

SIG Name: AI Embedded Cognitive Networks (AICN)

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Objectives and Scope of the Special Interest Group

With advances in machine learning, including deep neural networks and probabilistic graph models, a new wave of Artificial Intelligence(AI) breakthroughs is making it possible for computing technology to do many tasks thought to be futuristic. AI has recently attracted significant attentions in the Telecom domain, both from the carrier side and the equipment vendor side. This is due to the fact that operators are sitting on gold mines of networked data and there are strong demands for methods, algorithms, and tools that are developed to detect network anomalies, optimize the network RF coverage, improve the customer experience, and gain other actionable insights from the massive amount of data set. The ultimate goal is to make the communication network self-adaptive, self-managed, and truly cognitive. Toward this end, we have formed the AICN SIG group to provide a platform for researchers, data scientists, computer scientists to share their ideas, key technologies, and latest results in the area of AI embedded cognitive networks.

Activities

- The AICN SIG sponsors and promotes a wide range of activities, including technical publications in leading IEEE Journals, organizing workshops in flagship conferences such as ICC, Globecom, Infocomm, and IEEE BigData.
- We will host *IEEE workshop - Data Science for Networking (DS4N)* in 2017 IEEE International Conference on Big Data. We plan to organize our second workshop in 2018 IEEE International Conference on Communications or 2018 IEEE Globecom. We will also submit a proposal to IEEE leading journals, e.g., IEEE JSAC, IEEE Transactions on Big Data, IEEE Internet of Things, or IEEE Transactions on Cognitive Communications and Networking, etc by the end of 2017.
- We will invite high profile researchers to give talks and tutorials to IEEE members, students, researchers, and engineers in this community.

Founding members

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