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 usecases 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.