

StreamAR: Incremental and Active Learning with Evolving Sensory Data for Activity Recognition

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Abstract—Activity recognition focuses on inferring current user activities by leveraging sensory data available on today's sensor rich environment. Supervised learning has been applied pervasively for activity recognition. Typical activity recognition techniques process sensory data based on point-by-point

model that is already built. In realistic conditions, change of activities may emerge over time which includes modifying user activities patterns. Current approaches do not allow refinement of the deployed model. Moreover, personalisation of