

Multiscale Hydrologic Remote Sensing: Perspectives and Applications

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Multiscale Hydrologic Remote Sensing: Perspectives and Applications integrates advances in hydrologic science and innovative remote sensing technologies. Raising the visibility of interdisciplinary research on water resources, it offers a suite of tools and platforms for investigating spatially and temporally continuous hydrological variables and processes.

Illustrated in color, this book examines components in the hydrologic cycle with a range of space and time scales. Organized into five parts, it explores hydrologic remote sensing at the local, urban, watershed, and regional scales, as well as the continental and global scale. Contributors address questions such as

- What are the local, watershed, and regional differences in soil moisture and evapotranspiration when using different measurement methods and models?
- How can we fit the scenarios of global warming potential and the remote sensing products of snow water equivalent into hydrologic modeling to address the changing flood and drought conditions in a watershed?
- How can we fuse the images collected by different satellites to improve the accuracy of predictions at the global scale?

Tackling these and many other topics, the book presents new techniques and methods for spaceborne, airborne, and ground-based measurements and mathematical modeling. It also discusses remote sensing image processing tools and features a wealth of real-world applications and case studies.

This book is a useful reference for students, professionals, scientists, and policy makers involved in the study of global change, hydrologic science, meteorology, climatology, biology, ecology, and the agricultural and forest sciences. It shows how hydrologic remote sensing technologies can be used more effectively to explore global change impacts and improve the design of hydrologic observatories.

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Editorial Review

About the Author

Dr. Ni-Bin Chang is currently a professor with the Department of Civil, Environmental, and Construction Engineering at the University of Central Florida. He is also a senior member of the Institute of Electronics and Electrical Engineers (IEEE) and is affiliated with the IEEE Geoscience and Remote Sensing Society and the IEEE Computational Intelligence Society. He has earned the selectively awarded titles of Certificate of Leadership in Energy and Environment Design (LEED) in 2004, Board Certified Environmental Engineer (BCEE) in 2006, Diplomat of Water Resources Engineer (DWRE) in 2007, elected Member of the European Academy of Sciences (EAS) in 2008, elected Fellow of the American Society of Civil Engineers (ASCE) in 2009, and elected Fellow of the American Association for the Advancement of Science (AAAS) in 2011. He was one of the founders of International Society of Environmental Information Management and the former editor-in-chief of the *Journal of Environmental Informatics*. He is currently an editor, associate editor, or editorial board member of more than 30 international journals.

Dr. Yang Hong is currently an associate professor with the School of Civil Engineering and Environmental Sciences and Adjunct Faculty with the School of Meteorology at the University of Oklahoma. He directs the HyDROS Lab (Hydrometeorology and Remote Sensing Laboratory) at National Weather Center and also serves as the co-director of WaTER (Water Technology for Emerging Regions) center, faculty member with the Atmospheric Radar Research Center, and affiliated member of Center for Analysis and Prediction of Storms at the University of Oklahoma. He has served as Chair of the AGU-Hydrology Section Technique Committee on Precipitation (2008–2012) and as editor for three journals. He is the recipient of the NASA Award "*for significant achievements in systematically promoting and accelerating the use of NASA scientific research results for societal benefits*" by NASA Headquarter Administrator in 2008. He has extensively published in journals of remote sensing, hydrology, and hazards and has released several technologies to universities, governmental agencies, and private companies.

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Donna Miller:

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