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- Methods for hybrid and heterogeneous data (X-ray, ultrasound, MRI, CT, and text)
- Novel applications of architectures such as multilayer perceptrons, convolution networks, deep belief networks, and long short term memory.
- Innovative uses of frameworks such as Torch, Caffe, Theano, and TensorFlow.
- Applications of 3D convolution (for MRI, Cat Scan, CT) and NLP networks
- Generative and adaptive models for clinical decision making
- Methods for human body sensor data fusion
- Efficient and relevant feature extraction and representation for data
- Algorithms for large-scale medical image mining and classification
- Novel methods and applications for classification, detection and segmentation in imagery
- Effective organ detection methods
- Medical informatics and public health
- Practical and reliable systems for assistant medical diagnosis
- Precision medicine
- Big data analysis for healthcare management to enhance efficiency and effectiveness

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