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Introduction to
Signal
Processing

~~Introduction to
DSP processors~~

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based~~

~~Microcontrollers~~

~~2 of 2 FFT~~

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Transform,~~

~~Fourier Series,
and frequency~~

~~spectrum~~

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~~Sampling,~~

~~Aliasing \u0026~~

~~Nyquist Theorem~~

But what is the

Fourier

Transform? A

visual

introduction.

~~Understanding~~

~~Wavelets, Part~~

~~1: What Are~~

~~Wavelets~~ **Let's**

Build an Audio

Spectrum

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Analyzer in
Python! (pt. 1)
the waveform
viewer. FPGA

audio effects
processor ~~What~~
~~is DSP? Why do~~
~~you need it?~~ #3

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Tutorial:

Understanding
Digital Audio
TMS320C5x DSP

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Architecture |
Digital Signal
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Lab 7 Real Time
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analysis~~

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~~We Decimation
and~~

~~Interpolation in~~

~~DSP | Digital~~

~~Signal~~

~~Processing |~~

~~Downsampling and~~

~~Upsampling~~

Portfolio Series

- Realtime

Digital Signal

Processing (DSP)

Real Time

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Digital Signal Processing

Real-time DSP is currently a very hot subject in today's

engineering fields fuelled by the ever-

increasing demand for high-performance digital signal processors. The

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TMS320C55x is
the latest of
Texas

Instrument's
line of highly
successful DSP
chips, which is
...

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introduces
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principles and
will be updated
to include the
latest DSP
applications,
introduce new
software

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development
tools and adjust
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hands-on
experiments will
be enhanced to
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revised for the

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2nd edition and
remains the only
book on DSP to
provide an
overview of DSP
theory and
programming with
hands-on
experiments
using MATLAB, C
and the newest
fixed-point
processors from
Texas

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Instruments
(TI).

Processing

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Processing has

undergone

enormous growth

in usage/implemente

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last 20 years
and many
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last 20 years
and many
engineering
schools are now
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undergraduate

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curricula. Our everyday lives involve the use of DSP systems in things such as cell phones and high-speed modems; Texas Instruments has introduced the TMS320C6000 DSP processor family to meet the high

...

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the software
design process
to reflect the
latest advances
in the field.

**And
Real-Time
Digital Signal
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by Sen M. Kuo**

...

Real-time
digital signal
processing for

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coherent

reception and
its application
to optical

communications

**And
Real-time**

**digital signal
processing for
coherent**

reception ...

In a real-time
digital signal
processing (DSP)

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process, the analyzed (input) and generated (output) samples can be processed (or generated) continuously in the time it takes to input and output the same set of samples independent of the processing

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delay.

Processing

Real-time

computing -

Wikipedia

This course is about the use of general purpose

digital signal processing

microprocessors

for solving

signal

processing

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problems in real-time. The new version of the course will utilize the ARM Cortex M4 processor family.

Previously the course focus was on using the Texas Instruments (TI) C6x family of

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fixed and
floating
processors, and
in particular
implementing
programs written
in assembly ...

ECE5655 Real- Time DSP

TI's C665x DSPs
offer high
signal
processing

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performance, up to 40 GFLOPs, at power

consumptions targeted for fanless designs.

The fixed and floating point capabilities of the C665x family of devices

provides efficient real-time processing

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of sampled
values in the
small time
windows required
by protection
relays or other
grid monitoring
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Processors |
TI.com

Digital Signal

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Processing

Questions Q1.

Distinguish

Between Linear

Convolution And

Circular

Convolution Of

Two Sequences?

Linear

convolution: If

$x(n)$ is a

sequence of L

number of

samples and $h(n)$

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with M number of samples, after convolution $y(n)$ will have

$N=L+M-1$ samples.

It can be used to find the response of a linear filter.

...

**300+ REAL TIME
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Processing**

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Questions &

Answers

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Kuo, Sen M.,

Lee, Bob H.,

Tian, Wenshun:

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the TMS320C6x
DSPs, Third
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Welch, Thad B.,
Wright, Cameron
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The application
of digital
computation to
signal

processing
allows for many
advantages over
analog
processing in

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Signal
many
applications,
such as error
detection and
correction in
transmission as
well as data
compression.

Digital signal
processing is
also fundamental
to digital
technology, such
as digital telec

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ommunication and
wireless
communications.

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real-time DSP
using a
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by-step
framework that
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