Evolving Big Data Analytics for RFID Localisation

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Radio frequency identification (RFID) – based tracking technology makes use of data analytics to predict the location of the object based on its Received Signal Strength.

PANFIS, an evolving fuzzy neural network algorithm, was the base model used for training and predicting. Scalable PANFIS was created by utilising the distributed computing capability of Spark and rules merging techniques to speed up training and deal with large volume of streaming data.