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Chap. 2 2 VLSI Digital Signal Processing Systems • Textbook: - K.K. Parhi, VLSI Digital Signal Processing Systems: Design and Implementation, John Wiley, 1999

VLSI Digital Signal Processing Systems

Adaptive filters are often realized either as a set of program instructions running on an arithmetical processing device such as a Microprocessor or Digital Signal Processing (DSP) chip, or as a set of logic operations implemented in a field programmable gate array (FPGA) or in Very Large Scale Integrated Circuit (VLSI).

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DSP systems can be realized using programmable processors or custom designed hardware circuits fabricated using very-large-scale-integrated (VLSI) circuit technology. The goal of digital design is to maximize the

performance while keeping the cost down.

1.1 Introduction - VLSI Digital Signal Processing Systems ...

VLSI Digital Signal Processing Systems: Design and Implementation, Keshab K. Parhi, ISBN: 978-0471241867, Wiley, 1999. Suggested references The Design Warrior's Guide to FPGAs, Devices, Tools and Flows, Clive "Max" Maxfield, ISBN: 0750676043 Digital Signal Processing with Field Programmable Gate Arrays, Uwe Meyer-Baese, 3rd

CMPE 691: Digital Signal Processing Hardware Implementation

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He joined IIT, Kharagpur as a faculty member in 1994, where he currently holds the position of a professor in Electronics and Electrical Communication Engg. The teaching and research interests of Prof. Chakraborty are in Digital and Adaptive Signal Processing, VLSI Signal Processing, Linear Algebra and Compressive Sensing.

NOC | VLSI Signal Processing

1. ``VLSI Digital Signal Processing Systems'', Keshab K. Parhi, Wiley Eastern 2. ``Digital Signal Processing for Multimedia Systems'', Keshab K. Parhi and Takao Nishitani, Marcel Dekker. 3. ``Pipelined Lattice and Wave Digital Recursive Filters'', J. G. Chung and Keshab K. Parhi, Kluwer.

VLSI Signal Processing - Course

Journal of VLSI Signal Processing, 9, 121-143 (1995), Kluwer Academic Publishers, Boston. Keshab K. Parhi and David G. Messerschmitt, Pipeline Interleaving and Parallelism in Recursive Digital Filters - Part I: Pipelining Using Scattered Look-Ahead and Decomposition.

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