Novel Dataset for Fine-grained Abnormal Behavior Understanding in Crowd
Hamidreza Rabiee, Javad Haddadnia, Hossein Mousavi, Maziyar Kalantarzadeh, Moin Nabi, Vittorio Murino

Department of Electrical Engineering, Hakim Sabzevari University, Iran
NODET, Iran

PAVIS, Istituto Italiano di Tecnologia, Genova, Italy
DISI, University of Trento, Italy

Abstract
This work presents a novel crowd dataset contains around 45,000 video clips which annotated by one of the five different fine-grained abnormal behavior categories. We also evaluated two state-of-the-art methods on our dataset, showing that our dataset can be effectively used as a benchmark for fine-grained abnormality detection.

Proposed Dataset
This work presents a novel crowd dataset contains around 45,000 video clips which annotated by one of the five different fine-grained abnormal behavior categories (‘panic’, ‘fight’, ‘congestion’, ‘Obstacle’, ‘Neutral’).

Proposed Benchmark

References