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Soggetti	Programming languages (Electronic computers) Software engineering Computer programming Operating systems (Computers) Special purpose computers Programming Languages, Compilers, Interpreters Software Engineering/Programming and Operating Systems Software Engineering Programming Techniques Operating Systems Special Purpose and Application-Based Systems
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Nota di contenuto	Opening address: Ada 9X -- Run-time check elimination for Ada 9X -- Adequacy of the new generation of multithreading operating systems to the Ada Tasking Model -- Merging Ada 9X and C++ in a graphics system software architecture -- The AECSS fault tolerant distributed Ada testbed and application -- A front-end to HOOD -- Tool support for high integrity Ada software -- Testing Ada abstract data types using formal specifications -- Formal methods for a space software development environment -- Object orientation is not always best! -- Beyond abstract data types: Giving life to objects -- Test methods and tools for SOHO Mass Memory Unit software -- Integrating modular, Object Oriented Programming, and application generator technologies

in large real time and distributed developments -- A new approach for HOOD/Ada mapping -- Shlaer/Mellor or Rumbaugh? A discussion of two popular Object-Oriented Methods -- How should military Ada software be documented? -- Evolving an Ada curriculum to 9X -- Recommendations and proposals for an Ada strategy in the Space Software Development Environment -- Life ADA: An APSE integrating multiple compilers -- Extended application of Ada to cover ECBS with O4S -- Development of a lightweight object-based software process model under pragmatic constraints -- ESSPASE: European Space Software Product Assurance Support Environment -- Test philosophy and validation strategy of on-board real time software in envisat-1 satellite radar-altimeter -- A knowledge-based System for diagnosis in Veterinary Medicine -- Event diagnosis and recovery in real-time on-board autonomous mission control -- Safety aspects of the Ariane 5 on-board software -- Ada controls the European robotic arm -- Automatic generation of ada source code for the Rafale Mission computer -- The Real-time Rapporteur Group (ISO/JTC1/SC22/WG9/RRG) JTC 1.22.35 or How to avoid and control proliferation of new Ada Real time extensions -- A fully reusable class of objects for synchronization and communication in Ada 9X -- Interfacing computer communications from ada in a diverse and evolving environment -- Cost-benefit analysis for software-reuse — A decision procedure -- Ex2: Integrating Ada and extra support in a doubly portable extended executive designed for hard real time systems -- Distribution of tasks within a centrally scheduled local area network -- Handling interrupts in Ada 9X -- Tuning Ada programs in advance -- CEDEX A tool for the selection of a development and execution environment for real time on-bord applications -- Portability effort estimates for real time applications written in Ada through static code analysis -- FAA certification of Ada Run-Time Systems -- Panel on safety and reliability held on September 28, 1994 -- Experiences integrating object-oriented analysis with Joint Application Development (JAD).

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### Sommario/riassunto

This volume constitutes the proceedings of the First International Eurospace/Ada-Europe Symposium, held in Copenhagen in September 1994; this symposium series is the merger of the two conference series Ada in Aerospace and Ada-Europe. The 42 papers accepted for presentation address general Ada-related software engineering aspects as well as Ada language issues; the majority of the papers are stimulated by research and development done in the aerospace and aircraft industry. Among the topics covered are compiler issues, safety, criticality and formal methods, object-orientation, management and training, life cycle, reuse, Ada-libraries, run-time, and real-time aspects.

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