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| Collana | Lecture Notes in Computer Science, , 0302-9743 ; ; 637 |
| Disciplina | 005.4/3 |
| Soggetti | Computer programming Computer engineering Programming languages (Electronic computers) Operating systems (Computers) Computer memory systems Data structures (Computer science) Programming Techniques Computer Engineering Programming Languages, Compilers, Interpreters Operating Systems Memory Structures Data Storage Representation |
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| Nota di contenuto | Uniprocessor garbage collection techniques -- Collection schemes for distributed garbage -- Dynamic memory management for sequential logic programming languages -- Comprehensive and robust garbage collection in a distributed system -- Experience with a fault-tolerant garbage collector in a distributed lisp system -- Scalable distributed garbage collection for systems of active objects -- Distributed garbage collection of active objects with no global synchronisation -- Memory management for parallel tasks in shared memory -- Incremental multi-threaded garbage collection on virtually shared memory architectures |

-- Generational garbage collection for lazy graph reduction -- A conservative garbage collector with ambiguous roots for static typechecking languages -- An efficient implementation for coroutines -- An implementation of an applicative file system -- A compile-time memory-reuse scheme for concurrent logic programs -- Finalization in the collector interface -- Precompiling C++ for garbage collection -- GC-cooperative C++ -- Dynamic revision of choice points during garbage collection in prolog [II/III] -- Ecological memory management in a continuation passing prolog engine -- Replication-based incremental copying collection -- Atomic incremental garbage collection -- Incremental collection of mature objects -- Object type directed garbage collection to improve locality -- Allocation regions & implementation contracts -- A concurrent generational garbage collector for a parallel graph reducer -- Garbage collection in Aurora: An overview -- Collections and garbage collection -- Memory management and garbage collection of an extended common lisp system for massively parallel SIMD architecture -- NREVERSAL of fortune — The thermodynamics of garbage collection.

Sommario/riassunto

This is the first book entirely dedicated to the problem of memory management in programming language implementation. Its originality stems from the diversity of languages and approaches presented: functional programming, logic programming, object oriented programming, and parallel and sequential programming. The book contains 29 selected and refereed papers including 3 survey papers, 4 on distributed systems, 4 on parallelism, 4 on functional languages, 3 on logic programming languages, 3 on object oriented languages, 3 on incremental garbage collection, 2 on improving locality, 2 on massively parallel architectures, and an invited paper on the thermodynamics of garbage collection. The book provides a snapshot of the latest research in the domain of memory management for high-level programming language implementations.
