



The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series)

By Richard Jones, Antony Hosking, Eliot Moss

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Published in 1996, Richard Jones's *Garbage Collection* was a milestone in the area of automatic memory management. The field has grown considerably since then, sparking a need for an updated look at the latest state-of-the-art developments. **The Garbage Collection Handbook: The Art of Automatic Memory Management** brings together a wealth of knowledge gathered by automatic memory management researchers and developers over the past fifty years. The authors compare the most important approaches and state-of-the-art techniques in a single, accessible framework.

The book addresses new challenges to garbage collection made by recent advances in hardware and software. It explores the consequences of these changes for designers and implementers of high performance garbage collectors. Along with simple and traditional algorithms, the book covers parallel, incremental, concurrent, and real-time garbage collection. Algorithms and concepts are often described with pseudocode and illustrations.

The nearly universal adoption of garbage collection by modern programming languages makes a thorough understanding of this topic essential for any programmer. This authoritative handbook gives expert insight on how different collectors work as well as the various issues currently facing garbage collectors. Armed with this knowledge, programmers can confidently select and configure the many choices of garbage collectors.

Web Resource

The book's online bibliographic database at www.gchandbook.org includes over 2,500 garbage collection-related publications. Continually updated, it contains abstracts for some entries and URLs or DOIs for most of the electronically

available ones. The database can be searched online or downloaded as BibTeX, PostScript, or PDF.

E-book

This edition enhances the print version with copious clickable links to algorithms, figures, original papers and definitions of technical terms. In addition, each index entry links back to where it was mentioned in the text, and each entry in the bibliography includes links back to where it was cited.

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Editorial Review

Review

The Garbage Collection Handbook is the most up-to-date, detailed, and exhaustive collation and description of the current state of the art of Garbage Collection and Automatic Memory Management available today. It is an imperative reference book for anyone working in the field, and I would consider it the textbook of reference covering GC 101 thru GC 530 course levels, if such courses were given at universities worldwide. As CTO of Azul Systems and co-creator of multiple modern concurrent collectors, Richard Jones' previous *Garbage Collection* book was indispensable to my work over the years. **The Garbage Collection Handbook** has immediately taken its place. Each of our GC engineers has a copy on their desk.

?Gil Tene, Chief Technical Officer and co-founder of Azul Systems

In a field replete with ephemera, this book, just like its predecessor, stands as a monumental work that will last for decades.

?Dr. Mario Wolczko, Research Director, Oracle Labs

From the Back Cover

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Features

- Provides a complete, up-to-date, and authoritative sequel to the 1996 book
- Offers thorough coverage of parallel, concurrent, and real-time garbage collection algorithms
- Explains some of the tricky aspects of garbage collection, including the interface to the run-time system
- Backed by a comprehensive online database of over 2,500 garbage collection-related publications

The nearly universal adoption of garbage collection by modern programming languages makes a thorough understanding of this topic essential for any programmer. This authoritative handbook gives expert insight on how different collectors work as well as the various issues currently facing garbage collectors. Armed with this knowledge, programmers can confidently select and configure the many choices of garbage collectors.

About the Author

Richard Jones is Professor of Computer Systems at the School of Computing, University of Kent, Canterbury. He received a BA in Mathematics from Oxford University in 1976. He spent a few years teaching before returning to higher education at the University of Kent, where he has remained ever since, receiving an MSc in Computer Science in 1989.

Antony Hosking is an Associate Professor in the Department of Computer Science at Purdue University, West Lafayette. He received a BSc in Mathematical Sciences from the University of Adelaide, Australia, in 1985, and an MSc in Computer Science from the University of Waikato, New Zealand, in 1987. He continued his graduate studies at the University of Massachusetts Amherst, receiving a PhD in Computer Science in 1995.

Eliot Moss is a Professor in the Department of Computer Science at the University of Massachusetts Amherst. He received a BSEE in 1975, MSEE in 1978, and PhD in Computer Science in 1981, all from the Massachusetts Institute of Technology, Cambridge. After four years of military service, he joined the Computer Science faculty at the University of Massachusetts Amherst.

Users Review

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Ellen Jones:

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