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An inverse problem in science is the process of calculating from a set of observations the causal factors that produced them: for example, calculating an image in X-ray computed tomography, source reconstruction in acoustics, or calculating the density of the Earth from measurements of its gravity field.

Inverse problem - Wikipedia
Deconvolution is a versatile restoration technique that has been found useful in various contexts such as biomedical signal processing, electro-encephalography, seismic signal (1D), astronomy (2D), or biology (3D).

DeconvolutionLab2: An open-source software for
Radon transform and multiple attenuation CREWES Research Report -Volume 15 (2003) 1 Radon transform and multiple attenuation Zhihong (Nancy) Cao, John C. Bancroft, R. James Brown, and Chunyan (Mary)

Radon transform and multiple attenuation - CREWES
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The causal finite impulse response (FIR) Wiener filter, instead of using some given data matrix X and output vector Y, finds optimal tap weights by using the statistics of the input and output signals.

Wiener filter - Wikipedia
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Figure 1: Toy tasks considered in this paper. The *conv block represents a network comprised of one or more convolution, deconvolution (convolution transpose), or CoordConv layers.

arXiv:1807.03247v1 [cs.CV] 9 Jul 2018
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