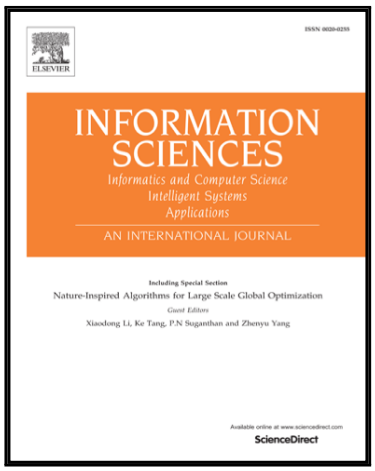
Accepted Manuscript



Augmenting Cascaded Correlation Filters with Spatial–Temporal Saliency for Visual Tracking

Dawei Zhao, Liang Xiao, Hao Fu, Tao Wu, Xin Xu, Bin Dai

PII: S0020-0255(18)30671-6
DOI: https://doi.org/10.1016/j.ins.2018.08.053
Reference: INS 13897

To appear in: *Information Sciences*

Received date: 9 September 2017
Revised date: 13 August 2018
Accepted date: 24 August 2018

Please cite this article as: Dawei Zhao, Liang Xiao, Hao Fu, Tao Wu, Xin Xu, Bin Dai, Augmenting Cascaded Correlation Filters with Spatial–Temporal Saliency for Visual Tracking, *Information Sciences* (2018), doi: https://doi.org/10.1016/j.ins.2018.08.053

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights

- We proposed a novel cascaded framework that can alleviate the boundary effect inherent in the discriminative correlation filter by utilizing both semantic and geometric features;
- We augmented the discriminative correlation filter with spatial-temporal saliency to better track occluded and nonrigid deformable objects;
- We performed extensive experiments and showed that the proposed approach outperformed most state-of-the-art approaches, especially in challenging scenarios including deformation, fast motion, and occlusion.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/8953553

Download Persian Version:

https://daneshyari.com/article/8953553

Daneshyari.com