INFORMATION ARCHITECTURE

19.10.-23.10.2015
2 ECTS

Seminar Week October 2015
-- *Teaching not Coding//*

In this seminar week you will get handed your own artificial intelligence you need to take care for. You will spend four days to train it in criticising architecture the way you would do it yourself. And finally you will set it free to examine its exhaustive results.

At first the lectures and exercises will address the topic of how to automatically create a good overview when multiple design alternatives are given. This seminar will start with introducing the technique of classification as powerful way of sorting all kinds of things. The first few lessons will shed a light on the math underneath and the easiest ways of applying it. Therefore we will present a special workflow of scanning self-made design sketches and handmade heat maps to automatically create collages out of it. This allows to find similarities in different designs or built environments and further to tag those automatically.

In a second block, the participants will use the presented method to work on their own machine learning system – the personal AI. They will deepen their knowledge in how to automatically compare multiple design alternatives and how to interpret the results for enriching their concepts. This block is interwoven with lessons regarding additional use cases, data acquisition and theoretical discussions.

Where
HIT H 31.4 (Video wall)

Supervision
Prof. Gerhard Schmitt   gerhard.schmitt@arch.ethz.ch
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19.10.2015 9:00 - 12:00	**Introduction to Classification** Background Lecture and Discussion	
19.10.2015 13:00 - 18:00	**First Steps & Introduction to the Environment** Creating Examples in Grasshopper and Processing	
20.10.2015 9:00 - 12:00	**Deep Insight & The Math underneath** Data Mining Tutorial with Lunch Discussion	
20.10.2015 13:00 - 18:00	**What Now?! Automatic Collage Example** Discussions, Q&A Session	
21.10.2015 9:00 - 12:00	**Hack The Planet!** Black Hat, White Hat, Brainstorming Discussions and Team Building	
21.10.2015 13:00 - 18:00	**Resources & Applied Classification** Where to get the stuff you need	
22.10.2015 9:00 - 12:00	**Mentored Project Work** Real Time Feedback and Emergent Discussions	
22.10.2015 13:00 - 18:00	**Mentored Project Work** Real Time Feedback and Emergent Discussions	
23.10.2015 9:00 - 12:00	**Mentored Project Work** Real Time Feedback and Emergent Discussions	
23.10.2015 13:00 - 18:00	**Finalization, Exhibition and Apéro** Additional References, Guidance and Contacts	
Requirement	All you need to provide for this trip is as healthy amount of motivation and a notebook running windows.	

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