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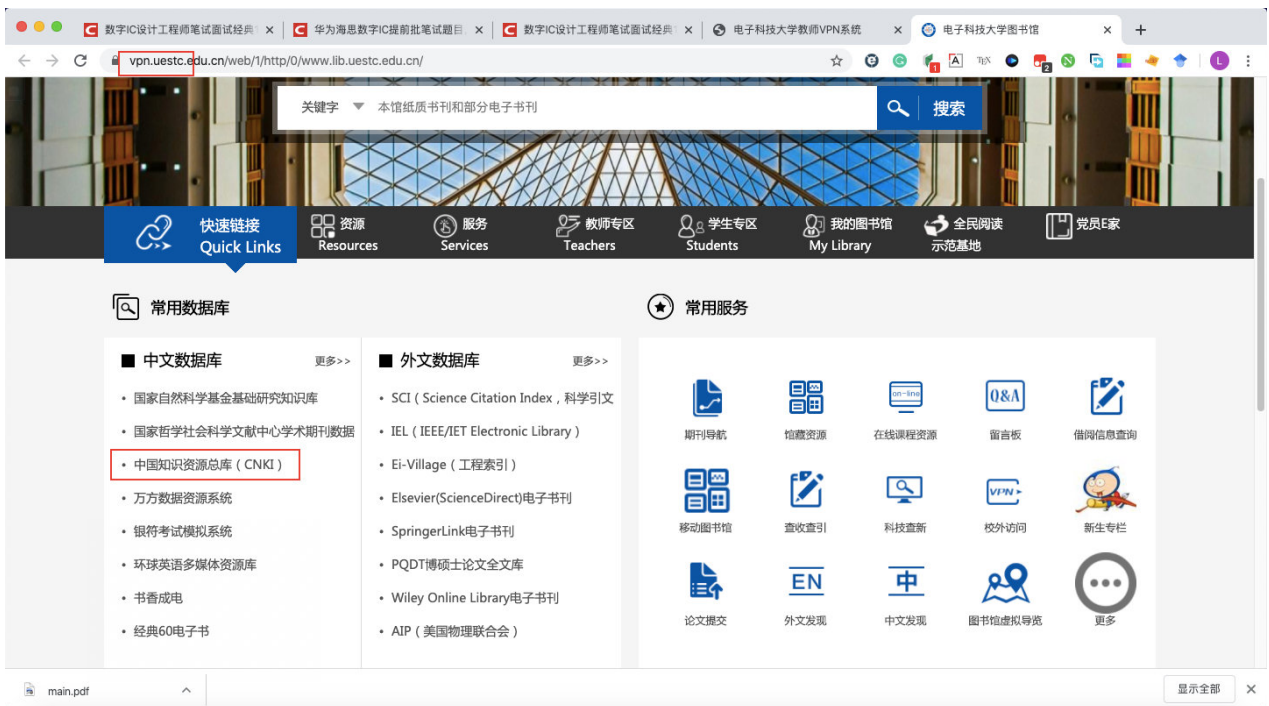
最近登录信息

登陆结果:	成功
登陆时间:	2020-04-13 10:38:20
登陆地址:	117.174.173.73
登陆方式:	EasyConnect
客户端系统:	Mac

确定



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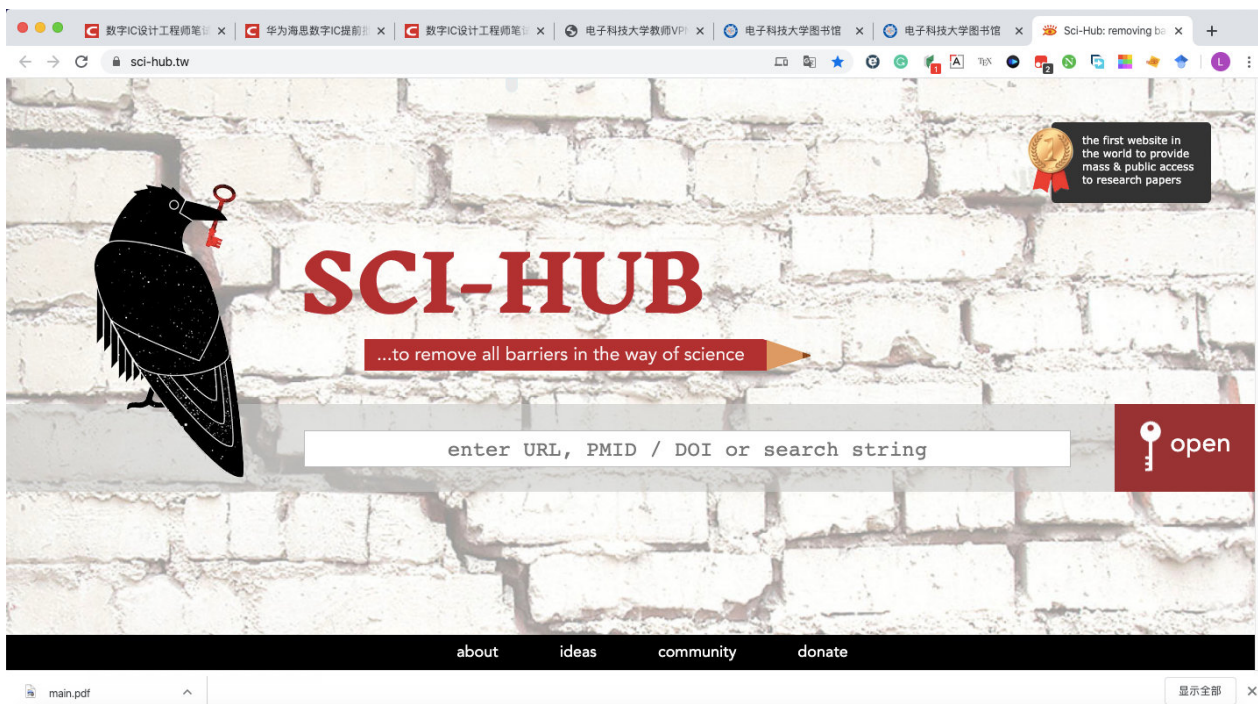


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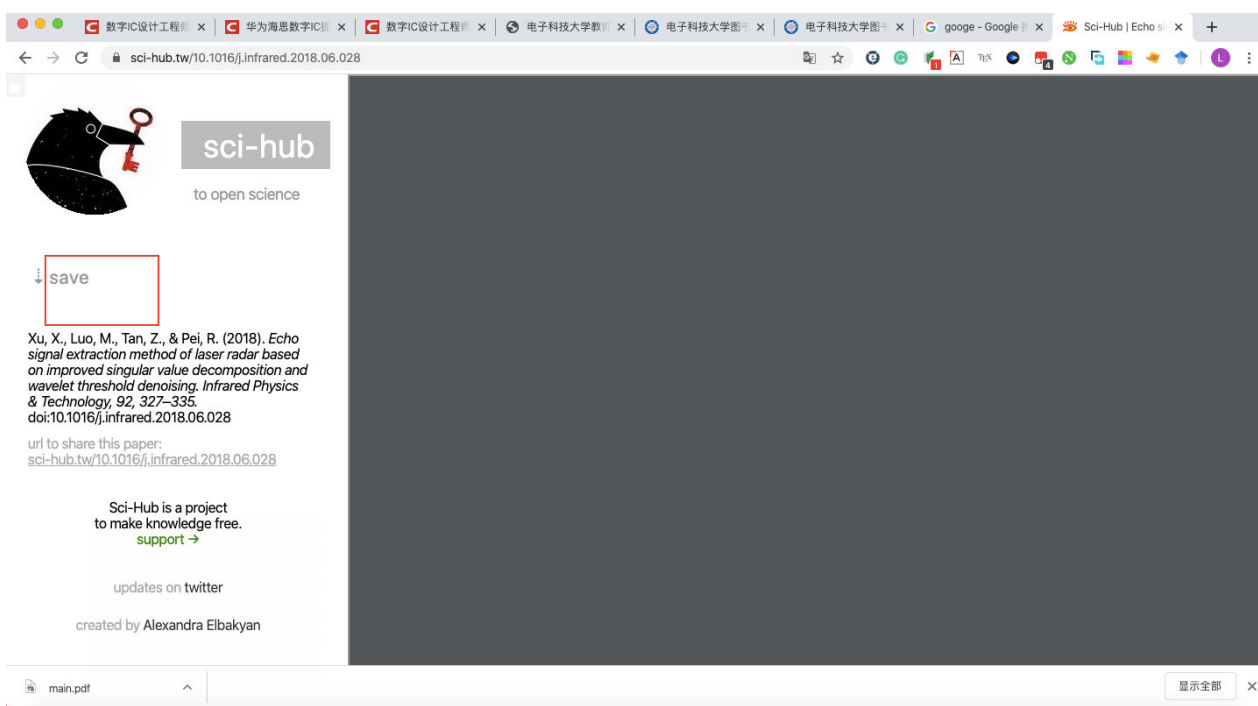


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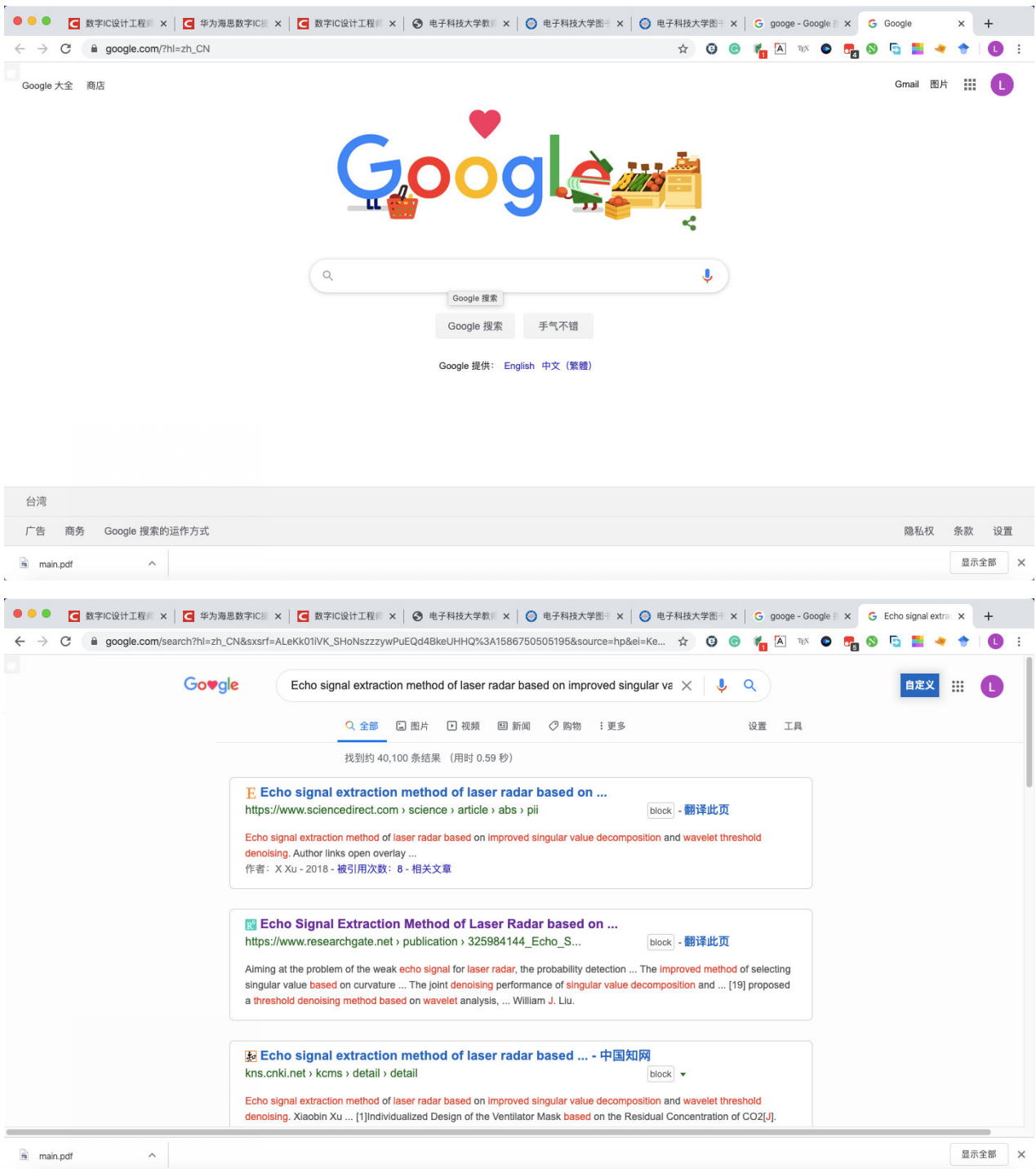


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Outline Highlights Abstract Keywords

1. Introduction
2. Detection probability model
3. Singular value decomposition methods
4. Adaptive wavelet threshold denoising method
5. Simulations and experiments
6. Conclusions
7. Conflict of interest
Acknowledgements

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18, Pages 327-335

A method of laser radar based on improved singular value decomposition and wavelet threshold denoising

Xiaobin Xu, Minzhou Luo, Zhiying Tan, Ronghao Pei
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Regular article
Echo signal extraction method of laser radar based on improved singular value decomposition and wavelet threshold denoising

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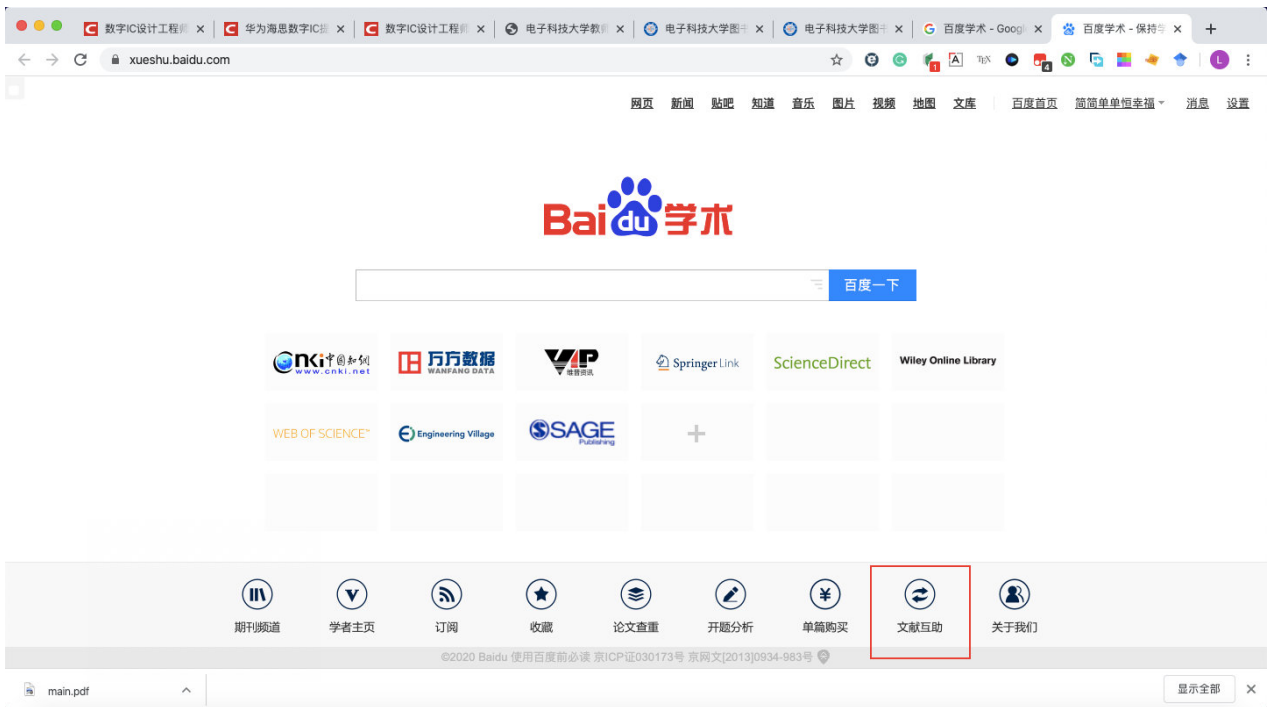
ARTICLE INFO
Keywords:
Laser radar
Echo signal
Wavelet denoising
Improved singular value decomposition

ABSTRACT
Aiming at the problem of the weak echo signal for laser radar, the probability detection model of the laser radar is set up, and the influence of different signal to noise ratio and the threshold noise ratio is analyzed. The denoised process can effectively improve the detection probability. Therefore, two-level denoising framework with singular value decomposition and adaptive wavelet denoising is proposed. The improved method of selecting singular value based on curvature spectrum is proposed. On this basis, the selection criterion of decomposition level of adaptive wavelet denoising is put forward, and the optimal threshold is obtained by using continuous derivable threshold function and gradient descent. The joint denoising performance of singular value denoising under Gaussian white noise is simulated and analyzed. The echo is that the amplitude of the peak noise is reduced by 10 times on the basis of the

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