## Flexibility enhancement of hybrid microgrids using optimal H∞ filtering-based fuzzy control of UIPC

Zolfaghari, Mahdi; **Ahmadiahangar, Roya**; Gharehpetian, Gevork B.; **Häring, Tobias**; **Rosin, Argo** Proceedings : 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : Online - Setúbal, Portugal, 08 - 10 July, 2020 2020 / p. 451-455 https://doi.org/10.1109/CPE-POWERENG48600.2020.9161545

## Output voltage regulation of isolated PV-vonnected boost converters with variable loads using converted hysteresis sliding mode controller

Zolfaghari, Mahdi; Zolfaghari, A.; **Gharehpetian, Gevork B.**; **Ahmadiahangar, Roya**; **Rosin, Argo** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 7 p <a href="https://doi.org/10.1109/CPE-POWERENG58103.2023.10227386">https://doi.org/10.1109/CPE-POWERENG58103.2023.10227386</a>

## Using V2G technology as virtual active power filter for flexibility enhancement of HVDC systems

Zolfaghari, Mahdi; **Ahmadiahangar**, **Roya**; Gharehpetian, Gevork B.; **Rosin**, **Argo**; **Plaum**, **Freddy** Proceedings: 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG): Online - Setúbal, Portugal, 08 - 10 July, 2020 2020 / p. 489-494: ill <a href="https://doi.org/10.1109/CPE-POWERENG48600.2020.9161602">https://doi.org/10.1109/CPE-POWERENG48600.2020.9161602</a>