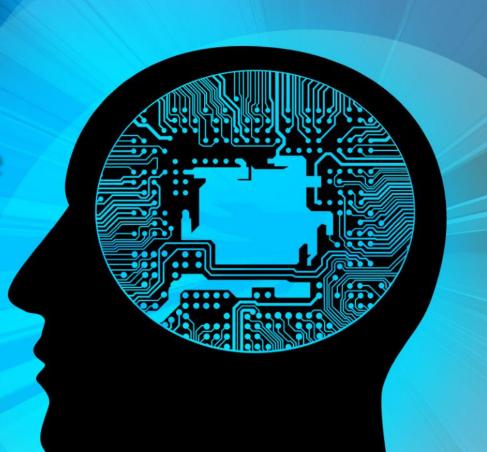# Artificial Intelligence In Networking

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Agenda

- Why are we here?

- Presentations

  - Network for AI (Lijuan Chen)

  - Artifacts for Intelligence Driven Networks (Pedro Martinez-Julia)

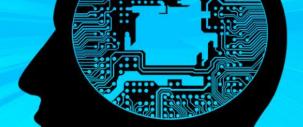- Summary of the options
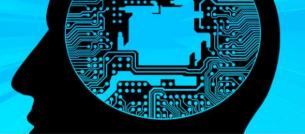
- Future steps

Why are we here?

- IETF 101 HotRFC

- More and more discussions around AI and networking

- Should our IRTF/IETF community take notice?

Summary of the options

- Current low hanging fruit
  - Take AI algorithms
  - Apply them to a networking problem
  - See what happens
- More interesting
  - Develop network-specific AI-ML with topic expertise to solve a problem
  - In turn then let these algorithms learn from the network and produce new network paradigms (get rid of the IETF)
- Another interesting approach:
  - Add computing to the network
  - See how that functionality can support and help AI algorithm to perform network tasks
  - In turn see how the AI algorithms can in turn influence the behavior of the computing element
- Common issue centralized vs. decentralized approaches in terms of:
  - CPU, energy, sustainability etc.
  - Federation/synchronization
  - Performance

Next steps

How do we move forward?