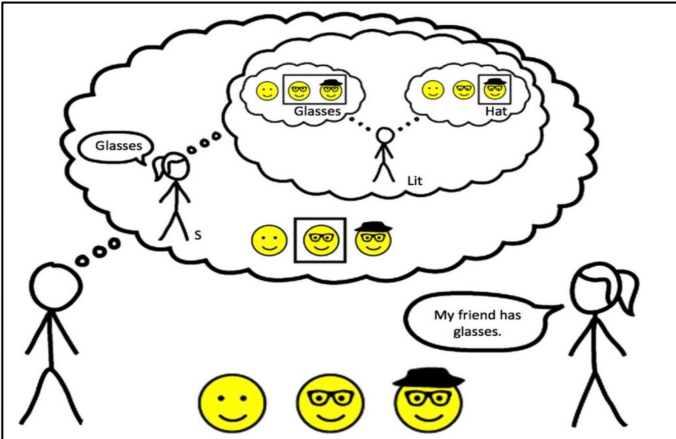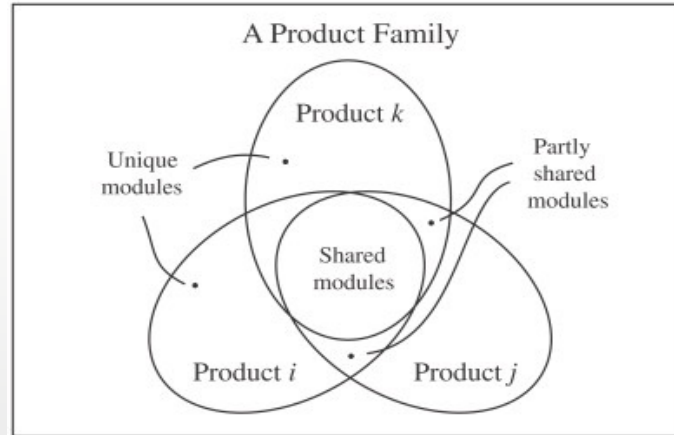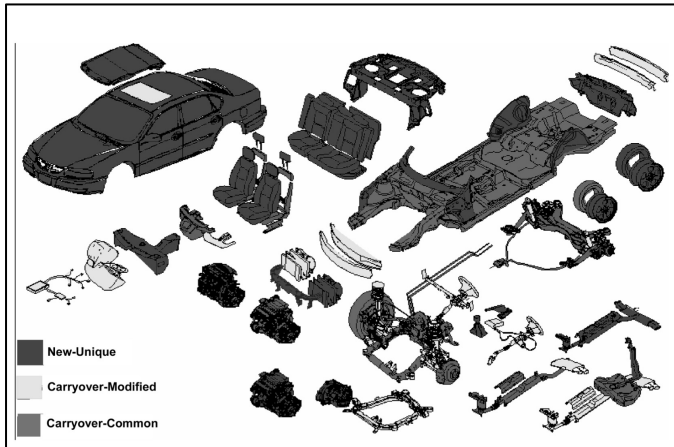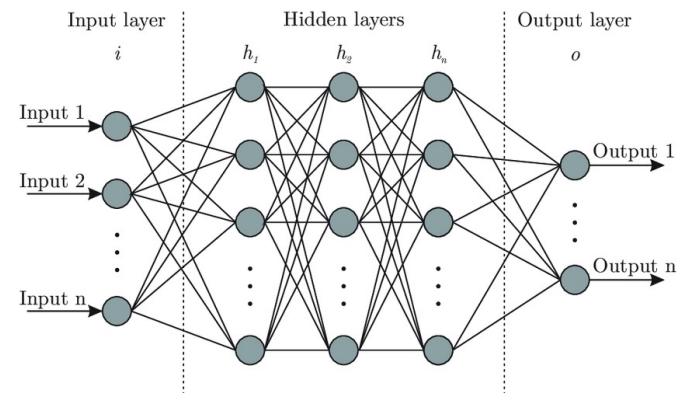# Product family (platform) design & AI

AI

Product family

- Recent only focus on NLP & CV

- limitation of other domains adaptation

**Lots of interesting points!
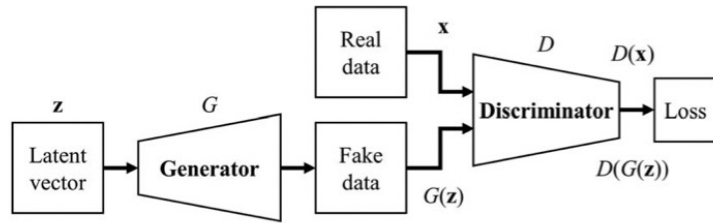(From input to output)**

Domain Adaptation

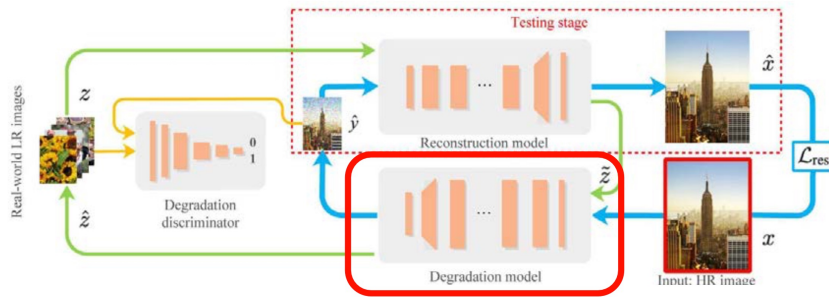| INPUT	Model & output

NO data (I want to use data for AI, but where?)

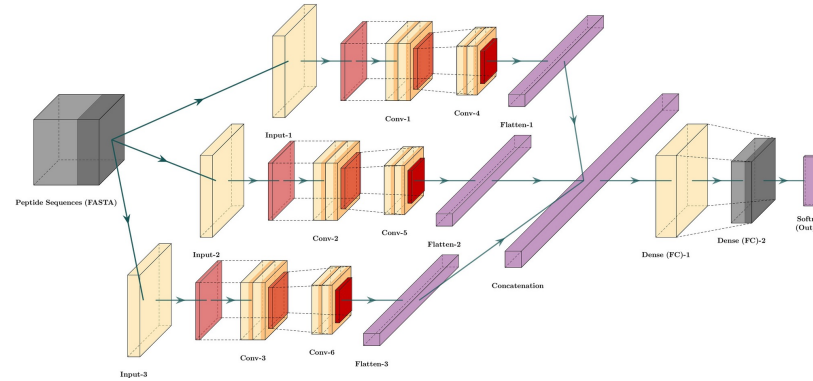Ex) i) Tire tread pattern
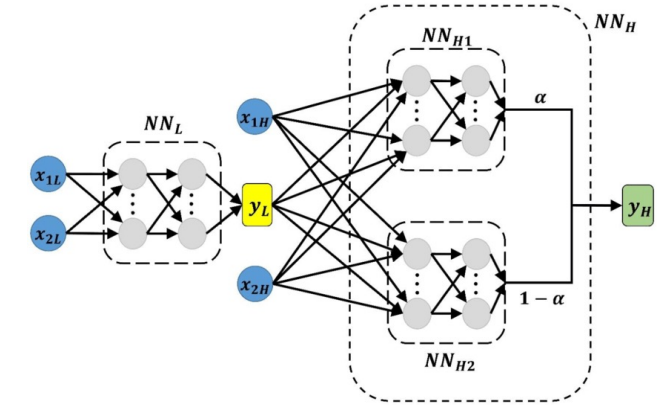ii) Image super-resolution

GAN

Ex) Un(Semi)-supervised SR

Multi input & Multi-flow (commonality & variability)

Multi input

Multi-flow

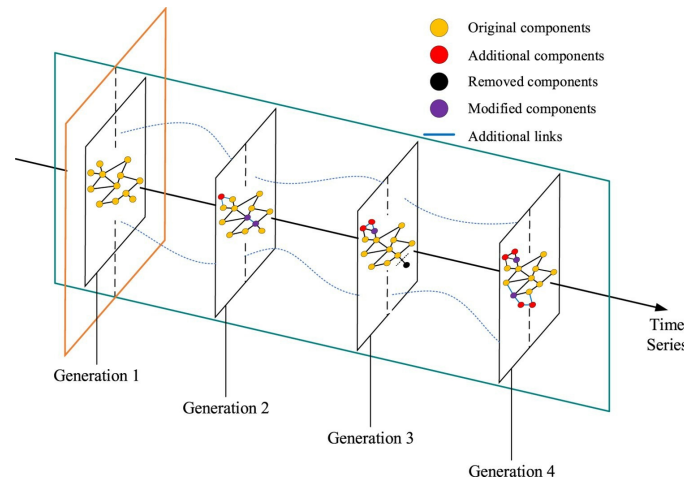**Time-dependent neural network (similar with RNN but different)**

Product (family) evolution

RNN (LSTM)