

Course objectives • By the end of this module, you will be able to answer the following questions: - What is clustering? - What is the significance of learning clustering algorithms? Copyright © by Prof. Junghyun Kim, School of Applied Artificial Intelligence, Handong Global University

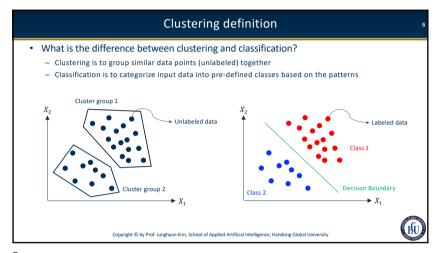
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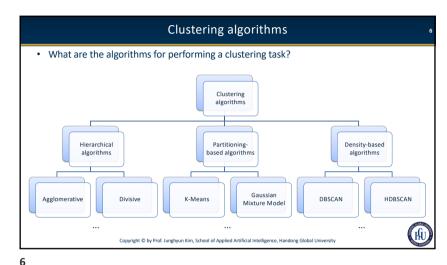
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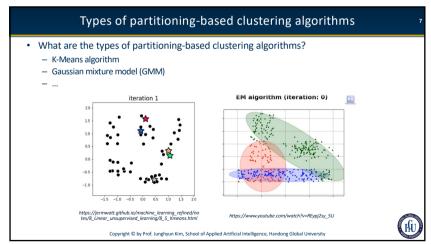
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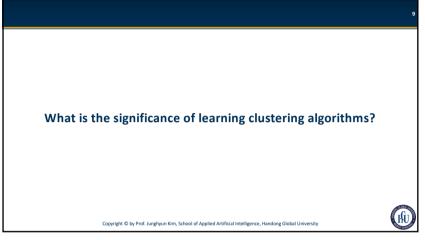


Clustering definition What is clustering? - It is the process of identifying similar data points and assigning them to clusters Unlabeled data Copyright © by Prof. Junghyun Kim, School of Applied Artificial Intelligence, Handong Global University









Clustering algorithms are used in a wide variety of applications including:

Flight data analysis

Vertiport placement

Anomaly detection

Image segmentation

Customer segmentation

Social network analysis

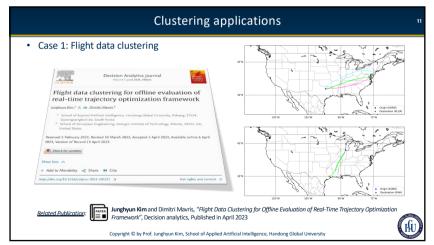
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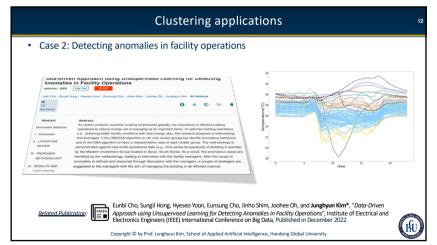
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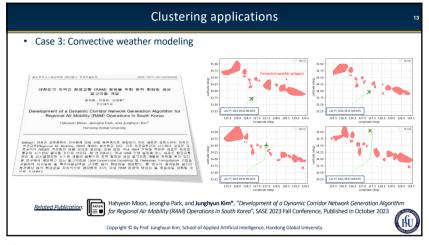
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**Case 4: Vertiport placement

**Data-Driven Approach Toward Airspace Design for Regional Air Mobility Operations in Koren

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