

Embedded Image Processing on the TMS320C6000™ DSP: Examples in Code Composer Studio™ and MATLAB

By Shehrzad Qureshi

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This is an application-oriented book includes debugged & efficient C implementations of real-world algorithms, in a variety of languages/environments, offering unique coverage of embedded image processing.

covers TI technologies and applies them to an important market (important: features the C6416 DSK)

Also covers the EVM should not be lost, especially the C6416 DSK, a much more recent DSP.

Algorithms treated here are frequently missing from other image processing texts, in particular Chapter 6 (Wavelets), moreover, efficient fixed-point implementations of wavelet-based algorithms also treated.

Provide numerous Visual Studio .NET 2003 C/C++ code, that show how to use MFC, GDI+, and the Intel IPP library to prototype image processing applications

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Editorial Review

Review

From the reviews:

"This book focuses on embedded image processing … . Overall, the book is well written and succeeds in filling a big void in image processing literature, tackling how to efficiently implement signal and image processing algorithms using embedded processors. There is no better way to learn than by example, and the book offers plenty of them. The book should be valuable resources to all signal processing practitioners who want to embark on embedded DSP programming." (Konstantinos Konstantinides, IEEE Signal Processing Magazine, May, 2007)

From the Back Cover

Embedded Image Processing on the TMS320C6000™ DSP: Examples in Code Composer Studio™ and MATLAB focuses on efficient implementations of advanced image processing algorithms for resource-constrained embedded DSP systems. Featuring the popular Texas Instruments TMS320C6000™ line of Digital Signal Processors, it utilizes a proven methodology of beginning with a high-level algorithmic point-of-view, proceeding to develop prototype code in MATLAB and Visual Studio, and concluding with an efficient implementation suitable for deployment on an embedded DSP system.

Aside from image processing, the author also explains the uses and rationale behind a plethora of technologies, most notably several industry-standard and essential TI developer technologies, including the Code Composer Studio™ IDE. Highlights include numerous debugged MATLAB and C/C++ Visual Studio prototype applications and efficient C implementations of real-world algorithms tested on both the C6416 DSK and C6701 EVM development platforms.

Embedded Image Processing on the TMS320C6000™ DSP: Examples in Code Composer Studio™ and MATLAB is an essential book for professional signal & image processing engineers working with TI DSPs where real-time constraints are present and performance is at a premium. Imaging software developers and DSP users will also find this book applicable, as it covers a variety of image and signal processing building blocks that appear in a diverse set of real-world applications, including medical imaging, satellite imaging, digital photography, and pattern recognition, to name a few. It may also serve as a reference work for advanced image processing, computer vision, and DSP students working in labs that use TI development kits or MATLAB.

Users Review

From reader reviews:

Samual Larkin:

The book Embedded Image Processing on the TMS320C6000™ DSP: Examples in Code Composer Studio™ and MATLAB make one feel enjoy for your spare time. You need to use to make your capable

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