Digital Signal Processing

Applications of Digital Signal Processing

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- Signal filtering (e.g. images)
 - denoising (remove noise)
 - inpainting (fill in missing parts)
 - improve quality
- Image compression the DCT transform
- MP3 compression subband coding
- Control theory
 - e.g. controlling a motor to a target speed profile, in various conditions
 - PID controller
- Convolutional neural networks
- Classification problems
 - feature extraction of features
 - classification of features