IEEE ICC 2018 Keynotes Review

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Agenda: Keynotes

• “Getting more than just higher data rates with 5g” by Dr. James H. Thompson, CTO, Qualcomm.

• “Programmable forwarding planes are here to stay” by Professor Nick McKeown, Stanford University.

• “Security and privacy in the IoT” by Professor Elisa Bertino, Perdue University.

• “Bring 5g into reality” by Yongxing Zhou, VP, Huawei.
Summary

• 5G is here, but to enable 5G use cases requires more innovation and research: Massive IoT, Automated vehicle, Industrial robots, AR/VR.

• Low latency applications (AR/VR, Industrial Robots, V2X) can’t be handled all in Cloud. Such applications can’t be hosted in local machines as well. This makes Edge computing/Edge network, only possible solution.

• On demand intelligence is becoming very important. We need low latency infrastructure closer to user to complement Cloud.

• Programable forwarding plane (P4, PISA) will change the way we design network devices and protocols. This will bring more innovation to the field.

• Smart and wearable mobile devices, IoT introduces new security and privacy concerns.

• 5G and supported features will unlock trillions of dollars worth industry via connectivity and automation.