



Dartfish is a global player in sports data analytics. Dartfish has a computer vision system that is recently used in the AXA Arena in Winterthur. Using that system, Dartfish has been tracking floorball games for a while and has managed to provide low level event data from it. However Dartfish would like to understand which other relevant higher level game pattern can be extracted from their data.

The students used the stream processing framework Apache Kafka in order to extract events from the stream of position data. Building on elementary events such as shifts, passes and other calculated metrics such as centroid of the team they were in part able to detect higher level events such as the transitioning of build-up play and attack for example. What seemed to them more relevant for understanding the coaches tactics however, was description of line shifts: Answering relevant questions as: which line of the home team played against which line of the away team and which was the overall time each line was on the pitch during the game (see image below).

The students successfully demonstrated that the Dartfish tracking data was sufficiently valid to extract information potentially relevant for coachess and as well as for explaining floorball tactics to fans.

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