



## Applications, Control and Design of Power Electronics Systems

Guest Editor:

**Prof. Dr. Michal Frivaldsky**

Department of Mechatronics and  
Electronics (DME), University of  
Zilina, 01026 Zilina, Slovakia

michal.frivaldsky@feit.uniza.sk

Deadline for manuscript  
submissions:

**30 November 2022**

### Message from the Guest Editor

Dear Colleagues,

The scope of this Special Issue focuses on applied research concerning power electronic systems for a wide range of uses. We are currently witnessing an enormous development in high-performance electronic systems, as international regulations are strongly tightening the requirements for energy efficiency and green mobility.

Manufacturers of power semiconductor components are overseeing this trend, which is reflected in the continuous development of novel semiconductor structures, their package technologies and the optimization of their thermal performance. However, in light of technological progress, it should be noted that each novel technology requires some time for the evaluation of its suitability for applications. Here, we discuss technological progress within energy storage systems, energy transmission, charging infrastructure, electric traction and electric drives. Recently applied research of these systems in the form of an analysis, modeling, simulation or experimental testing could provide an impetus to accelerate deployment in practical applications.

Prof. Dr. Michal Frivaldsky

*Guest Editor*

