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## Digital Pulse Processing for Nuclear Research, Security and Applications

Digital sampling technique has become common in many applications as homeland security and nuclear medicine as well as in research fields of nuclear and particle physics. Digital sampling devices can represent multichannel oscilloscopes, but at the same time they can implement algorithms, traditionally operated by analog devices, in Field Programmable Gate Arrays (FPGAs). The success of the digital sampling devices is linked to the ability of their algorithms to be adapted to changing experimental conditions, experimental system upgrades and to operate data reduction through programmable on-board operation. Applications and observed performances of CAEN digital acquisition devices are going to be presented.

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