

# Environmental Statistics w/ R & SPSS

by Joon Ha Kim, Sora Shin, Heewon Jeong

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This book introduces students and researchers of environmental engineering, earth science, meteorology, and oceanography to basic statistical theories and their applications; to how one can collect meaningful monitoring data in the field; and how to apply data sets to statistical concepts. Outstanding examples are provided for students' self-study and practice using a step-by-step approach. The book is organized in a way that helps readers to analyze both small and large amounts of data easily and logically; these data can be achieved from discrete laboratory experiments and real-time field monitoring sensors.

**Joon Ha Kim** is a professor in the School of Environmental Science and Engineering at the Gwangju Institute of Science and Technology (GIST), Korea. Professor Kim has a background in chemical and environmental engineering disciplines from Korea University and the University of California, Irvine, USA. He has researched for more than 20 years, studying the academic area of environmental systems

engineering associated with complex environmental systems. He has published more than 140 papers in many prominent international journals in the field of environmental science and engineering. He is one of the leading experts in environmental data analysis and mining, statistical and deterministic modeling and optimization to mitigate the problems caused by the intrinsic complexities of environmental systems.

**Sora Shin** received a PhD degree in the earth science and environmental engineering from Gwangju Institute of Science and Technology. She has conducted statistical studies of mobile environmental monitoring system. She analyzes particulate matter problems using frequentist statistics and Bayesian statistics and actively uses R to solve data analysis problems.

**Heewon Jeong** received a PhD degree in the earth science and environmental engineering from Gwangju Institute of Science and Technology. He has conducted studies about the application of artificial intelligence to environment system analysis. He is a budding researcher in data science (e.g. big data, machine learning, and deep learning) to interpret the complexity of environmental systems.

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