Image Analysis, Classification and Change Detection in Remote Sensing: With Algorithms for ENVI/IDL and Python, Third Edition

By Morton J. Canty

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Image Analysis, Classification and Change Detection in Remote Sensing: With Algorithms for ENVI/IDL and Python, Third Edition introduces techniques used in the processing of remote sensing digital imagery. It emphasizes the development and implementation of statistically motivated, data-driven techniques. The author achieves this by tightly interweaving theory, algorithms, and computer codes.

See What's New in the Third Edition:

Extended theoretical development The material is self-contained and illustrated with many programming examples in IDL. The illustrations and applications in the text can be plugged in to the ENVI system in a completely transparent fashion and used immediately both for study and for processing of real imagery. The inclusion of Python-coded versions of the main image analysis algorithms discussed make it accessible to students and teachers without expensive ENVI/IDL licenses. Furthermore, Python platforms can take advantage of new cloud services that essentially provide unlimited computational power. The book covers both multispectral and polarimetric radar image analysis techniques in a way that makes both the differences and parallels clear and emphasizes the importance of choosing appropriate statistical methods. Each chapter concludes with exercises, some of which are small programming projects, intended to illustrate or justify the foregoing development, making this self-contained text ideal for self-study or classroom use.

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Editorial ReviewReview
"Dr. Canty continues to update his excellent remote sensing book to use modern computing techniques; this time adding scripts in the open source Python complementing his previous IDL/ENVI examples. This is a great reference for those looking to put remote sensing theory into practice."
?Michael Galloy, Tech-X Corporation *"… includes 1) open source (Python) code, making the book more useful to readers without commercial software licenses, and 2) material on polarimetric SAR imagery, an increasingly important field of remote sensing, while continuing to focus on statistically motivated, data driven analysis methods. With this third edition Mort Canty's book has become even more indispensable."*
?Allan Aasbjerg Nielsen, Technical University of Denmark *"… the addition of open source Python code along with IDL will certainly guarantee a larger readership. For students/practitioners in the field of remote sensing who like to program and who prefer in-depth explanations, highly recommended."*
?Gunter Menz,Users Review**From reader reviews:**
Vance Malik:Do you have favorite book? For those who have, what is your favorite's book? Publication is very important thing for us to know everything in the world. Each guide has different aim or goal; it means that guide has different type. Some people sense enjoy to spend their a chance to read a book. They can be reading whatever they have because their hobby is reading a book. How about the person who don't like looking at a book? Sometime, man feel need book whenever they found difficult problem or even exercise. Well, probably you will require this Image Analysis, Classification and Change Detection in Remote Sensing: With Algorithms for ENVI/IDL and Python, Third Edition.
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Colin Wegner:Playing with family in the park, coming to see the marine world or hanging out with pals is thing that usually you will have done when you have spare time, and then why you don't try point that really opposite from that. A single activity that make you not sensation tired but still relaxing, trilling like on roller coaster you have been ride on and with addition info. Even you love Image Analysis, Classification and Change Detection in Remote Sensing: With Algorithms for ENVI/IDL and Python, Third Edition, it is possible to enjoy both. It is great combination right, you still want to miss it? What kind of hang type is it? Oh can occur its mind hangout guys. What? Still don't get it, oh come on its named reading friends.
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