

### **Combined active frequency drift islanding detection method for NZEB energy router**

**Jalakas, Tanel; Roasto, Indrek; Najafzadeh, Mahdiyyeh** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 6 p  
<https://doi.org/10.1109/RTUCON48111.2019.8982258>

### **Control of DC/AC full bridge inverter**

**Najafzadeh, Mahdiyyeh** 18th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral School of Energy and Geotechnology III : Toila, Estonia, January 14-19, 2019 : [proceedings] 2019 / p. 159-160 : ill  
[https://www.ester.ee/record=b5183874\\*est](https://www.ester.ee/record=b5183874*est)

### **DC nano grid control in the residential energy router with the presence of constant power loads**

**Najafzadeh, Mahdiyyeh; Vinnikov, Dmitri; Husev, Oleksandr; Roasto, Indrek** 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 / p. 1-6 <https://doi.org/10.1109/ENERGYCON53164.2022.9830523>

### **DC-link capacitor minimization in residential energy router through battery utilization**

**Najafzadeh, Mahdiyyeh; Vinnikov, Dmitri; Husev, Oleksandr; Jalakas, Tanel; Roasto, Indrek** 2021 IEEE 15th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Florence, Italy, 14-16 July 2021 2021 / p. 1-6 : ill <https://doi.org/10.1109/CPE-POWERENG50821.2021>

### **Energy router based energy management system for nearly zero energy buildings**

**Najafzadeh, Mahdiyyeh; Roasto, Indrek; Jalakas, Tanel** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 6 p. : ill  
<https://doi.org/10.1109/RTUCON48111.2019.8982366>

### **Fuzzy logic control application in DC-link voltage control of the energy router**

**Najafzadeh, Mahdiyyeh** 20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021 2022 / p. 59-60 : ill  
[https://www.ester.ee/record=b5457278\\*est](https://www.ester.ee/record=b5457278*est)

### **Grid-forming operation of energy-router based on model predictive control with improved dynamic performance**

**Najafzadeh, Mahdiyyeh; Strzelecka, Natalia; Husev, Oleksandr; Roasto, Indrek; Nassereddine, Kawsar; Vinnikov, Dmitri;** Strzelecki, Ryszard Energies 2022 / 14 p. : ill <https://doi.org/10.3390/en15114010> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Improved DC-Link voltage transient response and stability issues in energy router with fuzzy logic control method**

**Najafzadeh, Mahdiyyeh; Husev, Oleksandr; Roasto, Indrek; Jalakas, Tanel** 2020 IEEE 61st International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 / 6 p. : ill <https://doi.org/10.1109/RTUCON51174.2020.9316477>

### **Model predictive control of a single-stage flying inductor based buck-boost grid-connected common-ground inverter**

**Rahimpour, Saeed; Matiushkin, Oleksandr; Kurdkandi, Naser Vosoughi; Najafzadeh, Mahdiyyeh; Husev, Oleksandr; Vinnikov, Dmitri** 2021 IEEE 62nd International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2021 / p. 1-6 <https://doi.org/10.1109/RTUCON53541.2021.9711711>

### **Multifunctional energy router for residential applications = Multifunktsionaalne energiaruuter eramutele**

**Najafzadeh, Mahdiyyeh** 2022 <https://doi.org/10.23658/taltech.25/2022> <https://digikogu.taltech.ee/et/Item/6914b8ca-7ca5-49d1-868a-a6de9192f8b4> [https://www.ester.ee/record=b5501867\\*est](https://www.ester.ee/record=b5501867*est)

### **Recent contributions, future prospects and limitations of interlinking converter control in hybrid AC/DC microgrids**

**Najafzadeh, Mahdiyyeh; Ahmadiyahangar, Roya; Husev, Oleksandr; Roasto, Indrek; Jalakas, Tanel; Blinov, Andrei** IEEE Access 2021 / art. 9312595, p. 7960–7984 <https://doi.org/10.1109/ACCESS.2020.3049023> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Review on the control strategies of hybrid nanogrid**

**Najafzadeh, Mahdiyyeh** 19th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tartu, Estonia, January 14-17, 2020 2020 / p. 143-144 : ill  
[https://www.ester.ee/record=b5291755\\*est](https://www.ester.ee/record=b5291755*est)

### **20th International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Tallinn, Estonia, September 8-10, 2021**

2021 [https://www.ester.ee/record=b5457278\\*est](https://www.ester.ee/record=b5457278*est)

### **Voltage source operation of the energy-router based on model predictive control**

**Roasto, Indrek; Husev, Oleksandr; Najafzadeh, Mahdiyyeh; Jalakas, Tanel; Rodriguez, Jose** Energies 2019 / art. 1892, 15 p. . ill <https://doi.org/10.3390/en12101892> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)