

Innovation at the edge and role of IoT 2.0

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In a world with billions of connected devices, computation and communication at the edge is becoming ubiquitous. The low-power IoT market saw its naissance in earnest more than 20-years ago with the launch of the first commercial Bluetooth device. Today, IoT connections are growing at an average rate of 20% per year with no end in sight. The exponential rise in the demand for IoT devices necessitates significant innovation in extending battery life, improving wireless range, increasing performance, and reducing form factors – all within a limited power budget. This talk will highlight innovations in process technology, circuit design, system architecture, and wireless standards that have all collectively enabled the market growth of IoT systems and edge-based platforms. Future innovations required to address new challenges and emerging edge applications will also be explored.



Danielle Griffith has 25 years of experience in the semiconductor industry. She is a Fellow at Texas Instruments in Dallas, Texas, responsible for system architecture of next generation low power wireless connectivity SoCs. Her current focus areas are circuits and architectures for efficient wireless systems, low power oscillators, MEMS circuitry. She has published a book chapter and >50 papers and holds 20 issued US patents. Danielle has given numerous conference tutorial and workshop sessions. She has been a TPC member

for top IEEE conferences, including RFIC, ISSCC, and VLSI. She is a senior member of the IEEE, an associate editor of the IEEE JSSC, and a Distinguished Lecturer of the SSCS. Danielle Griffith received the Bachelors and Masters degrees in electrical engineering from the Massachusetts Institute of Technology.