Special Issue

Deep Power Vision Technology and Intelligent Vision Sensors

Message from the Guest Editors

Deep power vision technology is the application of deep learning-based computer vision technology in power systems and is an important component of power artificial intelligence technology. The electric power system is an important and key national infrastructure, and its safe and stable operation is related to the national economy and people's livelihood as well as the sustainable development of the economy and society. At present, there is an increasing number of inspection images and videos obtained through vision sensors on helicopters, unmanned aerial vehicles, and robots. In order to improve the efficiency of power inspection and ensure the safe and stable operation of the electric power system, it has become a necessary and urgent task to apply computer vision and deep learning to visual processing of the goals and defects of power plants, transmission lines, substations, and distribution lines in electric power systems. The goal of this Special Issue is to provide a platform for exchanges on research works, technical trends, and practical experience related to deep power vision technology and intelligent vision sensors.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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