

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Electrical Engineering - NOC:Cognition and its Computation

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Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Introduction
- Lecture 2 - Historical Origin of Cognition Studies
- Lecture 3 - The Cognitive Revolution
- Lecture 4 - Anatomical Structures of the Brain
- Lecture 5 - Frontal Lobes and Cognition
- Lecture 6 - Neuropsychological Testing
- Lecture 7 - Eye Tracking and Cognition
- Lecture 8 - EEG, fMRI, MEG
- Lecture 9 - Single neuron level measurements
- Lecture 10 - Single Neuron Imaging and Manipulation of Neural Activity
- Lecture 11 - Introduction to Computation
- Lecture 12 - Currency of Computation in Neurobiology - Action Potential
- Lecture 13 - Synapse and Synaptic Transmission
- Lecture 14 - Synaptic Plasticity
- Lecture 15 - Short Term Plasticity and STDP
- Lecture 16 - Coding by neurons
- Lecture 17 - Sensory Circuits: Visual - I
- Lecture 18 - Sensory Circuits: Visual - II
- Lecture 19 - Sensory Circuits: Auditory - I
- Lecture 20 - Sensory Circuits: Auditory - II
- Lecture 21 - Sensory Circuits: Somatosensory
- Lecture 22 - Sensory Circuits: Olfactory and Gustatory
- Lecture 23 - Motor circuits - Sensory-motor
- Lecture 24 - Reward Circuits
- Lecture 25 - Executive Circuits
- Lecture 26 - Types of Attention, Theories Broadbent Triessman
- Lecture 27 - Alerting Orientation and Executive Network
- Lecture 28 - Disorders of Attention
- Lecture 29 - Basics of Perception - Object, Depth and Movement

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- Lecture 30 - Constancy and Illusions
- Lecture 31 - Neurobiology of attention, Working Memory
- Lecture 32 - Cholinergic System, Bottom up and Top down
- Lecture 33 - Object Recognition
- Lecture 34 - Visual Search and Pattern Recognition
- Lecture 35 - Auditory Scene Analysis, McGurk Effect
- Lecture 36 - Learning Processes
- Lecture 37 - Learning Processes (Continued...)
- Lecture 38 - Memory
- Lecture 39 - Learning Disorders
- Lecture 40 - Memory Failure - Forgetting
- Lecture 41 - Learning in biological neural networks
- Lecture 42 - Examples
- Lecture 43 - Different types of Plasticity
- Lecture 44 - Developmental Plasticity/Learning/Critical Period
- Lecture 45 - Examples of Disorders in Plasticity
- Lecture 46 - Introduction to speech and language (Development)
- Lecture 47 - Components of Speech, Speech Production
- Lecture 48 - Speech Perception
- Lecture 49 - Lessons from Animal Communication
- Lecture 50 - Language and Thought - Speech Language Disorders
- Lecture 51 - Theories of Emotion
- Lecture 52 - Neurophysiology of emotions - Limbic System
- Lecture 53 - Problem Solving
- Lecture 54 - Decision Making
- Lecture 55 - Frontal cortex in decision making
- Lecture 56 - Topics in current research - I
- Lecture 57 - Topics in current research - II
- Lecture 58 - Topics in current research - III
- Lecture 59 - Topics in current research - IV
- Lecture 60 - Topics in current research - V