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IEEE中国区资讯经理

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2016

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- IEEE内容更新
  - IEEE Xplore新内容
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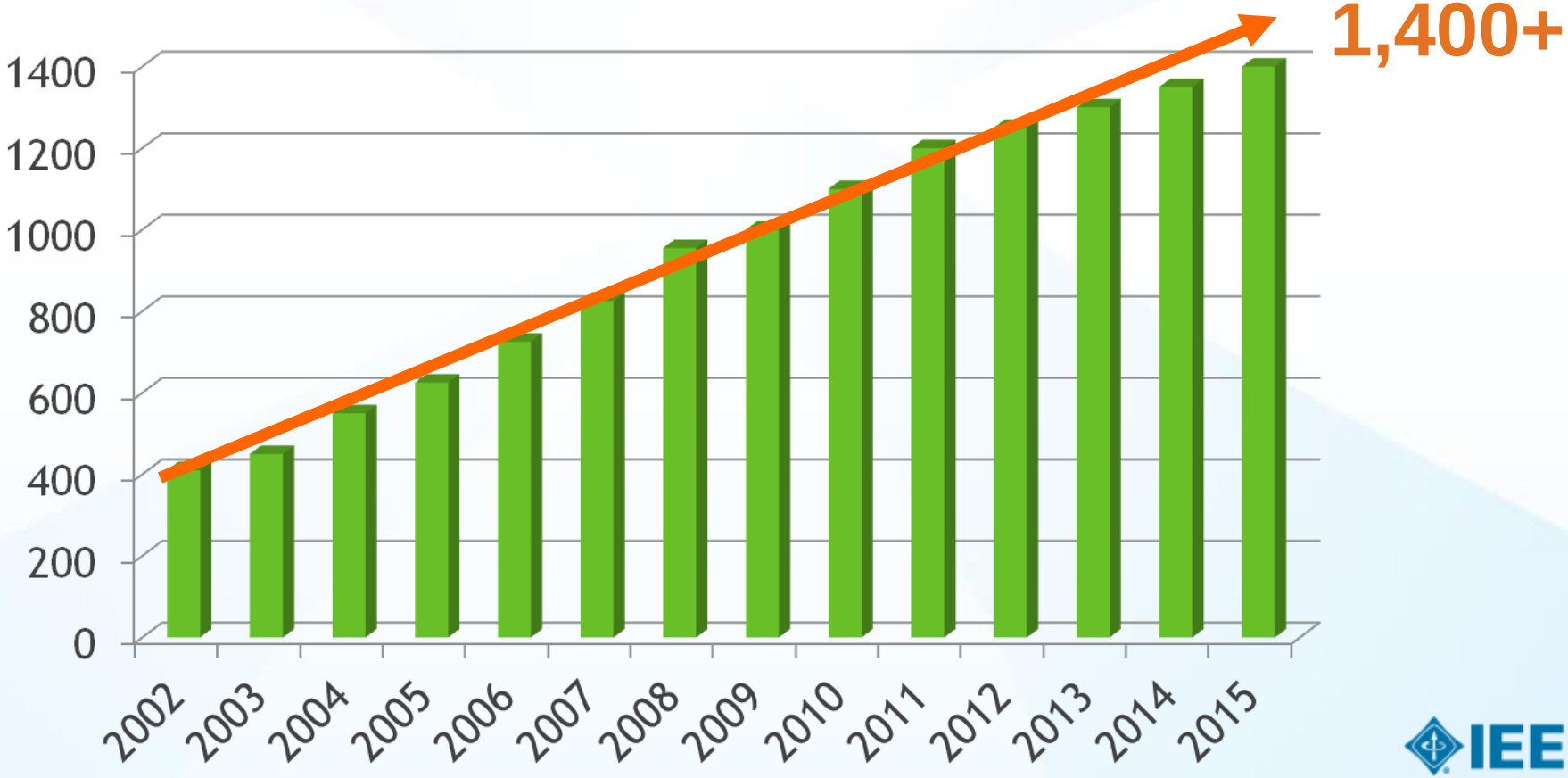

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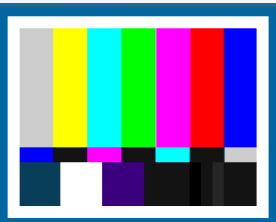
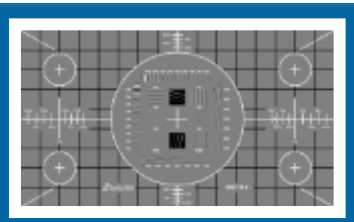


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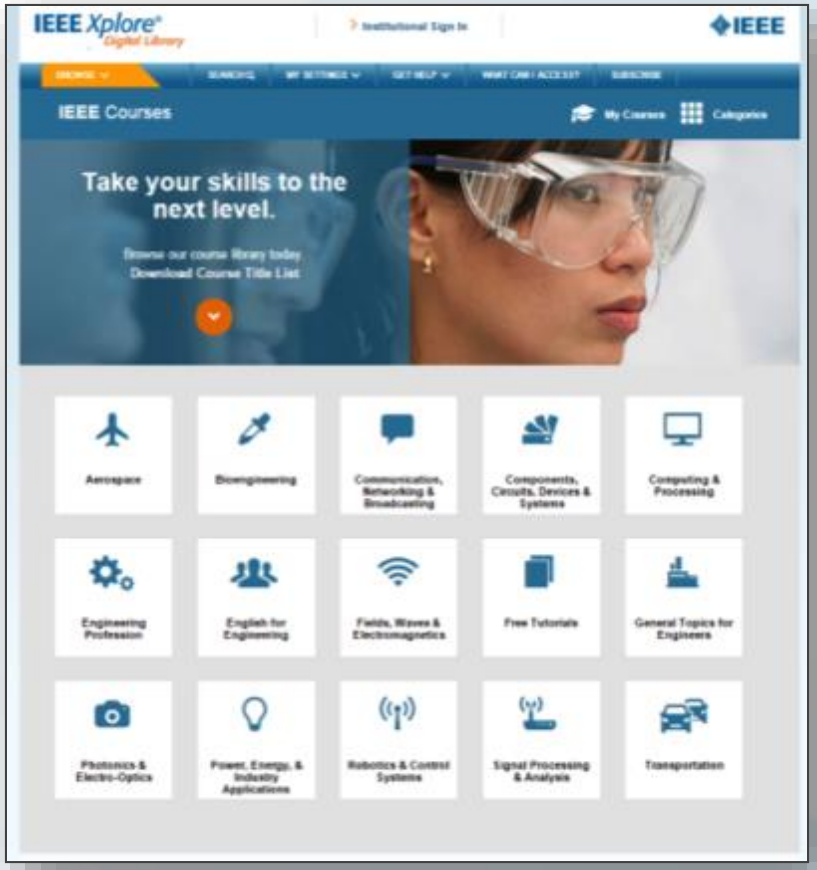

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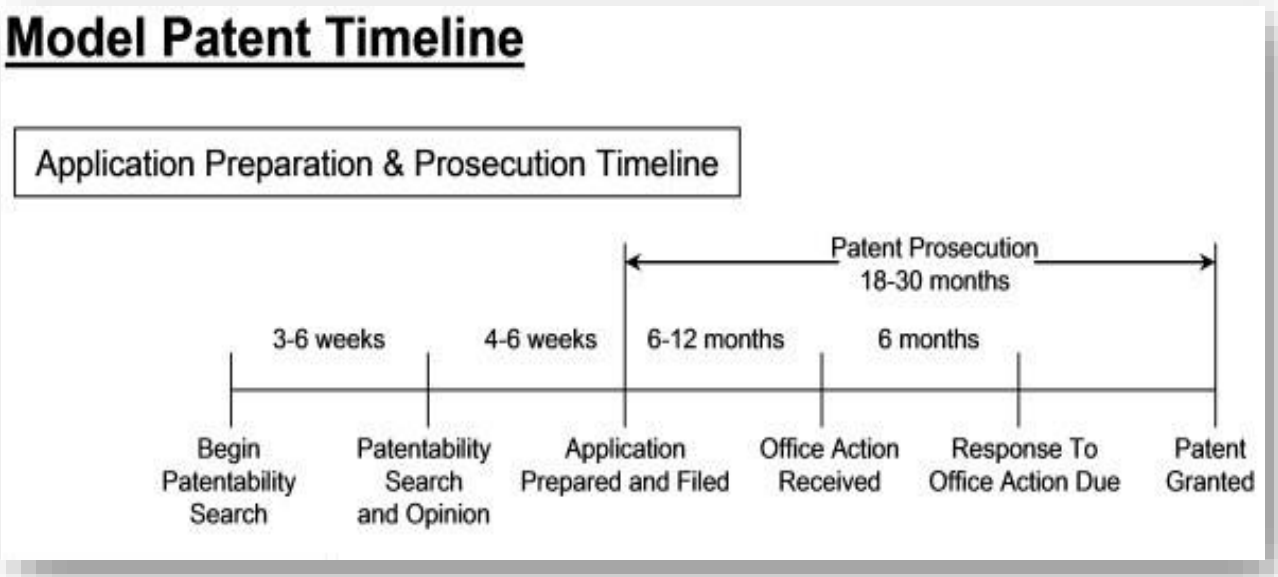

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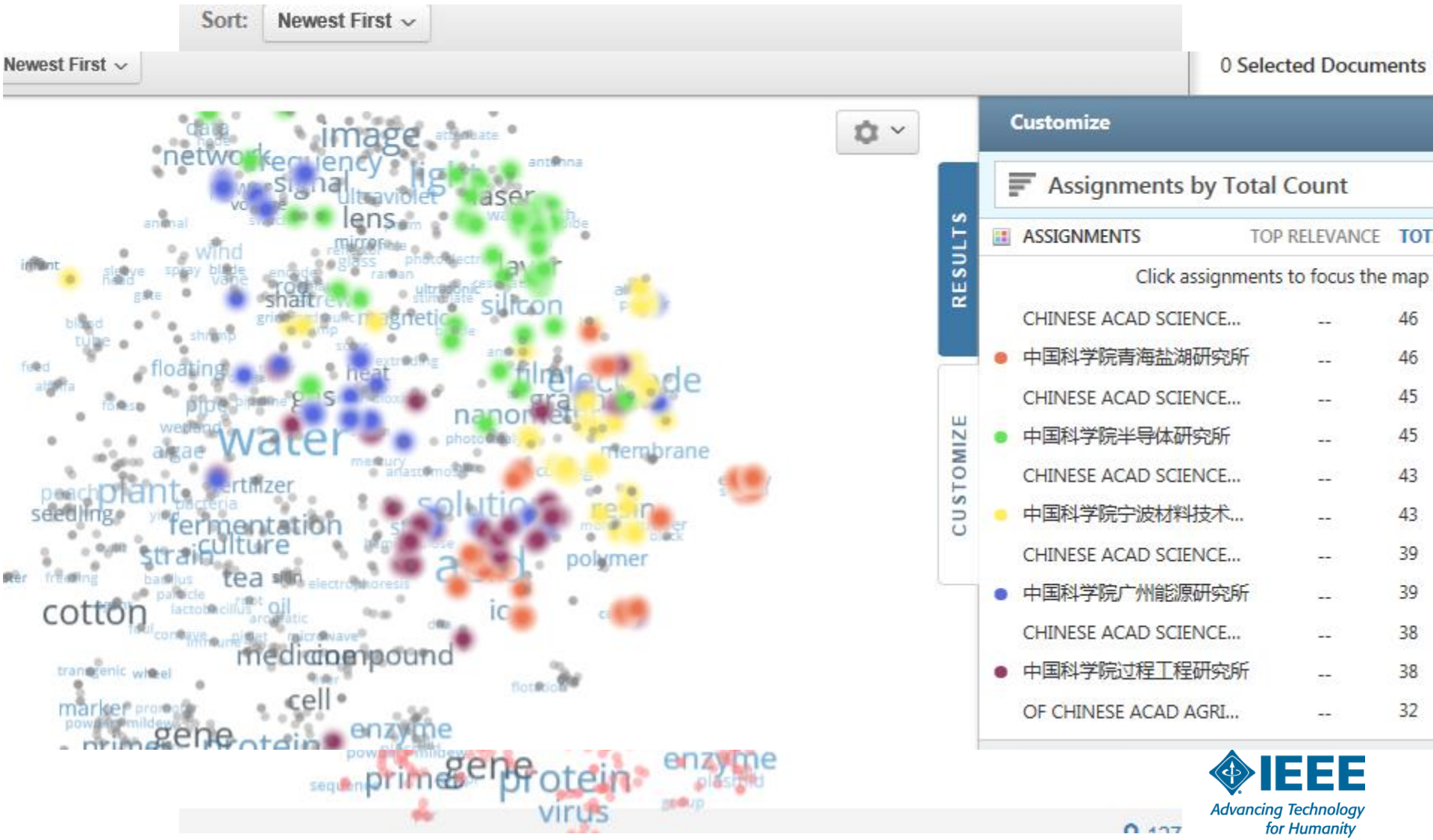

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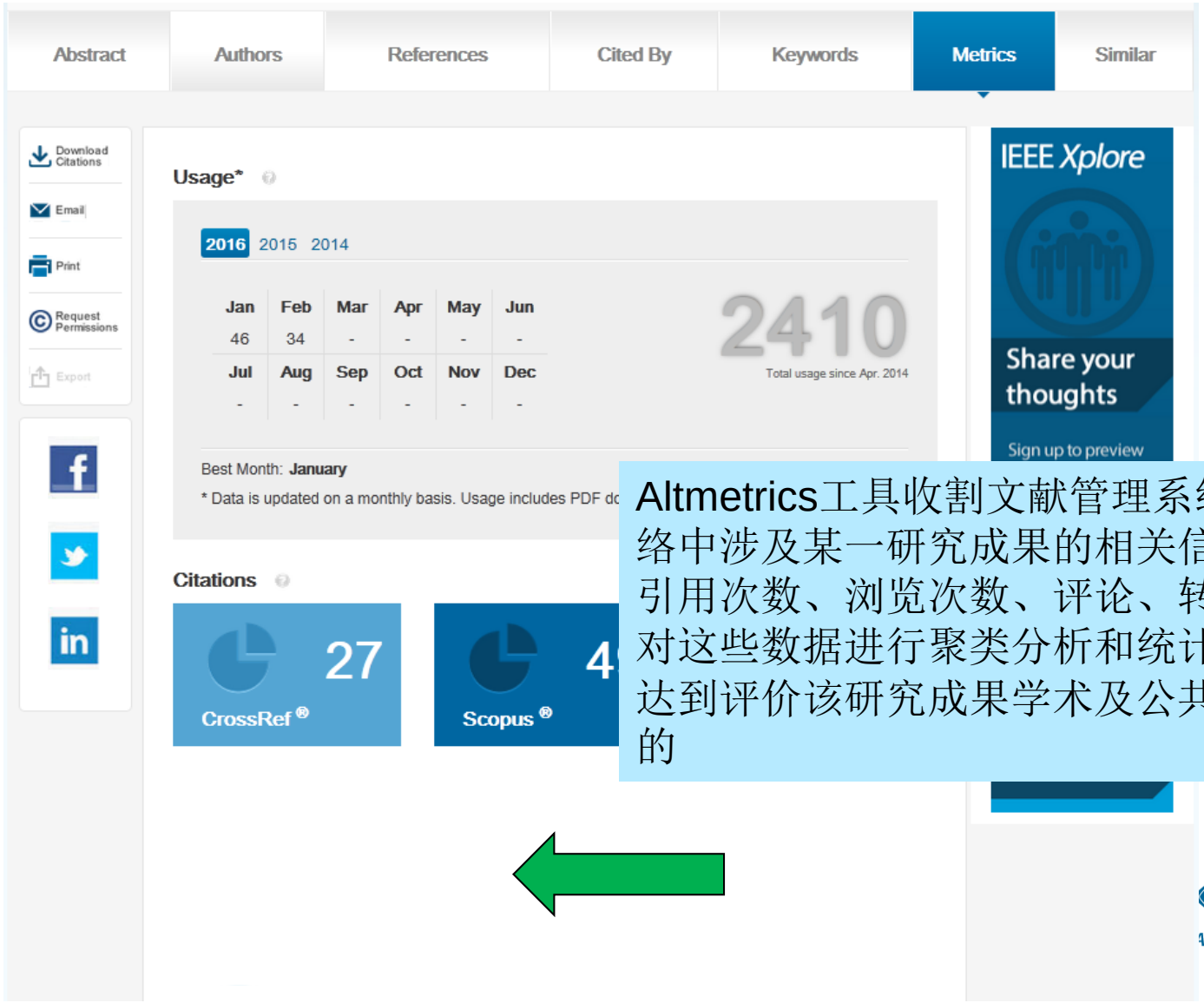

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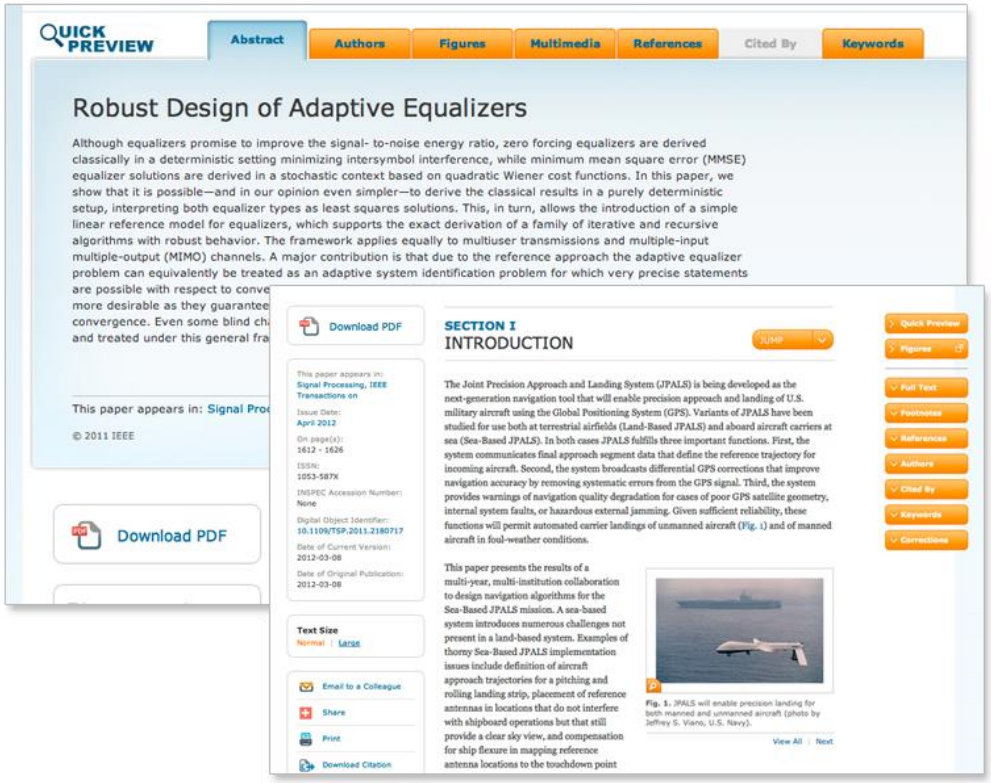

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Fast Keypoint Recognition Using

Mustafa Özuysal

Mustafa Özuysal received the BSc degree in electrical and electronics engineering in 2002 and the MSc degree in computer vision from Middle East Technical University (METU), Ankara, Turkey. He is currently working toward the PhD degree in the Computer Vision Laboratory (CVLab) at the Swiss Federal Institute of Technology at Lausanne (EPFL). His research focuses on fast keypoint matching for object tracking and detection.

More About this Author

Michael Calonder

Michael Calonder received the graduate degree in 2006 and the MS degree in mechanical engineering with focus on numerical fluid mechanics and computational science from ETH Zurich, Switzerland, where he is currently working toward the PhD degree in the Computer Vision Group. His thesis focuses on high-speed feature point description and its applications, especially SLAM.

More About this Author

Vincent Lepetit

Vincent Lepetit received the engineering and master's degrees in computer science from the ESIAL in 1996 and the PhD degree in computer vision from the University of Nancy, France, in 2001, after working in the ISA INRIA team. He then joined the Virtual Reality Lab at the Swiss Federal Institute of Technology (EPFL) as a postdoctoral fellow and became a founding member of the Computer Vision Laboratory. ...

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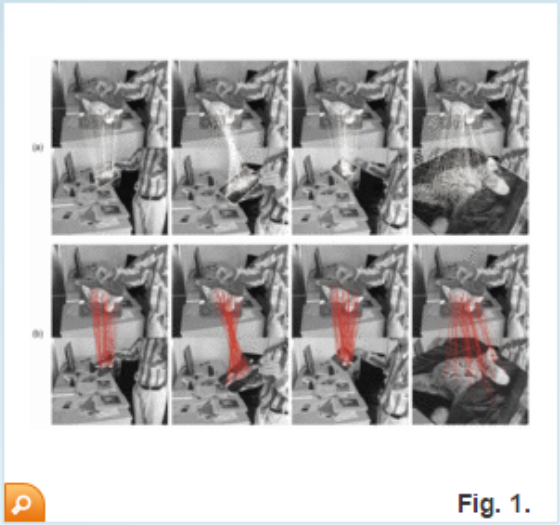

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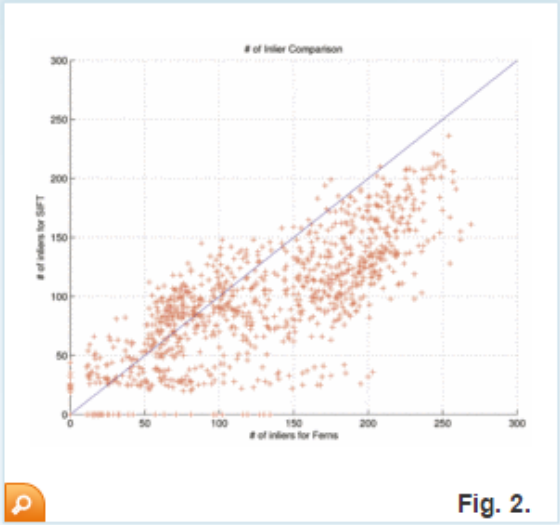

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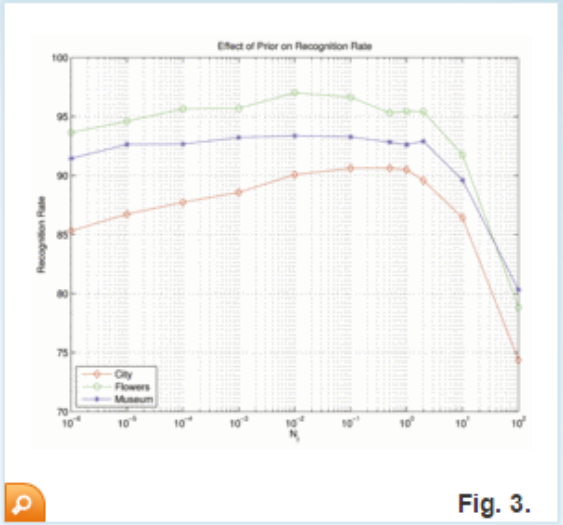

Fig. 3.

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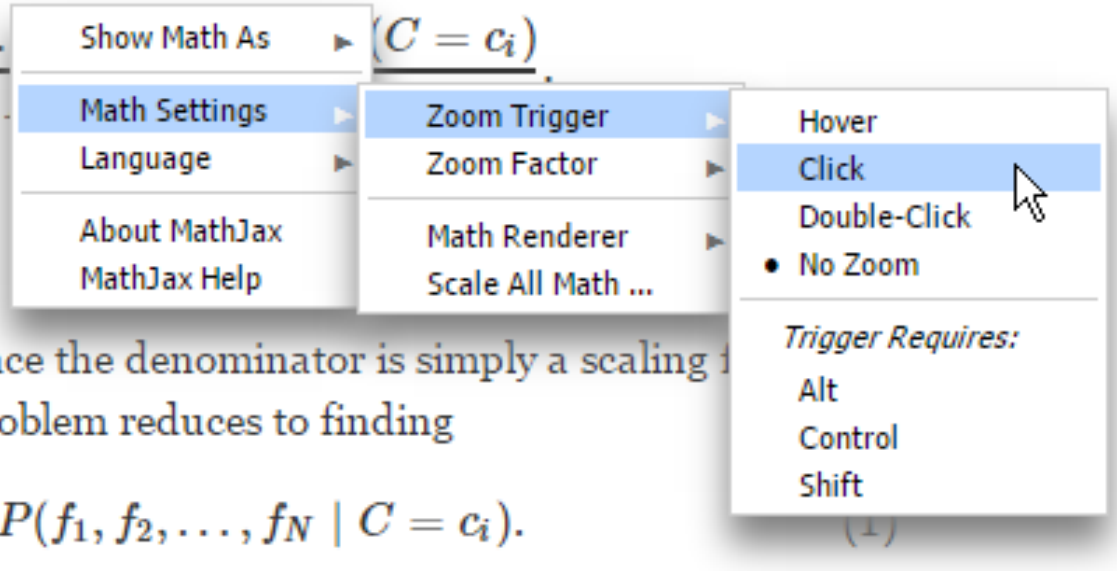
3.1 Formulation of Feature Combination

As discussed in Section 2, we treat the set of all possible appearances of the image patch surrounding a keypoint as a class. Therefore, given the patch surrounding a keypoint detected in an image, our task is to assign it to the most likely class. Let c_i ,

where C is a random variable that represents the class. Bayes' formula yields

$$P(C = c_i \mid f_1, f_2, \ldots, f_N)$$
$$= \frac{P(f_1, f_2, \cdot}{} \quad (C = c_i)$$



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Assuming a uniform prior $P(C)$, since the denominator is simply a scaling f
is independent from the class, our problem reduces to finding

$$\hat{c}_i = \underset{c_i}{\operatorname{argmax}}\, P(f_1, f_2, \ldots, f_N \mid C = c_i).$$

Assuming a uniform prior $P(C)$, since the denominator is simply a scaling factor that is independent from the class, our problem reduces to finding

$$\hat{c}_i = \underset{c_i}{\operatorname{argmax}}\, P(f_1, f_2, \ldots, f_N \mid C = c_i). \quad (1)$$

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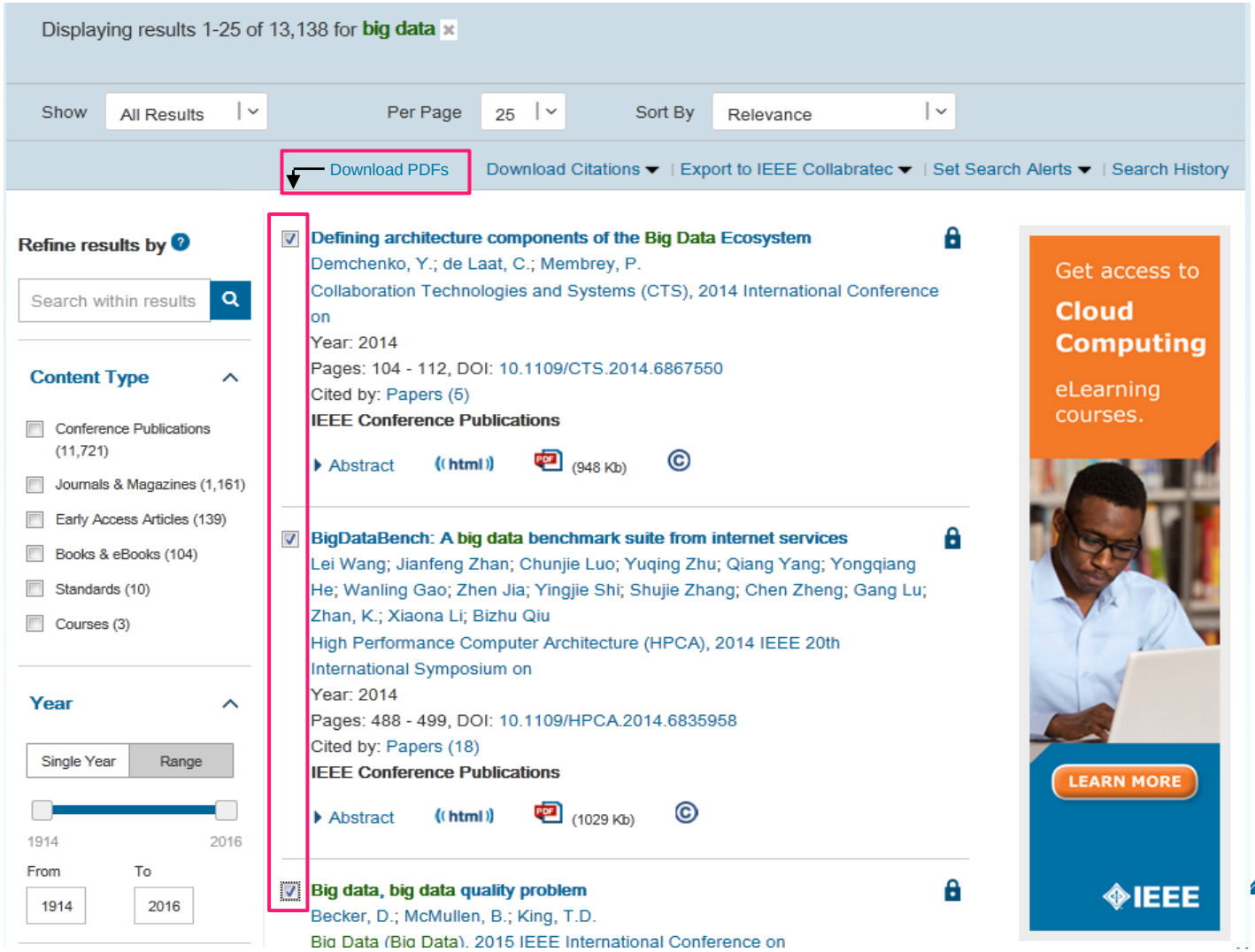

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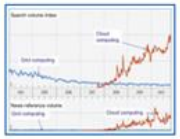

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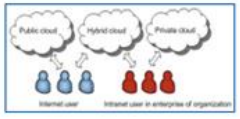

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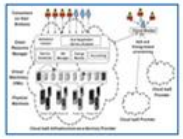

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Co-Authors

Trivedi, Mohan Manubhai (199)	199
Gandhi, Tarak L. (17)	17
Morris, Brendan Tran (17)	17
Doshi, Anup (16)	16
McCall, Joel C. (15)	15
Rao, Bhaskar D. (12)	12
Tran, Cuong (12)	12
Merapane, Suresh B. (11)	11
Krotosky, Stephen Justin (9)	9
Cheng, Shinko Y. (9)	9
Chen, ChuXin (8)	8
Ng, Kim C. (7)	7
Huang, Kohsia Samuel (7)	7
Ravichandran, Gopalan (6)	6
Sivaraman, Sayanan (6)	6
Tawari, Ashish (6)	6
Trivedi, Mohan M. (6)	6
Wu, Junwen (6)	6
Mikic, Ivana (6)	6
Kogut, Gregory T. (6)	6
Shivappa, Shankar T. (5)	5
Moeslund, Thomas B. (5)	5
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