

IET Image Processing

Call for Papers

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Special Issue on: Crowd Understanding and Analysis

Crowd safety has gradually become a severe problem in recent years. Disasters caused by unreliable crowd surveillance can be found in the 2015 Mina stampede and the UEFA Euro riots of 2016. To avoid such disasters, and reduce the number of victims, real-time understanding and analysis of crowd scenes is crucial.

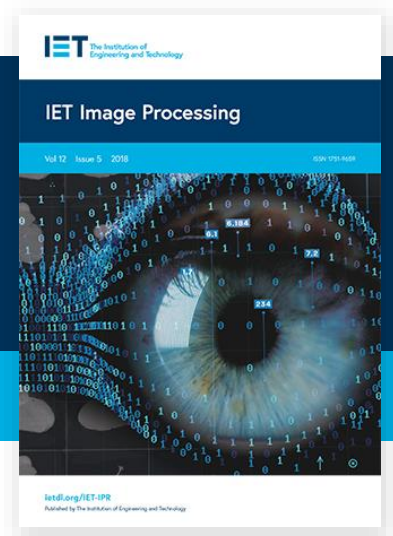
A recent trend for crowd understanding and analysis is to make use of deep learning algorithms. Many algorithms like regression-based crowd counting/monitoring/simulations have been proven to be effective, and better performance of crowd surveillance can be achieved, which makes related applications including space design, traffic control, and ecological surveys possible. However, there are spaces to improve and proposing more advanced algorithms should be necessary.

In this special issue, we solicit original contributions for crowd understanding and analysis. We encourage submissions that describe research developing new deep learning-based approaches centered on crowd images/videos. The primary goal is to efficiently extract semantic information, while a more challenging goal is to explore the congested crowd's behaviour pattern.

Topics of interest include, but are not limited to:

- Counting or density estimation
- Localisation
- Segmentation
- Anomaly detection
- Human behavior recognition
- Person group detection
- Pedestrian tracking in congested crowds
- Pedestrian trajectory prediction
- Crowd simulation
- Interaction analysis in crowds
- Pedestrian pattern recognition
- Data set for crowds

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