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Srinivasan. Thomson/Brooks/Cole, 2004 -
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Other digital systems Anti-aliasing filter

ADC $x(n)$ DSP hardware Other digital

systems DAC Reconstruction filter $y(n)$ x

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(t) x(t) Amplifier Amplifier y(t) y (t) Input
channels Output channels ? 5? " ? ?&? ? "
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Real-Time Digital Signal Processing:
Implementations ...

Emphasis is on digital signal processors,

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design implementations on FPGA/ASIC fabrics and test real systems on board, architectures, control, functional units, and circuit topologies for increased performance and reduced circuit size and power dissipation. General Course Description & Objectives

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CMPE 691: Digital Signal Processing
Hardware Implementation

Digital signal processing is the use of digital processing, such as by computers or more specialized digital signal processors, to perform a wide variety of signal processing operations. The digital signals processed in this manner are a

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Implementations that represent sequence of numbers that represent samples of a continuous variable in a domain such as time, space, or frequency. In digital electronics, a digital signal is represented as a pulse train, which is typically generated by the switching of a transistor. Digital si

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Systems • Textbook: – K.K. Parhi, VLSI
Digital Signal Processing Systems: Design
and Implementation, John Wiley, 1999

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OpenCL (Open Computing Language) is a framework for writing programs that execute across heterogeneous platforms consisting of central processing units (CPUs), graphics processing units (GPUs), digital signal processors (DSPs), field-programmable gate arrays (FPGAs) and other processors or hardware

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accelerators. OpenCL specifies programming languages (based on C99 and C++11) for programming ...

[OpenCL - Wikipedia](#)

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used to filter in the frequency domain; this is frequently the most efficient way to filter a signal.

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Implementations and Applications has been updated to include the latest DSP applications and introduces new development tools. The software design process has been adjusted to enable readers to concentrate on learning DSP fundamentals and innovative applications by relaxing the intensive programming

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efforts, namely, the traditional DSP
assembly coding efforts.

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modems, radar, high-definition television-
these are but a few of the modern

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computer and communications
applications relying on digital signal
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mathematics is minimized for an easier grasp of concepts.

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My research interests are in digital signal processing, sparsity in signal processing, and wavelet-based signal/image/video processing. My recent research focuses on using sparse signal representations and approximations to develop new methods for filtering, signal separation, deconvolution, etc.

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