Special Issue

Innovations in Deep Learning and Computer Vision for Early Fire and Smoke Detection

Message from the Guest Editors

We invite authors to submit their articles on the use of deep learning and computer vision for the early detection of fire and smoke. The objective of this Special Issue is to promote innovative approaches capable of optimizing real-time monitoring and significantly enhancing responsiveness to emerging fires. Submissions may address, among other topics, the following themes:

- The development and optimization of deep learning models for image and video analysis;
- The integration of computer vision systems into intelligent sensor networks;
- Data fusion strategies for reliable detection under varying conditions;
- Performance evaluation and field validation of innovative solutions.

We also encourage case studies and feedback based on the implementation of these technologies in real-world situations. Proposals will be evaluated based on scientific quality, the originality of the methods proposed, and their potential impact on fire prevention.

Guest Editors

Dr. Moez Bouchouicha

Prof. Dr. Eric Moreau

Dr. Frédéric Bouchara

Deadline for manuscript submissions

15 October 2025

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

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