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duces the concepts of uniform image sampling and intensity quantization. Additional topics discussed in that section include digital image representa-tion, the effects of varying the number of samples and intensity levels in an image, the concepts of spatial and intensity resolution, and the principles of image interpolation.

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Chapter 2 Digital Image Fundamentals The human eye can adapt to enormous range of light intensity levels " on the order of 10 10. The subjective brightness (the intensity perceived by the eye) of the eye is a logarithmic function. Ph t iPhotopic vii i th ii fth d llision is the vision of the eye under well-lit conditions.

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## **GONZFM-i-xxii. 5-10-2001 14:22 Page iii Digital Image**

have uses in numerous other branches of digital image processing. Background As noted in the preceding paragraph, spatial domain techniques operate directly on the pixels of an image. The spatial domain processes discussed in this chapter are denoted by the expression where  $I$  is the input image,  $O$  is the output (processed) image, and

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Anna Fabijańska , Tomasz Wągliński , Krzysztof Zakrzewski , Emilia Nowosawska, Assessment of hydrocephalus in children based on digital image processing and analysis, International Journal of Applied Mathematics and Computer Science, v.24 n.2, p.299-312, 6 2014

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group has formal background in image processing is mostly in the scope of material covered, in the sense that we simply go faster in a graduate course, and feel much freer in assigning independent reading. In addition to the material discussed in the previous section, we add the following material in a graduate course.

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LibraryThing Review User Review - [co\\_coyote](#) - LibraryThing. This is \*the\* best book on digital image processing I have ever read. It is the only book of its kind that I have ever read like a novel, spending one entire Christmas holiday curled up on the couch ...

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