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As Follows: (1) In Above Formula,  $X$  Is The Feature Data To Be Clustered;  $M$  Is The Center Of Each Cluster;  $U$  Jul 2th, 2024

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<sup>1</sup>Dept. Of EEE, International University Of Business Agriculture And Technology, Bangladesh May 1th, 2024

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6) If No Data Point Is Assigned To A New Cluster The Run Of Algorithm Is Stopped, Otherwise The Steps From 3 To 5 Are Repeated For Probable Movements Of Data Points Between The Clusters. 2.2. Fuzzy C-means Algorithm FCM Algorithm May 1th, 2024

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Cluster. Hence, Fuzzy K-mean Clustering [1] (also Known As Fuzzy C-means Clustering) Given By Bezdek Introduced That Each Point Has A Probability Of Belonging To A Certain Cluster. A Coefficient Value Associated With Every Point Gives The Degree Of Being In The Kth Cluster And Coefficient Values Should Sum To One. Feb 1th, 2024

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