

学术报告会

时间: 2012年10月11日(周四) 14:30-15:30

地点: 电院群楼2-406会议室

Finding Areas of Typical Artifacts of Image Enhancement Methods

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Abstract:

A new method to find areas of typical artifacts of image enhancement methods will be presented. The method is based on the analysis of basic edges-sharp edges which are distant from other edges. The proposed method finds two areas related to typical artifacts of image enhancement algorithms: basic edges area and basic edges neighborhood. Effective algorithm to find these areas will be proposed. The approach is illustrated with applications to image resampling, image deblurring and image deringing.

Biography:

Prof. Andrey Krylov is the Head of the Laboratory of Mathematical Methods of Image Processing, Faculty of Computational Mathematics and Cybernetics, Lomonosov Moscow State University. The main current interests include algorithms and metrics for image enhancement, image resampling and superresolution, works in medical image analysis (ophthalmology, US, MRI image analysis, etc.), fast regularization methods for integral transform inversion in image processing (image descriptors construction, time-frequency analysis, etc.)