

Nutaq Announces 5G Massive MIMO Partnership with Université de Sherbrooke

Nutaq announced today a 5G Massive MIMO focused partnership with Dr Sebastien Roy at the Université de Sherbrooke.

QUEBEC, QUEBEC, CANADA, June 6, 2014 /EINPresswire.com/ -- Nutaq announced today a 5G Massive MIMO focused partnership with Dr Sebastien Roy at the Université de Sherbrooke.

The collaboration with Professor Roy and his team will provide wireless developers wishing to exploit the “massive effect” with a reference design comprised of baseband array processing algorithms which can easily scale with the large number of channels required for Massive MIMO applications.

As a result, researchers will be able to

accelerate the achievement of the 5G goal of higher capacity, energy efficient wireless networks by using Nutaq’s [TitanMIMO](#) testbed to design, test, and improve their Massive MIMO algorithms.

The large antenna array receiver processing algorithms will be initially developed on Nutaq’s 16 channels, FPGA-based PicoDigitizer 125 Series, and, due to the modular, scalable nature of the algorithms, will be easily transferable to the TitanMIMO Massive MIMO testbed in a subsequent phase. This reference design will save researchers weeks or even months of development time, allowing them to focus more on specific added value development.

“Nutaq’s Titan MIMO systems will help validate new Massive MIMO concepts in complex multi-path propagation environments in which next generation array receivers will typically operate. The launch of this first project phase will lead us to exploring larger-scale array baseband processing and efficient techniques that can be applied to the TitanMIMO testbed”, said Professor Sebastien Roy, leading the Université de Sherbrooke project.

“Nutaq recognizes the incredible benefits that Massive MIMO can present to help us achieve high capacity wireless networks that will be capable of meeting the 2020 needs of connecting billions of devices. We also understand that balancing these capacity needs with the goal of creating an energy efficient network is a complex task,” said Martin Turgeon, Product Line Manager at Nutaq.

“Our goal with our collaboration with Dr Roy is to develop baseband processing solutions that can



easily scale up for Massive MIMO applications, allowing developers to focus on creating novel algorithms that will optimally exploit the massive effect,” he continued.

For more details on Nutaq’s TitanMIMO Massive MIMO testbed please visit <http://nutaq.com/en/products/titanmimo-4>

About the TitanMIMO Massive MIMO Testbed

The 100x100 TitanMIMO Massive MIMO testbed gives developers the unlimited, real-time throughput they need to bring the entire Massive MIMO channel aggregate into a common processing engine.

About Professor Sebastien Roy, Université de Sherbrooke

Dr Roy has considerable experience in communication theory, wireless communications, array processing, and associated implementation issues. He has designed and supervised the design of various array processing schemes and complete physical layer implementations within FPGA-based platforms. He has also supervised the development of custom advanced RF front-ends, including passive beamformers and RF-level combining. He holds several patents related to array processing and one related to synchronization and channel estimation in OFDM systems.

About Nutaq

For developers focused on signal processing in areas including Defense & Aerospace, Wireless Communications, Scientific, and Medical, Nutaq accelerates the design, testing & deployment of innovative ideas.

Our hardware solutions are designed to optimize programmability, processing power, flexibility & cost, while our model-based design and open source software environment mean projects are delivered with reduced development cycles and lower costs.

Thi Long Do
Nutaq
1-418-914-7484
email us here

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