# Lossless image coding using lossy JPEG codec

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Departmental Seminar

2-26-13

**Abstract:** Most lossless image codec such as JPEG-LS encode an image from scratch. If one already possesses a lossy JPEG compressed image (because JPEG is a lossy method) but desires to reconstruct a lossless image, the whole original image has to be coded from scratch at the source site and then transported. This seminar will present a brand new method that takes the difference of the original image with an image derived from the lossy image in user possession, encodes this difference image by using JPEG algorithm (which is lossy) and yet it is able to create the original image without any losses at the user site.