



Special Section on:

Latest solutions and new trends in LED drivers

Nowadays, solutions based on Light-Emitting Diodes (LEDs) emitting white light are increasingly becoming the main source of artificial light worldwide. The reasons why LEDs have been so successful in the lighting market lies in their excellent characteristics in comparison to conventional lighting solutions: long lifetime, low maintenance requirements, environment friendliness, luminous efficiency, controllability in both light and color, lack of warm-up period, reliability and high power density.

Given that LEDs are diodes, it is necessary to control their dc forward current. The devices fulfilling this task are known as LED drivers, which cannot harm the benefits and performance of LEDs. Therefore, LED drivers must be as efficient, compact, and durable as LEDs, comply with very strict regulations, and adequately control the output current. These requirements have made the driving of LED lamps a significant field of research in power electronics.

We encourage all researchers working in this area to submit papers to this Special Section. Topics of interest include, but are not limited to:

- Modeling of LED lamps and LED drivers.
- Efficient and compact ac-dc and dc-dc LED drivers.
- Power factor correction in ac-dc LED drivers: flickerfree, disposing of the electrolytic capacitor, etc.
- EMI/EMC issues in LED drivers.
- **Efficient dimming in LED drivers.**
- **Energy partial processing in LED drivers**

- Efficient current equalizing in multiarray LED lamps.
- Digital control applied to LED drivers.
- **Wireless Power Transfer in LED drivers**
- New trends in LED Lighting Applications: display, indoor, outdoor, architectural, automotive, visible light communication systems, horticulture, human centric lighting, etc.

Manuscript Preparation and Submission

Check carefully the style of the journal described in the guidelines "Information for Authors" in the IEEE- IES website: Please manuscript http://www.ieee-ies.org/pubs/jestie. submit your electronic form through: https://mc.manuscriptcentral.com/jestie-ieee/.

On the submitting page, in pop-up menu of manuscript type, select: "SS on Latest solutions and new trends in LED drivers", then upload all your manuscript files following the instructions.

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