

by Roman L. Gorbunov, Gennady S. Zinoviev, Nikita A. Sevostyanov, and Sergey A. Kharitonov

Joint IEEE IES/IAS/PELS Russia (Siberia) Chapter Organized a Technical Session

The members of the Joint IEEE Industrial Electronics Society/Industry Applications Society/Power Electronics Society (IES/IAS/PELS) Chapter and student members of the PEELS Student Branch Chapter (SBC) at the Novosibirsk State Technical University (NSTU) participated in the 21st International Conference of Young Specialists on Micro/Nanotechnologies and Electron Devices (EDM) which was held from 29 June to 3 July



FIG 1 The board members of the joint IEEE IES/IAS/PELS Russia (Siberia) Chapter (from left): Vice-Chair Gennady S. Zinoviev, Chair Sergey A. Kharitonov, and Secretary Roman L. Gorbunov.

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An advertisement for PCIM Europe. The background is a gradient of blue and green. On the left, there is a large, stylized blue wavy graphic. On the right, there is a green 3D cube. The text is as follows:

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2020 at the NTSU in Novosibirsk, Russia. The Power Electronics and Power Engineering section of the conference was organized by the board members of the Joint IEEE IES/IAS/PELS Chapter: Chair Dr. Sergey A. Kharitonov, Vice-Chair Dr. Gennady S. Zinoviev, and Secretaries Dr. Roman L. Gorbunov (Figure 1) and Nikita A. Sevostyanov.

This year, the Power Electronics and Power Engineering section had the second-highest number of attendees. Young researchers from academia and industry presented technical papers that responded to contemporary and potential future issues connected to power and industrial electronics, such as wireless power transfer, control of ac and dc microgrids, energy storage systems, multiport and multilevel converters, and spacecraft power systems. The

attendees particularly focused on applications of wide-bandgap semiconductors, state-of-the-art power converters, and advanced control strategies for centralized and distributed grids. All attendees agreed that the intensive development and integration of power electronics with smart energy facilities in Russia over the past three years have resulted in the increased efficiency, flexibility, and reliability of Russian power engineering infrastructure.

Due to the pandemic, the technical sessions were open access and held online. This allowed researchers from Russia, Estonia, Lithuania, Kazakhstan, Vietnam, and Iran to attend the event. Dr. Zinoviev made a comment that the “new challenges we face now were easily overcome by the use of modern technologies and this new experience will prove to be

highly valuable for our future technical events.” At the final meeting, Dr. Kharitonov concluded that the technological feat of arranging the virtual conference made by the organizing committee was remarkable.

The EDM conference is organized annually by the IEEE Russia (Siberia) Section and the Electronics and Electrical Engineering Department of NSTU. It comprises of seven topics that cover a variety of subjects about electron devices and their applications, including power and industrial electronics, power engineering, radio technology, microwave technology, telecommunications, sonic and ultrasound devices, and medical and optical electronics. This unique multidisciplinary integration and focus on student members at the conference facilitates the development of young researchers.



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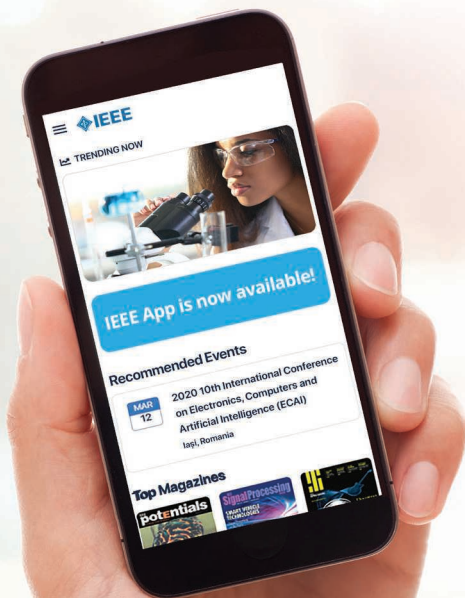
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