



Workshop «Introduction to recursive machine learning algorithms»

This workshop is a “hands-on” introduction to machine learning methods that “use data as it arrives”. The algorithms update their internal states with every new piece of information, and produce estimates of non-measured or derived magnitudes. Some of the algorithms might revise the information already stored to improve those estimations.

Due to its requirements the workshop is suited for advanced students, master students, or professionals that need to understand these type of algorithms.

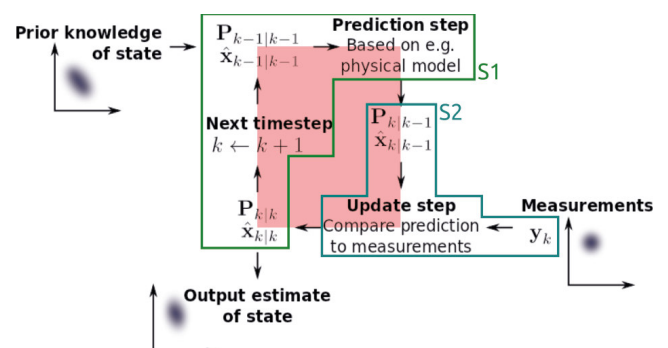
Duration	3 days
When	13.01.2023, 20.01.2023, 27.01.2023, 9.00 - 17.15 Uhr
Place	OST, Campus Rapperswil-Jona
Language	English
Participants	10
Fee	CHF 960.--
Topics	Machine learning, online algorithms, Kalman filters
Requirements	English, linear algebra (basic), probability theory (basic), programming experience (beginner), Calculus (integrals and derivatives, basic)

Workshop Structure

The workshop splits the main loop of the Kalman filter algorithm (shaded in red in the image below) in three sessions. Each sessions takes a full day of training.

Session structure. Shaded in red is the main loop of the Kalman filter. Each 1-day session covers a part of it. Source Kalman filter at Wikipedia.

The first session (S1 in the image) covers modeling and the prediction step of the algorithm. The second session (S2 in the image) takes care of the update state which involves concepts from probabilities and the Bayes rule. The last session (not shown in the figure) is about using the algorithm in different applications; some brought by the participants.



KONTAKT / ANMELDUNG

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