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Data Analysis: Statistical Modeling and Computation in Applications

Help

sandipan_dey

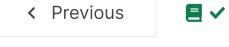Course   Progress   Dates   Discussion   Resources

Course / Module 3: Network Analysis / Spectral Clustering

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1. Learning Objectives

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In this lecture, we will

- Describe the use and purpose of **Steiner trees** .

- Learn how to construct an **approximate Steiner tree** solution.

- Introduce the notion of **clustering** .

- Introduce **graph Laplacian** matrix.

- Conceptualize mathematically an **ideal** version of clustering as an optimization problem.

- Relax the ideal clustering problem to obtain a computationally tractable problem.

- Understand the importance of **eigenvalues and eigenvectors** of the graph Laplacian and learn **spectral clustering** .

- Introduce **modularity maximization** for the purpose of clustering.
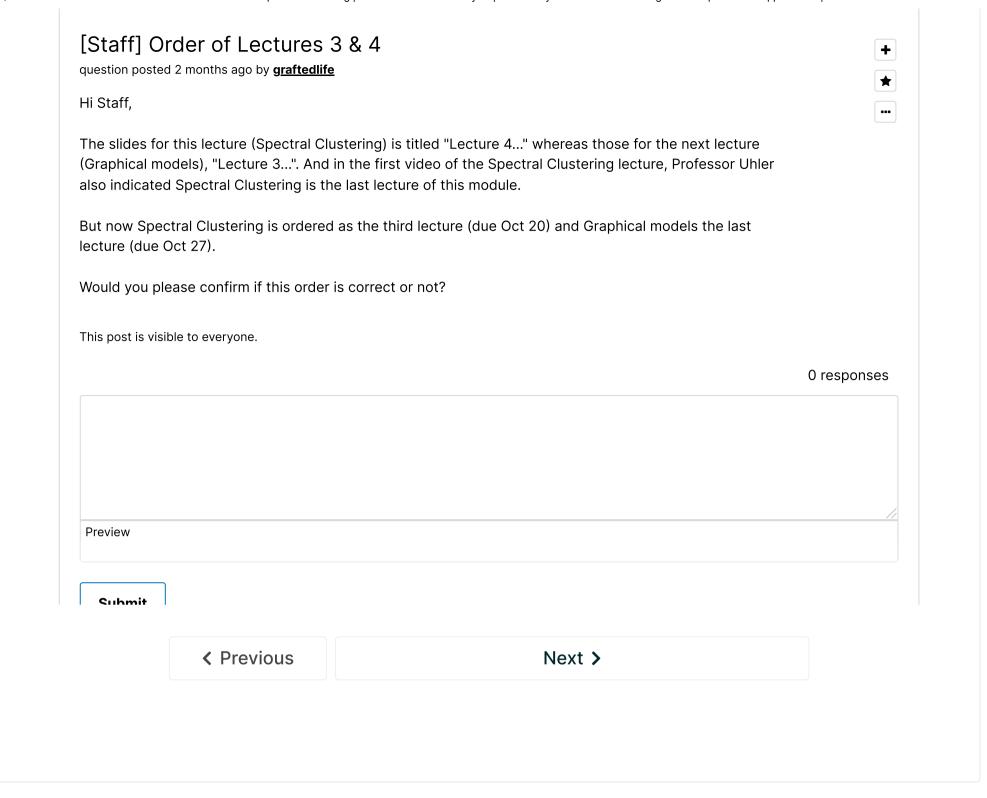
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Discussion

Topic: Module 3: Network Analysis:Spectral Clustering / 1. Learning Objectives

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[Staff] Order of Lectures 3 & 4

question posted 2 months ago by **graftedlife**

Hi Staff,

The slides for this lecture (Spectral Clustering) is titled "Lecture 4..." whereas those for the next lecture (Graphical models), "Lecture 3...". And in the first video of the Spectral Clustering lecture, Professor Uhler also indicated Spectral Clustering is the last lecture of this module.

But now Spectral Clustering is ordered as the third lecture (due Oct 20) and Graphical models the last lecture (due Oct 27).

Would you please confirm if this order is correct or not?

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