

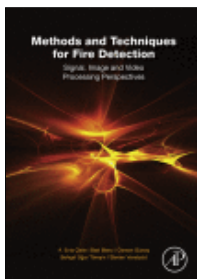
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# Methods and Techniques for Fire Detection

Signal, Image and Video Processing Perspectives

Author(s):

A. Enis Cetin, Bart Merci, Osman Günay, Behçet Uğur Töreysin and Steven Verstockt  
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This book describes the signal, image and video processing methods and techniques for fire detection and provides a thorough and practical overview of this important subject, as a number of new methods are emerging.

This book will serve as a reference for signal processing and computer vision, focusing on fire detection and methods for volume sensors. Applications covered in this book can easily be adapted to other domains, such as multi-modal object recognition in other safety and security problems, with scientific importance for fire detection, as well as video surveillance.

### Coverage includes:

- Camera Based Techniques
- Multi-modal/Multi-sensor fire analysis
- Pyro-electric Infrared Sensors for Flame Detection
- Large scale fire experiments
- Wildfire detection from moving aerial platforms
- The basics of signal, image and video processing based fire detection
- The latest fire detection methods and techniques using computer vision
- Non-conventional fire detectors: Fire detection using volumetric sensors
- Recent large-scale fire experiments and their results
- New and emerging technologies and areas for further research

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