

CS-E407522 - Special Course in Machine Learning, Data Science and Artificial Intelligence D: Introduction to Geometric Deep Learning, Lectures, 24.10.2024-13.2.2025

This course space end date is set to 13.02.2025

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Syllabus

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Course

Grades

Course feedback

Writing assignments

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Paper 1
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Paper 2
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Session 2.1: Deep Sets and Pointnet
- 📄

Session 2.2: Spherical CNNs
- 📄

Session 3.1: Steerable CNNs
- 📄

Session 3.2: SE(3)-Transformers: 3D Roto-Translation Equivariant Attention Networks
- 📄

Session 4.1: E(n) Equivariant Graph Neural Networks
- 📄

Session 4.2: A General Theory of Equivariant CNNs on Homogeneous Spaces
- 📄

Session 5.1: SE(3)-Stochastic Flow Matching for Protein Backbone Generation
- 📄

Session 5.2: Latent Space Oddity: on the Curvature of Deep Generative Models
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Session 6.1: Riemannian Diffusion Models
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Session 6.2: Flow Matching on General Geometries

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