People & Lab

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- [Martin Danelljan]()
- [Luca Bertinetto]()

Paper

ICCV 2017

- Parallel Tracking and Verifying: A Framework for Real-Time and High Accuracy Visual Tracking.

    - Heng Fan and Haibin Ling. IEEE International Conference on Computer Vision (ICCV), 2017.
    - [[Paper]]() [[Supplementary Material]]()
      [[C++ Parallel Code]]()
      [[Matlab Serial Code (including siamese caffe model, ~800M)]]()
      [[Tracking Results]]()

- Convolutional Residual Learning for Visual Tracking

    - Yibing Song, Chao Ma, Lijun Gong, Jiawei Zhang, Rynson Lau and Ming-Hsuan Yang
    - [[project]]()

- Need for Speed: A Benchmark for Higher Frame Rate Object Tracking

    - Hamed Kiani, Ashton Fagg, Chen Huang, Deva Ramanan, and Simon Lucey
    - [[Paper] [Sup. Material] [Project page]]()

- Learning Background-Aware Correlation Filters for Visual Tracking

    - Hamed Kiani, Ashton Fagg, and Simon Lucey
    - [[Paper] [Sup. Material] [Project Page]]()

- **p-tracker:** Tracking as Online Decision-Making: Learning a Policy From Streaming Videos

With Reinforcement Learning

- J. Supancic, D. Ramanan
- [paper] [supp]

CVPR 2017

- Context-Aware Correlation Filter Tracking. (Oral)

  - Matthias Mueller, Neil Smith, Bernard Ghanem.
  - [paper][project][github]

- ECO: Efficient Convolution Operators for Tracking

  - Martin Danelljan, Goutam Bhat, Fahad Shahbaz Khan, Michael Felsberg
  - [paper][project][github]

- Discriminative Correlation Filter with Channel and Spatial Reliability

  - Alan Lukežič, Tomáš Vojíř, Luka Čehovin, Jiří Matas, Matej Kristan
  - [paper][github]

- Large Margin Object Tracking with Circulant Feature Maps

  - Mengmeng Wang, Yong Liu, Zeyi Huang
  - [paper][zhihu]

- Multi-task Correlation Particle Filter for Robust Visual Tracking

  - Tianzhu Zhang, Changsheng Xu, Ming-Hsuan Yang
  - [paper][project]

- End-to-end representation learning for Correlation Filter based tracking

  - Jack Valmadre, Luca Bertinetto, João F. Henriques, Andrea Vedaldi, Philip H. S. Torr
  - [paper]][project][github]

- Attentional Correlation Filter Network for Adaptive Visual Tracking

  - Jongwon Choi, Hyung Jin Chang, Sangdoo Yun, Tobias Fischer, Yiannis Demiris, and Jin Young Choi
  - [paper][project][test code][training code]

CVPR 2016

- MDNet: Learning Multi-Domain Convolutional Neural Networks for Visual Tracking

  - Hyeonseob Nam, and Bohyung Han
  - [Paper][Project][github]

- Staple: Complementary Learners for Real-Time Tracking

  - Luca Bertinetto, Jack Valmadre, Stuart Golodetz, Ondrej Miksik, Philip H. S. Torr
  - [paper][poster][github][result]

- SINT: Siamese Instance Search for Tracking

  - Ran Tao, Efstratios Gavves, and Arnold W.M. Smeulders
  - [paper][project][github]

- **STCT:** STCT: Sequentially Training Convolutional Networks for Visual Tracking

  - Wang, Lijun and Ouyang, Wanli and Wang, Xiaogang and Lu, Huchuan
  - [paper][github]

ECCV 2016

- Fully-Convolutional Siamese Networks for Object Tracking

  - [paper][github][project]

- **SiameseFC:** Fully-Convolutional Siamese Networks for Object Tracking (workshop)

  - Luca Bertinetto, Jack Valmadre, João F. Henriques, Andrea Vedaldi, Philip H.S. Torr
  - [paper][project][github]

- **GOTURN:** Learning to Track at 100 FPS with Deep Regression Networks

  - David Held, Sebastian Thrun, Silvio Savarese
  - [paper][project][github]

- **C-COT:** Beyond Correlation Filters: Learning Continuous Convolution Operators for Visual Tracking

- Martin Danelljan, Andreas Robinson, Fahad Khan, Michael Felsberg
- [paper][project][github]

ICCV 2015

- **SRDCF:** Learning Spatially Regularized Correlation Filters for Visual Tracking

  - Martin Danelljan, Gustav Häger, Fahad Khan, Michael Felsberg
  - [paper][project]

- **DeepSRDCF:** Convolutional Features for Correlation Filter Based Visual Tracking (workshop)

  - Martin Danelljan, Gustav Häger, Fahad Khan, Michael Felsberg
  - [paper][project]

- **CF2:** Hierarchical Convolutional Features for Visual Tracking

  - Chao Ma, Jia-Bin Huang, Xiaokang Yang and Ming-Hsuan Yang
  - [paper][project][github]

- Understanding and Diagnosing Visual Tracking Systems

  - Naiyan Wang, Jianping Shi, Dit-Yan Yeung and Jiaya Jia
  - [paper][project][code]

- **FCNT:** Visual Tracking with Fully Convolutional Networks

  - Lijun Wang, Wanli Ouyang, Xiaogang Wang, and Huchuan Lu
  - [paper][project][github]

CVPR 2015

- **MUSTer:** MUlti-Store Tracker (MUSTer): A Cognitive Psychology Inspired Approach to Object Tracking

  - Zhibin Hong, Zhe Chen, Chaohui Wang, Xue Mei, Danil Prokhorov, Dacheng Tao
  - [paper][project]

- **LCT:** Long-term Correlation Tracking

- Chao Ma, Xiaokang Yang, Chongyang Zhang, Ming-Hsuan Yang
  - [paper][project][github]

- **DAT:** In Defense of Color-based Model-free Tracking

  - Horst Possegger, Thomas Mauthner, and Horst Bischof
  - [paper]
    [project]
    [code]

- **RPT:** Reliable Patch Trackers: Robust Visual Tracking by Exploiting Reliable Patches

  - Yang Li, Jianke Zhu and Steven C.H. Hoi
  - [paper][github]

Awesome blogs and websites

Zhihu Articles

- CVPR2017跟踪相关文章介绍
- 目标跟踪综述

GitHub 🐙

Collection of recent bench trackers

To be continued...