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Call For Papers

SPECIAL SESSION

ELECTRICAL AND NON-ELECTRICAL INTERVENTIONS FOR LESS ENERGY CONSUMPTIONS IN BUILDINGS

Organized and chaired by: Prof. Gianluca Scaccianoce and Dr. Giorgia Peri, DEIM - Department of Energy, Information Engineering and Mathematical Models – University of Palermo (Italy)

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Objective and topics: Buildings play an increasing role in the proper management of the energy resources. In addition, due to their importance in the countries' energy and environmental policies, they are called to embody effective actions in order of limiting the (primary) energy consumption, moderating the pressure exerted on the environment and simultaneously maintaining (or even increasing) the life style of people. These apparently contradictory aims could be in the same time achieved, both by recurring to highly efficient technologies and by adopting proper components of the building envelope that act as “passive” systems. These last components are able to reduce the requirements of energy for lighting, climatization and appliances use.

On this base, high quality papers that address the (electric) energy and environment issues are called.

The suggested topics are (but not limited to):

- indoor lighting of buildings, also related to the daylighting levels;
- enhancement of the efficiency of heating, cooling, ventilating and air conditioning systems;
- high efficiency heat pumps;
- cogeneration and trigeneration systems;
- innovative components of the building envelope including new glazing systems, green/cool roofs and new sustainable materials for the envelope;
- PV, wind and renewable energy generation systems for buildings, also including geothermal, piezoelectric and PV as envelope elements;
- BIM (Building Information Models), BMS (Building Management Systems) and BAT (Best Available Technologies).

All the instructions for paper submission are included in the conference website:

<https://www.eeeic.net/eeeic/>