

EGID SEMINAR

October 25th, 2024 from 11.00 am to 12.00 pm




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Machine Learning in Biology and Health: Data and Prior Knowledge

Machine learning methods have seen significant development in recent years, providing complementary perspectives to traditional data analysis approaches. In the case of very large datasets, uncovering hidden rules can (in some cases) allow an algorithm to generate highly accurate predictions (medical prognosis, risk assessment, anomaly detection, etc.). However, for smaller cohorts, new methodological challenges arise, particularly in integrating prior knowledge into algorithms to enrich the information contained in the data. We will discuss examples of such applications in biology and health, drawing on both experimental data and structured prior knowledge.

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