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 **Search Courses: CS-E407522**

Syllabus

Course schedule

Period II

Every Thursday from 14:15-16:00 in room TU4 in Maarintie 8 (TUAS building).

Week 1 (24.10.2024)

- Session 1: Lecture 1 "Introduction to the course"
- Session 2: Lecture 2 "Group theory"

Week 2 (31.10.2024)

- Session 3: Lecture 3 "Graph neural networks, part I"
- Session 4: Lecture 4 "Graph neural networks, part II"

Week 3 (7.11.2024)

- Session 5: Solution session "Graph neural networks assignment"
- Session 6: Lecture 5 "Symmetries and Equivariance"

Week 4 (14.11.2024)

- Session 7: Solution session "Symmetries and Equivariance assignment"
- Session 8: Lecture 6 "Manifold Learning and Differential Geometry, part I"

Week 5 (21.11.2024)

- Session 9: Lecture 7 "Manifold Learning and Differential Geometry, part II"
- Session 10: Paper presentation, TBA

Week 6 (28.11.2024)

- Session 11: Solution session "Manifold Learning and Differential Geometry assignment"
- Session 12: Paper presentation, TBA

Period III

Week 7 (9.01.2025)

- Session 13: Paper presentation, TBA
- Session 14: Paper presentation, TBA

Week 8 (16.01.2025)

- Session 15: Paper presentation, TBA
- Session 16: Paper presentation, TBA

Week 9 (23.01.2025)

- Session 17: Paper presentation, TBA
- Session 18: Paper presentation, TBA

Week 10 (30.01.2025)

- Session 19: Paper presentation, TBA
- Session 20: Paper presentation, TBA

Week 11 (6.02.2025)

- Session 21: Paper presentation, TBA
- Session 22: Paper presentation, TBA

Week 12 (13.02.2025)

- Session 23: Paper presentation, TBA
- Session 24: Paper presentation, TBA

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Evaluation