non-Isolate Converters" (2017). He was awarded a Diploma of the winner of the Ukrainian contest "Invention - 2007" in the category "Best Invention in electronics and communication systems" (2007), Diploma of the winner of the regional contest of Young Scientists (2009), Diploma of the National Academy of Sciences of Ukraine for scientific work (2011), The Cabinet of Ministers of Ukraine Scholarship (2006-2007, 2012-2014), The Igor Sikorsky Kyiv Polytechnic Institute Scholarship "Young teacher-researcher" (2016).

POSITION STATEMENT

As an IEEE Ukraine Section PE/IA/IE Societies Joint Chapter Chairperson, I intend to focus on establishing cooperation between IEEE members in universities and scientific institutions, organizing lectures by famous scientists of Power Electronics in Ukraine. I'm planning to take part in arranging conferences under the aegis of the IEEE society and to contribute to their popularization.