

主题一： IEEE Xplore高效检索、 文献调研及热点追踪

IEEE 李箐
2019



目录

- IEEE IEL数据库资源详解-期刊/会议/标准
- 如何快速检索科技文献
- 如何便捷追踪热点技术
- 如何进行系统性文献综述



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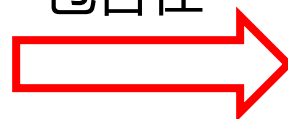
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Faster R-CNN: Towards Real-Time Object Detection with Region Proposal Networks

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State-of-the-art object detection networks depend on region proposal algorithms to hypothesize object locations. Advances like SPPnet [1] and Fast R-CNN [2] have reduced the running time of these detection networks, exposing region proposal computation as a bottleneck. In this work, we introduce a Region Proposal Network(RPN) that shares full-image convolutional features with the detection network, thus enabling nearly cost-free region proposals. An RPN is a fully convolutional network that simultaneously predicts object bounds and objectness scores at each position. The RPN is trained end-to-end to generate high-quality region proposals, which are used by Fast R-CNN for detection. We further merge RPN and Fast R-CNN into a single network by sharing their convolutional features-using the recently popular terminology of neural networks with 'attention' mechanisms, the RPN component tells the unified network where to look. For the very deep VGG-16 model [3], our detection system has a frame rate of 5 fps (including all steps) on a GPU, while achieving state-of-the-art object detection accuracy on PASCAL VOC 2007, 2012, and MS COCO datasets with only 300 proposals per image. In ILSVRC and COCO 2015 competitions, Faster R-CNN and RPN are the foundations of the 1st-place winning entries in several tracks. Code has been made publicly available.

文摘页面：作者

Authors

[Shaoqing Ren](#)

University of Science and Technology of China, Hefei,
Anhui, China

Shaoqing Ren received the BS degree from the University of Science and Technology of China in 2011. He received the PhD degree in a joint PhD program between University of Science and Technology of China and Microsoft Research Asia. His research interests are in computer vision, especially in detection and localization of general objects and faces.

[Kaiming He](#) 

Visual Computing Group, Microsoft Research, Beijing,
China

Kaiming He received the BS degree from Tsinghua University in 2007, and the PhD degree from the Chinese University of Hong Kong in 2011. He is a lead researcher at Microsoft Research Asia. He joined Microsoft Research Asia in 2011. His current research interests are deep learning for visual recognition, including image classification, object detection, and semantic segmentation. He has won the Best Paper Award at CVPR 2009.

文摘页面：作者

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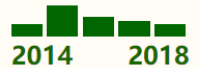
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Kaiming He

Affiliation

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Microsoft Research
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Co-Authors:

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Kaiming He received his Ph.D. from the Chinese University of Hong Kong, Asia. He joined Microsoft Research for visual learning for image segmentation. He



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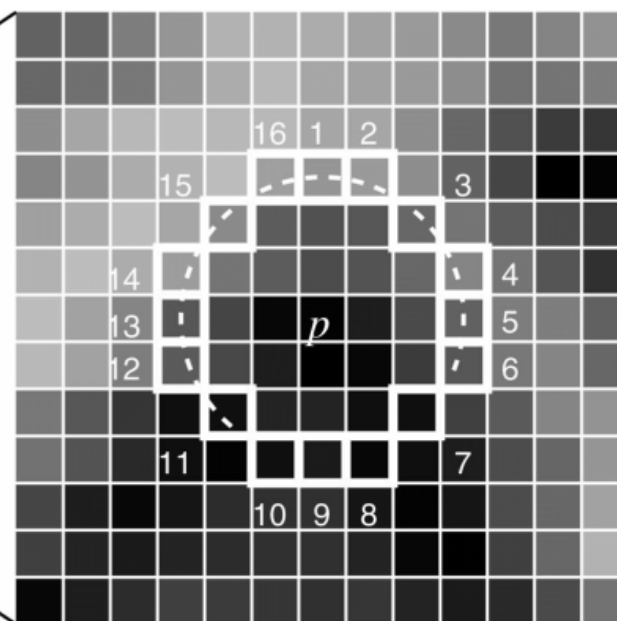
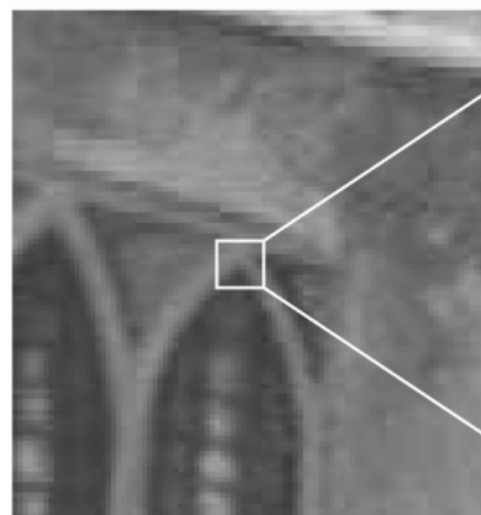
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Twelve-point segment test corner detection in an image patch. the highlighted squares are the pixels used in the corner detection. the pixel at p is the center of a candidate corner. the arc is indicated by the dashed line passing through 12 contiguous pixels which are brighter than p by

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8. P. F. Felzenszwalb, R. B. Girshick, D. McAllester, D. Ramanan, "Object detection with discriminatively trained part-based models", *IEEE Trans. Pattern Anal. Mach. Intell.*, vol. 32, no. 9, pp. 1627-1645, Sep. 2010.

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9. P. Sermanet, D. Eigen, X. Zhang, M. Mathieu, R. Fergus, Y. LeCun, "Overfeat: Integrated recognition localization and detection using convolutional networks". *Proc. Int. Conf. Learn. Representations*

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1. K.E. Ko, K.B. Sim, "Real-time object entity detection system for smart surveillance application", *Electronics Letters*, vol. 53, no. 19, pp. 1304-1306, 2017.

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2. Yinzhang Ding, Qiuyan Tao, Lianghao Wang, Dongxiao Li, Ming Zhang, "Image-based localisation using shared-information double stream hourglass networks", *Electronics Letters*, vol. 54, no. 8, pp. 496-498, 2018.

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3. Yi Zhang, Zhichun Mu, Li Yuan, Chen Yu, "Ear verification under uncontrolled conditions with convolutional neural networks", *Biometrics IET*, vol. 7, no. 3, pp. 185-198, 2018.

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Keywords

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Machine learning, Detectors, Image edge detection, Computer vision, Layout, Simultaneous localization and mapping, Testing, Image matching, Image recognition, Streaming media

INSPEC: Controlled Indexing

edge detection, feature extraction, learning (artificial intelligence)

INSPEC: Non-Controlled Indexing

machine learning approach, corner detection, real-world application, feature detection, edge technique, PAL video, 3D location

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Mehdi Naderi Soorki; Mohammad Hossein Manshaei; Behrouz Maham; Hossein Saidi

IEEE Transactions on Mobile Computing

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Pages: 1 - 1, DOI: 10.1109/TMC.2017.2707540

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Xingguang Wei; Haitao Liu; Zhiming Geng; Kan Zheng; Rongtao Xu; Yang Liu; Peng Chen

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IEEE Transactions on Mobile Computing

Year: 2017, Volume: PP, Issue: 99

Pages: 1 - 1, DOI: 10.1109/TMC.2017.2707540

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Gang Ren; Joseph Johnson; Hyunhwan Lee; Mitsunori Ogihara
2016 15th IEEE International Conference on Machine Learning and Applications (ICMLA)

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Pages: 657 - 664, DOI: 10.1109/ICMLA.2016.0116

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Ehud Weiss; Dima Bykhovsky; Shlomi Arnon

IEEE Photonics Technology Letters

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
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```
1 clearvars
2 close all
3
4 %% Definitions
5 N = 5e6; % number of simulation trials
6
7 M = 12; % total number of slots
8 k = 2; % blocked slots (0's)
9 n = M - k; % open slots (1's)
10 L = nchoosek(M,k); % number of codewords
11
12 x = [ones(1,k) zeros(1,n)]'; % Eq. (5) in the paper
13 % Assumed: mu_0 = 0; mu_1 = 1;
14 signal = repmat(x,1,N); % sent signal - generated only one time
15 noise_vect = randn(M,N); % general noise vector - generated only one time
16
17 SNRdB = 5:16; % SNR range
18 SNR = 10.^(SNRdB/10);
19 % Assumed: sigma_0 = sigma_1 = sigma
20 sigma = sqrt(1./SNR); % noise std
21
22 %% Simulation
23 for w = 1:length(SNR)
24     % receiver noise
25     noise = sigma(w)*noise_vect;
26
27     % signal at the receiver
28     signal_r = signal + noise;
29
30     % received signal
31     % indices of the k lowest values are compared to the transmitted signal
32     % (Sec. II-C in the paper)
33     [~, r_idx] = sort(signal_r,'descend');
34     r_signal_idx = r_idx(1:k,:);
35     difference = sort(r_signal_idx) - repmat(find(x),1,N);
36     [~, col] = find(difference ~= 0);
37     total_errors = length(unique(col));
```

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☒ **Cloud computing adoption in the Kenyan institutional perspective**
John Oredo; James Njihia; X N Iraki
2017 IST-Africa Week Conference (IST-Africa)
Year: 2017
Pages: 1 - 9

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The screenshot shows the IEEE Xplore search interface. At the top, there are navigation tabs: 'Browse', 'My Settings', and 'Get Help'. The 'My Settings' dropdown menu is open, showing options: 'Content Alerts', 'Search Alerts' (highlighted), 'Preferences', 'Purchase History', 'Search History', and 'What can I access?'. An orange callout box with the text '查看已有检索提醒订阅' (View existing search alert subscriptions) is positioned over the 'Search Alerts' option. Below the navigation, there is a search bar with the text 'cloud computing' and a search button. To the left of the search bar, there is a filter menu with 'All' selected. Below the search bar, there is a section for 'Displaying results 1-25 of 44,306 for cloud computing'. This section includes a list of filters: 'Conference Publications (38,541)', 'Journals & Magazines (4,755)', 'Books & eBooks (291)', and 'Courses (40)'. On the right side, there is a 'Set Alert' dialog box. It contains a 'Search Alert Name*' field with the text 'cloud computing' and an 'Email Address' field with the text '154056786@qq.com'. There are 'Cancel' and 'Save' buttons at the bottom of the dialog box. The bottom of the page shows a pagination bar with 'Pages: 1 - 9' and a 'courses.' link.

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courses.

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■ 文献综述

- 针对某一个研究主题在全面系统性文献检索之后,就当前全球在该领域的主要研究成果,进展,方法和问题进行综合分析而成

■ 完整而系统的文献调研

- 分析整合: 并非一堆文献的简单堆积和流水账式阐述
- 查找该研究主题已有的经典综述文献
- 文献综述作为论文一部分 vs. 独立的综述论文

文献综述撰写建议

- 多参考英文文献
 - 国际核心期刊
 - 领域内专家

- 综述具体写法多样，没有统一模式。
 - 不同的主题
 - 年代发展
 - 不同的观点
 - 不同的研究方法
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IEEE Xplore® MOOC 2019 春季课程安排表

主题一(a) IEEE Xplore 高效检索、文献调研及热点追踪



4月3日



4月11日

主题一(b) IEEE Xplore 检索功能进阶课程



4月24日



5月9日

主题二 IEEE 期刊会议投稿流程与注意事项



5月15日



5月23日

主题三 IEEE 科技论文英文写作剖析



6月5日



6月13日

主题四 IEEE标准检索与标准开发流程



6月19日

特别系列 “IEEE领航未来” 系列课程



4月22日-5月2日

微信课程时间：周三 19:30-20:30

QQ 课程时间：周四 19:30-20:30

课程详细信息请访问：

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课程注册请扫描下方二维码



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有问题请随时联系我们！

李箐

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