



General

FORUM

Announcements

ATTENDANCE



Presensi Data Mining

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RPS Data Mining

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Pada mata kuliah ini, mahasiswa belajar tentang pengenalan data dan melakukan praproses terhadap data dan analisis terhadap pola yang sering muncul. Kemudian, mahasiswa dapat menerapkan algoritma untuk menyelesaikan persoalan klasifikasi dan klasterisasi termasuk mengetahui perkembangan riset di bidang data mining.

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Pertemuan 1 : Pendahuluan

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Pengantar Data Mining

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- Manusia memproduksi beragam data yang jumlah dan ukurannya sangat besar (Astronomi, Bisnis, Kedokteran, Ekonomi, Olahraga, Cuaca, Financial dll)

- Kebanjiran Data tapi Miskin Pengetahuan (We are drowning in data, but starving for knowledge! (John Naisbitt, Megatrends, 1988))
- Data harus kita olah menjadi pengetahuan supaya bisa bermanfaat bagi manusia

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Pengantar Data Mining 

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Pertemuan 2 : Data Mining (Concepts and Techniques)

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Types of Data Sets 

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Types of Data Sets : Record, Graph and network, Ordered, Spatial, image and multimedia

Important Characteristics of Structured Data :

Dimensionality (Curse of dimensionality)

Sparsity (Only presence counts)

Resolution (Patterns depend on the scale)

Distribution (Centrality and dispersion)

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Peran Utama dan Metode Data Mining 

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Pertemuan 3 : Preprocessing

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Data Preprocessing 

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Data Preprocessing: An Overview (Data Quality, Major Tasks in Data Preprocessing)

Data Cleaning

Data Integration

Data Reduction

Data Transformation and Data Discretization

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Pertemuan 4 : Proses dan Tools Data Mining

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Proses Data Mining 

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- Proses dan Tools data Mining
- Penerapan proses data mining
- Evaluasi model data mining

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Pertemuan 5 : Penerapan Proses Data Mining

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Proses Data Mining 

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1. Himpunan Data
2. Metode Data Mining
3. Pengetahuan
4. Evaluation

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Pertemuan 6 : Evaluasi Model Data Mining

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Evaluasi model data mining 

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- Data training untuk pembentukan model
- Data testing digunakan untuk pengujian model
- Pemisahan data training dan testing

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Pertemuan 7 : proses Data Mining Berbasis Metodologi CRISP-DM

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CRISP-DM 

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- Business understanding
- Data understanding
- Data preparation
- Modelling
- Evaluation
- Deployment

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Pertemuan 8 : Ujian Tengah Semester (UTS)

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Classification

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Classification Basic Concepts 


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Retrieved from:

Data Mining: Concepts and Techniques

Han, Jiawei, Jian Pei, and Hanghang Tong. *Data mining: concepts and techniques*. Morgan Kaufmann, 2022.

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Classification: Advanced 

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Retrieved from:

Data Mining: Concepts and Techniques

Han, Jiawei, Jian Pei, and Hanghang Tong. *Data mining: concepts and techniques*. Morgan Kaufmann, 2022.

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Clustering

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Clustering: Basic Concepts 

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Retrieved from:

Data Mining: Concepts and Techniques

Han, Jiawei, Jian Pei, and Hanghang Tong. *Data mining: concepts and techniques*. Morgan Kaufmann, 2022.

FILE

Clustering: Advanced 


Mark as done

Retrieved from:

Data Mining: Concepts and Techniques

Han, Jiawei, Jian Pei, and Hanghang Tong. *Data mining: concepts and techniques*. Morgan Kaufmann, 2022.

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Data Mining Trends and Research Frontier

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Outlier Analysis 

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Data Mining: Concepts and Techniques

Han, Jiawei, Jian Pei, and Hanghang Tong. *Data mining: concepts and techniques*. Morgan Kaufmann, 2022.

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Administration



Course administration

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2324-01-TKE3114 JARINGAN SYARAF TIRUAN

2324-01-TKR410618 DATA MINING

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General

Pertemuan 1 : Pendahuluan

Pertemuan 2 : Data Mining (Concepts and Techniques)

Pertemuan 3 : Preprocessing

Pertemuan 4 : Proses dan Tools Data Mining

Pertemuan 5 : Penerapan Proses Data Mining

Pertemuan 6 : Evaluasi Model Data Mining

Pertemuan 7 : proses Data Mining Berbasis Metodolo...

Pertemuan 8 : Ujian Tengah Semester (UTS)

Classification

Clustering

Data Mining Trends and Research Frontier

2324-01-TKE2109 PRAKTIKUM DASAR ELEKTRONIKA

2324-01-TKE3108 SISTEM LINEAR

Courses

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