



Course Introduction to Advanced Artificial Intelligence

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TA Information

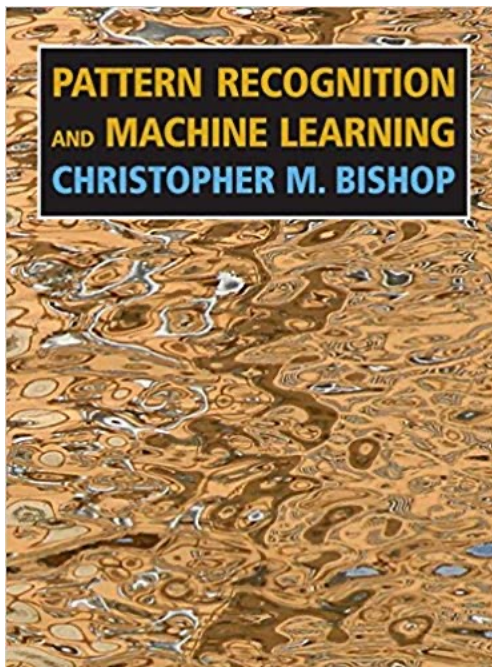
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FTP

- FTP地址: <ftp://172.18.166.144/>
- 账号: 2024_course 密码: 2024
- 课程课件可从课件文件夹下载, 大作业请上传至作业指定文件夹

Textbooks

- *Pattern Recognition and Machine Learning*. Bishop. Springer, 2006
- 机器学习, 周志华, 清华大学出版社, 2016



Course Content

- Basics of Deep Learning
- Visual Representation Learning
- Natural Language Representation Learning
- Visual Representation Learning from Language Supervision
- Latent-variable Model: Inference & Training
- Variational Autoencoder
- Generative Adversarial Networks
- Diffusion Models

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Understanding

Generation

- Semi-supervised Learning
- Visual Understanding in Open-vocabulary World

Guanbin Li

- Causal Inference
- Large Language Models

Hanjiang Lai

Grading Criteria

- Two course reports, with each worth 40 points
- Class Performance worth 20 points