

Biologically Inspired Machine Learning

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Abstract: The brain of most complex biological organisms is selective in its processes and discriminative in its selection of the resolution and accuracy which it processes data. Possibly these attributes are responsible for the tremendous efficiency that a brain exhibits (by most estimates, an average human brain consumes as much power as a single light bulb) and the sophistication that it displays in processing visual, auditory and other forms of data. This talk examines each of these attributes in greater detail and provides some examples of the significant benefits that result from adopting these attributes in building machine based intelligence.