NPTEL Video Course - Electrical Engineering - NOC:Fuzzy Sets, Logic and Systems and Applications

Subject Co-ordinator - Prof. Nishchal K Verma

Co-ordinating Institute - IIT - Kanpur

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

Lecture 30 - Operations on Crisp and Fuzzy Relations
Lecture 31 - Projection of Fuzzy Relation Set
Lecture 32 - Cylindrical Extension of Fuzzy Set
Lecture 33 - Properties of Fuzzy Relation - I
Lecture 34 - Properties of Fuzzy Relation - II
Lecture 35 - Extension Principle
Lecture 36 - Composition of Fuzzy Relations
Lecture 37 - Properties of Composition of Fuzzy Relations
Lecture 38 - Fuzzy Tolerance and Equivalence Relations - I
Lecture 39 - Fuzzy Tolerance and Equivalence Relations - II
Lecture 40 - Fuzzy Tolerance and Equivalence Relations - III
Lecture 41 - Linguistic Hedges
Lecture 42 - Linguistic Hedges and Negation/ Complement and Connectives
Lecture 43 - Concentration and Dilation and Composite Linguistic Term and Some Examples
Lecture 44 - Dilation and Composite Linguistic Term and Some Examples
Lecture 45 - Some Examples on Composite Linguistic Terms
Lecture 46 - Contrast Intensification of Fuzzy Sets
Lecture 47 - Orthogonality of Fuzzy Sets
Lecture 48 - Fuzzy Rules and Fuzzy Reasoning - I
Lecture 49 - Fuzzy Rules and Fuzzy Reasoning - II
Lecture 50 - Fuzzy Inference System
Lecture 51 - Mamdani Fuzzy Model - I
Lecture 52 - Mamdani Fuzzy Model - II
Lecture 53 - Mamdani Fuzzy Model - III
Lecture 54 - Example on Mamdani Fuzzy Model for Single Antecedent with Three Rules
Lecture 55 - Example on Mamdani Fuzzy Model for Two Antecedents with Four Rules
Lecture 56 - Larsen Fuzzy Model - I
Lecture 57 - Larsen Fuzzy Model - II
Lecture 58 - Larsen Fuzzy Model - III
Lecture 59 - Tsukamoto Fuzzy Model
Lecture 60 - TSK Fuzzy Model