

Lecture 1: Introduction

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Mathematics for Machine Learning KAIST EE

MONTH DAY, 2021

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Outline



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Basic Notations



- Scalars: $a, b, c, \alpha, \beta, \gamma$
- Vectors: **x**, **y**, **z**
- Matrices: X, Y, Z
- Sets: A, B, C
- (Ordered) tuple: $B = (b_1, b_2, b_3)$
- Matrix of column vectors: $\mathbf{\textit{B}} = [\mathbf{\textit{b}}_1, \mathbf{\textit{b}}_2, \mathbf{\textit{b}}_3]$
- Set of vectors: $\mathcal{B} = \{ extbf{\emph{b}}_1, extbf{\emph{b}}_2, extbf{\emph{b}}_3 \}$
- \mathbb{R} , \mathbb{C} , \mathbb{Z} , \mathbb{N} , \mathbb{R}^n

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Questions?

Review Questions



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