

CS-723

Topics in Machine Learning Systems

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Cursus	Sem.	Type
Computer and Communication Sciences		Obl.

Language of teaching	English
Credits	2
Session	
Exam	Multiple
Workload	60h
Hours	28
Courses	14
TP	14
Number of positions	

Frequency

Every year

Remark

Next time : Fall 2020

Summary

This course will cover the latest technologies, platforms and research contributions in the area of machine learning systems. The students will read, review and present papers from recent venues across the systems for ua ML spectrum.

Content

The course will cover recent papers from the literature in the emerging area of ML systems. With the emergence of massive data and data science, machine learning is widely applicable in a variety of usage scenarios with high performance, accuracy and cost being key design goals. The latter not only has implications for algorithms but also platforms from software to hardware to enable collective optimization of the design metrics. The topic is inherently multidisciplinary and will cover papers from a variety of conferences in computer science subfields (e.g., ICML, NIPS, ICLR, KDD, VLDB, SIGMOD, SOSP, OSDI, SysML, ASPLOS and ISCA).

Keywords

ML Systems

Learning Prerequisites**Required courses**

Graduate level course in architecture, databases, systems.