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Nota di contenuto	Combining SDL with Synchronous Data Flow Modelling for Distributed Control Systems -- Using Message Sequence Charts to Accelerate Maintenance of Existing Systems -- From MSC-2000 to UML 2.0 -- The Future of Sequence Diagrams -- SDL and Layered Systems: Proposed Extensions to SDL to Better Support the Design of Layered Systems -- Collaboration-Based Design of SDL Systems -- Using UML for Implementation Design of SDL Systems -- Deployment of SDL Systems Using UML -- ETSI Testing Activities and the Use of TTCN-3 -- HyperMSCs with Connectors for Advanced Visual System Modelling and Testing -- Graphical Test Specification — The Graphical Format of TTCN-3 -- Some Implications of MSC, SDL and TTCN Time Extensions for Computer-Aided Test Generation -- Verification of Quantitative Temporal Properties of SDL Specifications -- A General Approach for the Specification of Real-Time Systems with SDL -- Timed Extensions for SDL -- ASN.1 is Reaching Out! -- Distributed Systems: From Models to Components -- Deriving Message Sequence Charts from Use Case Maps Scenario Specifications -- An SDL Implementation Framework for Third Generation Mobile Communications System -- OSPF Efficient LSA Refreshment Function in SDL -- Using SDL in a Stateless Environment -- An MSC Based Representation of DiCons -- Some Pathological

Message Sequence Charts, and How to Detect Them -- An Execution Semantics for MSC-2000 -- Comparing TorX, Autolink, TGV and UIO Test Algorithms -- Verifying Large SDL-Specifications Using Model Checking -- Applying SDL Specifications and Tools to the Verification of Procedures.

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Sommario/riassunto

This volume contains the papers presented at the Tenth SDL Forum, Copenhagen. SDL is the Specification and Description Language first standardized by the world telecommunications body, the International Telecommunications Union (ITU), more than 20 years ago in 1976. While the original language and domain of application has evolved significantly, the foundations of SDL as a graphical, state-transition and process-communication language for real-time systems have remained. Today SDL has also grown to be one notation in the set of unified modelling languages recommended by the ITU (ASN.1, MSC, SDL, ODL, and TTCN) that can be used in methodology taking engineering of systems from requirements capture through to testing and operation. The SDL Forum is held every two years and has become the most important event in the calendar for anyone involved in SDL and related languages and technology. The SDL Forum Society that runs the Forum is a non-profit organization whose aim it is to promote and develop these languages.

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