

Homayon Soltani Gohari

Email: Hsoltani@email.kntu.ac.ir

Education

M.Sc., (2017-2020)

Department of Electrical Engineering, K.N.Toosi University of Technology, Tehran, Iran **Thesis title:** Design and implementation of a bidirectional AC-DC converter with power factor

correction (PFC)

Supervisor: Prof. Karim Abbaszadeh (abbaszadeh@kntu.ac.ir)

B.Sc., (2013-2017)

Shahid Bahonar university of Kerman, Kerman, Iran

Grade A

Member of Brilliant Talent Leadership Group(3 YEARS)

Interests

- Design, simulation, and implementation of different types of power electronics converters
- Hardware-in-the-loop (HIL) simulation
- Design and development of power factor correctors
- Control of power electronics converters

Publications

Single-Switch Resonant Soft-Switching Ultra-High Gain DC-DC Converter with Continuous Input Current, IEEE Access, vol. 10, pp. 33482-33491, 2022 Sohrab Abbasian, Homayon Soltani Gohari, Mohammad Farsijani, Karim Abbaszadeh, Hossein Hafezi, Shaahin Filizadeh

Ultra-High Step-Up DC-DC Converters Based on Center-Tapped Inductors,

IEEE Access, vol. 9, pp. 136373-136383, 2021

Hadi Tarzamni, Naser Vosoughi Kurdkandi, *Homayon Soltani Gohari*, Matti Lehtonen, Oleksandr Husev, Frede Blaabjerg

Family of Multifunctional Controllable Converters for Grid, Battery, and PV-Powered EV Charging Station Applications,

2022 30th International Conference on Electrical Engineering

Homayon Soltani Gohari, Amir SafaeiNasab, Karim Abbaszadeh

Publisher: IEEE

Design and Control of a Novel Multi-port Bidirectional Buck-Boost Converter

Suitable for Hybrid Electric Vehicle Charging Stations,

2022 30th International Conference on Electrical Engineering
Amir SafaeiNasab, *Homayon Soltani Gohar*i, Karim Abbaszadeh

Publisher: IEEE

A Three-Winding Coupled Inductor-Based Voltage Multiplier Cell Integrated DC-DC Converter With Continuous Input Current,

2021 11th Smart Grid Conference (SGC)

Sohrab Abbasian, *Homayon Soltani Gohari*, Mohammad Farsijani, Karim

Abbaszadeh Publisher: IEEE

Hamiltonian Energy-Based Sliding Mode Control Approach for a Multi-port Bidirectional EV Charger via Zero Dynamic,

2021 12th Power Electronics, Drive Systems, and Technologies Conference (PEDSTC)

Amir Safaeinasab, *Homayon Soltani Gohari*, Karim Abbaszadeh

Publisher: IEEE

Bidirectional Buck-Boost Integrated Converter for Plug-in Hybrid Electric

Vehicles, Journal of Electrical and Computer Engineering Innovations (JECEI)

Homayon Soltani Gohari, K Abbaszadeh

A Novel Controllable Bidirectional switching-capacitor based Buck-Boost Charger for EVs.

2020 11th Power Electronics, Drive Systems, and Technologies Conference (PEDSTC) Homayon Soltani Gohari, Karim Abbaszadeh

Publisher: IEEE

Improving Performance and Efficiency of a Fuel-cell Hybrid EV Using New Three-Port DC-DC Converter and Optimized Energy Management Strategy,

2020 11th Power Electronics, Drive Systems, and Technologies Conference (PEDSTC)

Homayon Soltani Gohari, Karim Abbaszadeh

Publisher: IEEE