

Guide to Programming and Algorithms Using R

By Özgür Ergül

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This easy-to-follow textbook provides a student-friendly introduction to programming and algorithms. Emphasis is placed on the threshold concepts that present barriers to learning, including the questions that students are often too embarrassed to ask. The book promotes an active learning style in which a deeper understanding is gained from evaluating, questioning, and discussing the material, and practised in hands-on exercises. Although R is used as the language of choice for all programs, strict assumptions are avoided in the explanations in order for these to remain applicable to other programming languages. Features: provides exercises at the end of each chapter; includes three mini projects in the final chapter; presents a list of titles for further reading at the end of the book; discusses the key aspects of loops, recursions, program and algorithm efficiency and accuracy, sorting, linear systems of equations, and file processing; requires no prior background knowledge in this area.

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Editorial Review

From the Back Cover

When encountering difficult concepts in computer programming for the first time, many students struggle to find simple explanations in their textbooks. Information can also be hard to find on common mistakes made when implementing algorithms and writing programs.

This concise and easy-to-follow textbook/guide provides a student-friendly introduction to programming and algorithms. Emphasis is placed on the threshold concepts that present barriers to learning, including the questions that students are often too embarrassed to ask. The book promotes an active learning style in which a deeper understanding is gained from evaluating, questioning, and discussing the material, and practised in hands-on exercises. Although R is used as the language of choice for all programs, strict assumptions are avoided in the explanations in order for these to remain applicable to other programming languages.

Topics and features:

- Provides exercises at the end of each chapter to test the reader’s understanding
- Includes three mini projects in the final chapter that students may enjoy while programming
- Presents a list of titles for further reading at the end of the book
- Discusses the key aspects of loops, recursions, program and algorithm efficiency and accuracy, sorting, linear systems of equations, and file processing
- Requires no prior background knowledge in this area

This classroom-tested primer is an essential companion for any undergraduate student approaching the subject of programming and algorithms for the first time, regardless of whether their courses are part of a computer science, electrical engineering, mathematics, or physics degree.

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About the Author
Dr. Özgür Ergül is an Assistant Professor in the Department of Electrical and Electronics Engineering at the Middle East Technical University, Ankara, Turkey.

Users Review

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Mary James:

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