

COURSE MATTERS

Chia-Ping Chen

Professor

National Sun Yat-sen University

Department of Computer Science and Engineering

Linear Algebra

- System of Linear Equations
- Vector and Matrix
- Space
- Orthogonality and Projection

- Determinant
- Eigenvalue Problem
- Positive-definite Matrix

- Grading participation/quiz (20) midterm (30) final (50)
- Website slides, announcements
- LINE group
- TA
- Tutor

- Artificial Intelligence (AI)
 - Machine learning
 - Deep learning

- Multimedia Information Technology (MIT)
 - audio
 - text
 - image

$$\underbrace{\mathbf{V}}^{n \times m} = \underbrace{\mathbf{W}}^{n \times r} \underbrace{\mathbf{H}}^{r \times m}$$

Lee and Seung, "Learning the parts of objects by non-negative matrix factorization", Nature, 1999