


Photonic-enabled ultra-high-speed RF analog-to-digital conversion (Technion)

code: COM-1154

Digital signal processing (DSP) has revolutionized modern communications and radar systems and is an integral part of many other industries. For broadband systems, the application of DSP systems is hindered by the difficulty in capturing (digitizing) the wideband signal in real time. Although wideband analog-to-digital converters (ADC) are in high demand, a satisfactory solution doesn't exist yet in the market. This technology utilizes a number of innovations to create systems that easily outperform existing solutions.

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