

# DISTRIBUTED SYSTEMS

*Principles and Paradigms*

Second Edition

## About the Authors

**Andrew S. Tanenbaum** has an S.B. degree from M.I.T. and a Ph.D. from the University of California at Berkeley. He is currently a Professor of Computer Science at the Vrije Universiteit in Amsterdam, The Netherlands, where he heads the Computer Systems Group. Until stepping down in Jan. 2005, for 12 years he had been Dean of the Advanced School for Computing and Imaging, an inter-university graduate school doing research on advanced parallel, distributed, and imaging systems.

In the past, he has done research on compilers, operating systems, networking, and local-area distributed systems. His current research focuses primarily on computer security, especially in operating systems, networks, and large wide-area distributed systems. Together, all these research projects have led to over 120 refereed papers in journals and conference proceedings and five books, which have been translated into 20 languages.

Prof. Tanenbaum has also produced a considerable volume of software. He was the principal architect of the Amsterdam Compiler Kit, a toolkit for writing portable compilers, as well as of MINIX, a small UNIX clone aimed at very high reliability. It is available for free at [www.minix.org](http://www.minix.org). This system provided the inspiration and base on which Linux was developed. He was also one of the chief designers of *doomsday* and *Diablo*.

His Ph.D. students have gone on to greater glory after getting their degrees. He is very proud of them. In this respect he resembles a mother hen.

Prof. Tanenbaum is a Fellow of the ACM, a Fellow of the the IEEE, and a member of the Royal Netherlands Academy of Arts and Sciences. He is also winner of the 1994 ACM Karl V. Karstrom Outstanding Educator Award, winner of the 1997 ACM SIGCSE Award for Outstanding Contributions to Computer Science Education, and winner of the 2002 Tracy award for excellence in textbooks. In 2004 he was named an *out* of the first new Academy Professor by the Royal Academy. His home page is at [www.cwi.nl/~ast/](http://www.cwi.nl/~ast/).

**Maarten van Steen** is a professor at the Vrije Universiteit, Amsterdam, where he teaches operating systems, computer networks, and distributed systems. He has also given various highly successful courses on computer systems related subjects to ICT professionals from industry and governmental organizations.

Prof. van Steen studied Applied Mathematics at Twente University and received a Ph.D. from Leiden University in Computer Science. After his graduate studies he went to work for an industrial research laboratory where he eventually became head of the Computer Systems Group, concentrating on programming support for parallel applications.

After five years of struggling simultaneously do research and management, he decided to return to academia, first as an assistant professor in Computer Science at the Eindhoven University of Technology, and later as an assistant professor in Andrew Tanenbaum's group at the Vrije Universiteit Amsterdam. Going back to university was the right decision, his wife Barbara, too.

His current research concentrates on large-scale distributed systems. Part of his research focuses on Web-based systems, in particular adaptive distribution and replication in *Clouds*, a content delivery network of which his colleague Christiaan Poore is the chief designer. Another subject of extensive research is fully decentralized (group-based) peer-to-peer systems of which results have been included in *Tribler*, a BitTorrent application developed in collaboration with colleagues from the Technical University of Delft.

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*Principles and Paradigms*

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