Computer Arithmetic and Formal Proofs: Verifying Floating-point Algorithms with the Coq System

By Sylvie Boldo, Guillaume Melquiond
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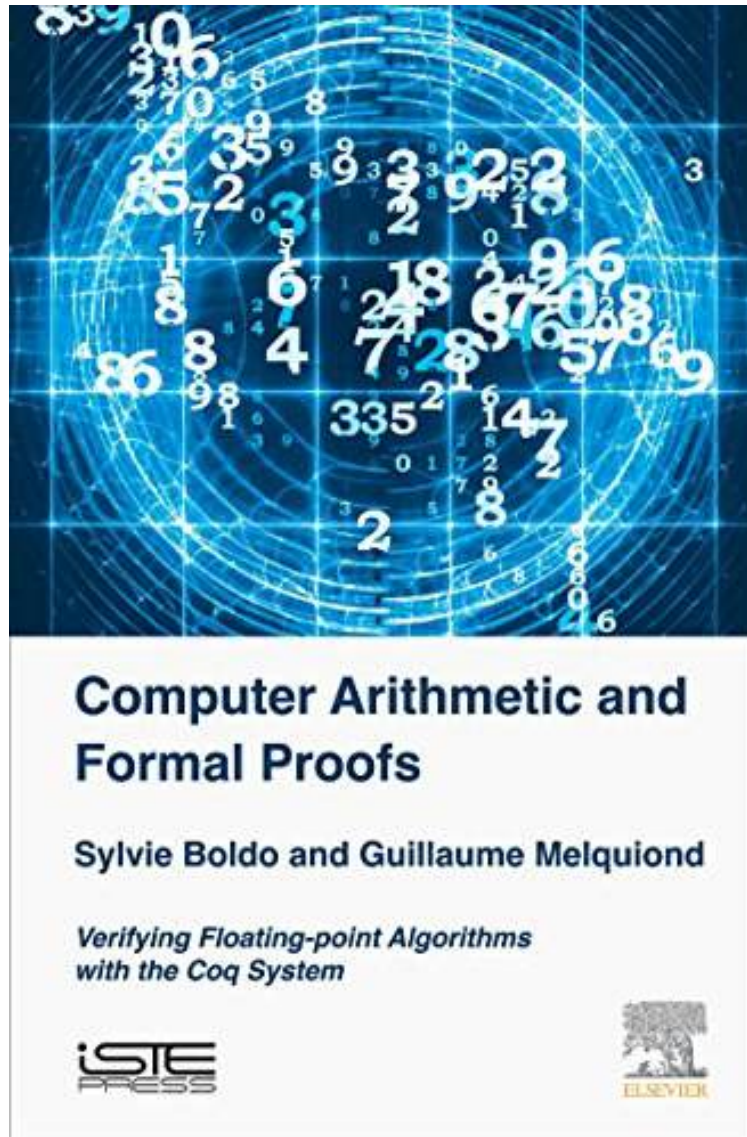
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Computer Arithmetic and Formal Proofs: Verifying Floating-point Algorithms with the Coq System:

Computer Arithmetic and Formal Proofs Floating point Algorithms with the Coq System explores floating point arithmetic a tool that is ubiquitous in modern computing as the tool of choice to approximate real numbers Due to its limited range and precision its use can become quite involved and cause numerous failures This book explains how to avoid this and increase confidence in floating point software by using the computer assisted verification of correctne About the Author Sylvie Boldo obtained a Ph Dat ENS Lyon in 2005 since she is a researcher at Inria Guillaume Melquiond is a researcher at Inria since 2008 and obtained his PhD in computer science at ENS in Lyon

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