5G Smart Networks: Digital Twins

What is a digital twin (DT)?

Virtual replicas of (usually) physical objects or systems

Digital twins (DTs) are a new concept being adopted in many different industries. In research being carried out at the University of Exeter, the Wu Lab team are designing a DT for 5G (and beyond 5G)



learning method, data represented on a graph



Potential application of this research

Interactive digital twin of the network...

Ideal for complex

Identify

between

connections

slices, nodes,

infrastructure

& changeable

data

artificial neural network: many layers of processing



... to help network designers / operators **monitor** + **improve** network performance

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