

# Accepted Manuscript

Atanassov's intuitionistic fuzzy histon for robust moving object detection

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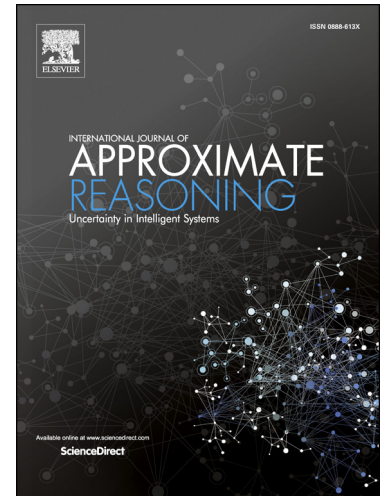
PII: S0888-613X(17)30158-5  
DOI: <http://dx.doi.org/10.1016/j.ijar.2017.08.014>  
Reference: IJA 8111

To appear in: *International Journal of Approximate Reasoning*

Received date: 4 March 2017  
Revised date: 25 August 2017  
Accepted date: 28 August 2017

Please cite this article in press as: D. Giveki et al., Atanassov's intuitionistic fuzzy histon for robust moving object detection, *Int. J. Approx. Reason.* (2017), <http://dx.doi.org/10.1016/j.ijar.2017.08.014>

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## Highlights

- Moving object detection in video frames is a very active research area.
- A new and efficient method for moving object detection has been proposed by using Atanassov's Intuitionistic Fuzzy Sets (A-IFS) theory.
- To deal with the hesitancy in deciding the pixel intensities of a digital image, a novel A-IFS representation of image is presented.
- A 3D fuzzy version of Histogram Roughness Index has been introduced to model image pixels.
- Experimental results on many video frames demonstrate the superiority of the proposed method.

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