

# 2017

**Report by IEEE TCCN  
SIG on AI Embedded Cognitive Networks (AICN)**

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## Objective and Scope

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.



**Officers and Advisors****Officers :**

Dr. Kai Yang, Tongji University,  
Dr. Sijia Liu , University of Michigan  
Dr. Yanjia Sun , Huawei Research, USA  
Dr. Yasin Yilmaz University of South Florida, USA  
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**Advisors :**

Dr. Alfred Hero , University of Michigan  
Dr. Yingchang Liang , University of Sydney

**Founding Members**

Dr. Richard Gitlin, University of South Florida, USA, IEEE Fellow, National Academy of Engineering Member  
Dr. Alfred Hero, University of Michigan, USA, IEEE Fellow  
Dr. Yingchang Liang, University of Sydney, IEEE Fellow  
Dr. Kwang-Cheng Chen, University of South Florida, USA, IEEE Fellow  
Dr. Huseyin Arslan, University of South Florida, USA, IEEE Fellow  
Dr. Ismail Guvenc, North Carolina State University, USA  
Dr. Biao Chen, Professor, Syracuse University, USA, IEEE Fellow  
Dr. Engin Masazade, Yeditepe University, Turkey  
Dr. Hao Chen, Boise State University, USA  
Dr. Pin-Yu Chen, Research Scientist, AI Foundations Lab IBM Thomas J. Watson Research Center, USA

**1 NAE member + 6 IEEE Fellows**

**Members from both academia and industry**

*Established on June 2017*

01

YOUR TEXT

2017 IEEE Workshop Data Science for Networking (DS4N)  
<https://ds4n.github.io/>  
To be held on December 14, 2017 in Boston, USA

**Workshop Chairs: Hui Zang, Huawei Technologies, USA,  
Kai Yang, Tongji University, China  
Jin Yang, Huawei Technologies, USA**

02

YOUR TEXT

Special Issue on AI Enabled Cognitive Communications and  
Networking

In Preparation

2017

**Thanks**