



# Wavelets and Fractals in Earth System Sciences

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The subject of wavelet analysis and fractal analysis is fast developing and has drawn a great deal of attention in varied disciplines of science and engineering. Over the past couple of decades, wavelets, multiresolution, and multifractal analyses have been formalized into a thorough mathematical framework and have found a variety of applications with significant impact in several branches of earth system sciences.

Wavelets and Fractals in Earth System Sciences highlights the role of advanced data processing techniques in present-day research in various fields of earth system sciences. The book consists of ten chapters, providing a well-balanced blend of information about the role of wavelets, fractals, and multifractal analyses with the latest examples of their application in various research fields. By combining basics with advanced material, this book introduces concepts as needed and serves as an excellent introductory material and also as an advanced reference text for students and researchers.

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## **Editorial Review**

### Review

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*?The Leading Edge, September 2015*

### About the Author

**Dr. E. Chandrasekhar** is currently an Associate Professor of Geophysics at Department of Earth Sciences, IIT Bombay, Powai, Mumbai, India. After completing M.Sc (Tech) in Geophysics from Osmania University, Hyderabad, India, he joined Indian Institute of Geomagnetism (IIG), in Mumbai, as a researcher. While serving at IIG, he completed his Ph.D in Physics from University of Mumbai in 1999. Later he accepted the prestigious JSPS postdoctoral fellowship and worked at Kyoto University, Japan, during 2000-2002.

He was awarded the visiting scientist position by CNPq of Brazil, and worked at Observatorio Nacional, Rio de Janeiro, Brazil, during 2003-04, before joining IIT Bombay as a faculty in 2004. He was awarded the DAAD short term visiting fellowship to visit GFZ, Potsdam, Germany in 2010. His research interests are: Geophysical signal processing, Geoelectromagnetic induction studies, and Geomagnetism. More details about his publications, teaching, research guidance, etc. can be found at his web page:  
<http://www.geos.iitb.ac.in/index.php/ec>

Dr. V. P. Dimri is a Distinguished Scientist of Council of Scientific and Industrial Research (CSIR) working at National Geophysical Research Institute (NGRI), Hyderabad, India. Earlier, he served as the Director of the CSIR-NGRI from October 2001 to February 2010. Dr. Dimri has more than 125 research publications in referred journals. He is an author of the book entitled "Deconvolution and Inverse Theory" published by Elsevier, 1992 and co-authored other book "Fractal Models in Exploration Geophysics" published by Elsevier, 2012. Dr. Dimri has edited three more books on "Applications of Fractal in Earth Sciences" Balkema, USA, 2000 and "Fractal Behaviour in Earth System" Springer, 2005 and co-edited "Extreme Events and Natural Hazards: The Complexity Perspective", American Geophysical Union, monograph, 196, 2012. Dr. Dimri is the first Asian to get Lorenz Award Lecturer by American Geophysical Union in the field of non-linear geophysics in 2007. He delivered prestigious 'Sir Axford Lecture' in Asia Oceania Geosciences Society in 2010. He is a Fellow of Third World Academy of Sciences (TWAS) besides Fellow of Indian National Science Academy (INSA) and National Academy of Sciences, India (NASI).

Dr. Vikram M. Gadre is currently a Professor in the Department of Electrical Engineering, Indian Institute of Technology Bombay, Powai, India. He completed his B. Tech. and his degree of Doctor of Philosophy both, from the Indian Institute of Technology Delhi in the years 1989 and 1994 respectively. His research interests are mainly in the area of multiresolution signal and image processing with emphasis on wavelets and filter

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