

### **Bidirectional soft switching current source DC-DC converter for residential DC microgrids**

**Blinov, Andrei; Kosenko, Roman; Chub, Andrii; Vinnikov, Dmitri** IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 6059-6064 : ill <https://doi.org/10.1109/IECON.2018.8591103>

### **Buck-boost unfolder inverter as a novel solution for single-phase PV systems**

**Husev, Oleksandr; Matiushkin, Oleksandr; Vinnikov, Dmitri; Roncero, Carlos; Romero-Cadaval, Enrique; Kütt, Lauri** IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 6116-6121 : ill <https://doi.org/10.1109/IECON.2018.8592899>

### **Design of multiphase single-switch impedance-source converters**

**Chub, Andrii; Vinnikov, Dmitri; Liivik, Liisa; Jalakas, Tanel; Blinov, Andrei** IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 3718-3724 : ill <https://doi.org/10.1109/IECON.2018.8591361>

### **Digital control strategy for interleaved quasi-Z-source inverter with active power decoupling**

**Stepenko, Serhii; Husev, Oleksandr; Pires Pimentel, Sergio; Vinnikov, Dmitri; Roncero-Clemente, Carlos; Makovenko, Elena** IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 3725-3730 : ill

### **IoT-based senses for virtual enterprises**

Mahmoodpour, Mehdi; **Mahmood, Kashif**; Lobov, Andrei IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 4181-4186 : ill <http://doi.org/10.1109/IECON.2018.8592796>

### **A method for detection and evaluation of driver distraction induced by in-vehicle information systems**

**Aksjonov, Andrei; Nedoma, Pavel; Vodovozov, Valery; Petlenkov, Eduard** IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 4513-4518 : ill <https://doi.org/10.1109/IECON.2018.8591252>

### **Multiport interface converter with an energy storage for nanogrids**

**Roasto, Indrek; Rosin, Argo; Jalakas, Tanel** IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 6088-6093 : ill <https://doi.org/10.1109/IECON.2018.8591104>

### **Wear-out failure analysis of solar optiverter operating with 60- and 72-cell Si crystalline PV modules**

**Liivik, Liisa; Chub, Andrii; Sangwongwanich, Ariya; Shen, Yanfeng; Vinnikov, Dmitri; Blaabjerg, Frede** IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2018 / p. 6134-6140 : ill <https://doi.org/10.1109/IECON.2018.8592925>