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Special Session on

Vision-Based Systems for Danger Detection

Organized by

Giancarlo Iannizzotto (University of Messina, Italy, ianni@unime.it),
Marco Porta (University of Pavia, Italy, marco.porta@unipv.it)

Call for Papers

Industrial settings are potentially dangerous environments that need constant control to prevent, identify and deal with hazardous situations for persons and things. Therefore, depending on the acceptable risk, effective measures for danger avoidance, detection and management are necessary. Several kinds of monitoring systems have been developed in order to increase the safety level of work sites. Among these, vision-based techniques exploit the data coming from one or more video sources (both in the 2D color/gray level space and in the 3D depth space) to detect such circumstances. Vision-based solutions are often convenient not only for their effectiveness, but also because of their limited cost compared to other implementations.

Topics of interest include, but are not limited to:

- Video-based surveillance systems
- 2D and 3D scene understanding
- Vision-based location and object recognition
- Motion-based video analysis
- Intention estimation
- Multisensory approaches