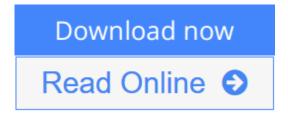# Practical Guide to Machine Vision Software: An Introduction with LabVIEW

By Kye-Si Kwon, Steven Ready

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For both students and engineers in R&D, this book explains machine vision in a concise, hands-on way, using the Vision Development Module of the LabView software by National Instruments.

Following a short introduction to the basics of machine vision and the technical procedures of image acquisition, the book goes on to guide readers in the use of the various software functions of LabView's machine vision module. It covers typical machine vision tasks, including particle analysis, edge detection, pattern and shape matching, dimension measurements as well as optical character recognition, enabling readers to quickly and efficiently use these functions for their own machine vision applications. A discussion of the concepts involved in programming the Vision Development Module rounds off the book, while example problems and exercises are included for training purposes as well as to further explain the concept of machine vision.

With its step-by-step guide and clear structure, this is an essential reference for beginners and experienced researchers alike.

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Practical Guide to Machine Vision Software: An Introduction with LabVIEW By Kye-Si Kwon, Steven Ready Bibliography

- Sales Rank: #2322107 in Books
- Published on: 2015-04-20
- Original language: English
- Number of items: 1
- Dimensions: 9.70" h x .68" w x 6.80" l, .0 pounds
- Binding: Paperback
- 296 pages

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Editorial Review

About the Author
Kye-Si Kwon is an associate professor at Soonchunhyang University in Korea in the department of mechanical engineering. After his PhD, obtained from KAIST, Korea, in 1999, he was a member of research staffs in companies such as Samsung and LG electronics. He joined Soonchunhyang University in 2006 where his teaching and research is centered on inkjet-related measurement methods and system developments. In 2012, he spent one year at Palo Alto Research Center (PARC) in Palo Alto, California, as a visiting researcher. He also established a start-up company and is CEO of PS. Co. Ltd (www.psolution.kr).

Steven Ready joined the Palo Alto Research Center more than two decades ago, where he designed and developed several high-accuracy inkjet printers for printed organic electronics and documents; studied the role of hydrogen in amorphous, polycrystalline, and crystalline silicon and associated applications; and contributed to the development of large-area amorphous and polycrystalline silicon arrays for optical and x-ray imaging, displays, and organic semiconductor materials and devices. Steven Ready has also made significant contributions to developing laser crystallization of silicon thin films; a fragile book scanner; control software for MOCVD reactors; and a scanning tunneling microscope. He is a member of the SPIE, MRS, and IS&T professional societies. He obtained his degree in Physics from the University of California at Santa Cruz.

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