applied sciences

an Open Access Journal by MDPI

IMPACT FACTOR 2.5

CITESCORE 5.5

Investigation of Radiated Emissions from the Printed Circuit Boards and Cables of Electronic Devices

Guest Editor:

Prof. Dr. Yury Kuznetsov
Moscow Aviation Institute (National Research University), Moscow, Russia

Deadline for manuscript submissions:
closed (15 March 2022)

Message from the Guest Editor

Dear Colleagues,

Electromagnetic (EM) emissions from integrated circuits, transmission lines, and cables of electronic devices (EDs) may interfere with other EDs and with elements of the same system, which can cause noncompliance of electromagnetic compatibility (EMC) and disturbance of signal integrity in electronic product design. The future challenges in the EMC of EDs are driven by the increasing bandwidth and decreasing transient times of EM fields and signals, as well as the continued miniaturization of the components.

Topics of primary interest include but are not limited to:

- Near-field measurements of spurious emissions from the printed circuit boards and cables of electronic devices;
- Statistical processing of the registered data in time-frequency domains using cyclostationary properties;
- Localization and identification of noise sources on the surface of the PCB and inside the enclosure of the electronic device;
- Prediction of the emitted electromagnetic interference propagation in the environment of the ED;
- The influence of emissions on inter-system and intra-system EMC, in particular on the beat error rate (BER) of the communication links.

applied sciences

IMPACT FACTOR 2.5

CITESCORE 5.5

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
𝕏@Applsci