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Autore	Finocchiaro, Alfio
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Nota di contenuto

Connection-oriented Networks; About the Author; Contents; Preface; List of Abbreviations; 1 Introduction; 1.1 Communication Networks; 1.2 Examples of Connections; 1.2.1 An ATM Connection; 1.2.2 An MPLS Connection; 1.2.3 A Telephone Connection; 1.2.4 A Wavelength Routing Optical Network Connection; 1.3 Organization of the Book; 1.4 Standards Committees; 1.4.1 The International Telecommunication Union (ITU); 1.4.2 The International Organization for Standardization (ISO); 1.4.3 The American National Standards Institute (ANSI); 1.4.4 The Institute of Electrical and Electronics Engineering (IEEE) 1.4.5 The Internet Engineering Task Force (IETF) 1.4.6 The ATM Forum; 1.4.7 The MPLS and Frame Relay Alliance; 1.4.8 The Optical Internetworking Forum (OIF); 1.4.9 The DSL Forum; Problems; 2 SONET/SDH and the Generic Frame Procedure (GFP); 2.1 T1/E1; 2.1.1 Fractional T1/E1; 2.1.2 Unchannelized Framed Signal; 2.2 SONET/SDH; 2.3 The SONET STS-1 Frame Structure; 2.3.1 The Section, Line, and Path Overheads; 2.3.2 The STS-1 Section, Line, and Path Overheads; 2.3.3 The STS-1 Payload; 2.4 The SONET STS-3 Frame Structure; 2.5 SONET/SDH Devices; 2.6 Self-healing SONET/SDH Rings 2.6.1 Two-fiber Unidirectional Path Switched Ring (2F-UPSR) 2.6.2 Two-fiber Bidirectional Line Switched Ring (2F-BLSR); 2.6.3 Four-fiber Bidirectional Line Switched Ring (4F-BLSR); 2.7 The Generic Framing Procedure (GFP); 2.7.1 The GFP Frame Structure; 2.7.2 GFP Client-independent Functions; 2.7.3 GFP Client-dependent Functions; 2.8 Data over SONET/SDH (DoS); 2.8.1 Virtual Concatenation; 2.8.2 Link Capacity Adjustment Scheme (LCAS); Problems; 3 ATM Networks; 3.1 Introduction; 3.2 The Structure of the Header of the ATM Cell; 3.3 The ATM Protocol Stack; 3.4 The Physical Layer 3.4.1 The Transmission Convergence (TC) Sublayer 3.4.2 The Physical Medium-Dependent (PMD) Sublayer; 3.5 The ATM Layer; 3.6 The ATM Switch Architecture; 3.6.1 The Shared Memory Switch; 3.6.2 Scheduling Algorithms; 3.7 The ATM Adaptation Layer; 3.7.1 ATM Adaptation Layer 1 (AAL 1); 3.7.2 ATM Adaptation Layer 2 (AAL 2); 3.7.3 ATM Adaptation Layer 5 (AAL 5); 3.8 Classical IP and ARP Over ATM; 3.8.1 ATMARP; Problems; Appendix: Simulation Project: AAL 2; 4 Congestion Control in ATM Networks; 4.1 Traffic Characterization; 4.1.1 Types of Parameters; 4.1.2 Standardized Traffic Descriptors 4.1.3 Empirical Models 4.1.4 Probabilistic Models; 4.2 Quality of Service (QoS) Parameters; 4.3 ATM Service Categories; 4.3.1 The CBR Service; 4.3.2 The RT-VBR Service; 4.3.3 The NRT-VBR Service; 4.3.4 The UBR Service; 4.3.5 The ABR Service; 4.3.6 The GFR Service; 4.3.7 ATM Transfer Capabilities; 4.4 Congestion Control; 4.5 Preventive Congestion Control; 4.6 Call Admission Control (CAC); 4.6.1 Classes of CAC Algorithms; 4.6.2 Equivalent Bandwidth; 4.6.3 The ATM Block Transfer (ABT) Scheme; 4.6.4 Virtual Path Connections; 4.7 Bandwidth Enforcement; 4.7.1 The Generic Cell Rate Algorithm (GCRA) 4.7.2 Packet Discard Schemes

Sommario/riassunto

A thorough knowledge of modern connection-oriented networks is essential to understanding the current and near-future state of networking. This book provides a complete overview of connection-oriented networks, discussing both packet-switched and circuit-switched networks, which, though seemingly different, share common networking principles. It details the history and development of such networks, and defines their terminology and architecture, before progressing to aspects such as signaling and standards. There is inclusive coverage of SONET/SDH, ATM networks, Multi-Protocol Label Switchi

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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 3219
Disciplina	004.24
Soggetti	Software engineering Coding theory Information theory Computers, Special purpose Computer logic Management information systems Computer science Software Engineering/Programming and Operating Systems Coding and Information Theory Special Purpose and Application-Based Systems Logics and Meanings of Programs Management of Computing and Information Systems
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Talk -- Why Safety and Security Should and Will Merge -- Safety Cases -- The Deconstruction of Safety Arguments Through Adversarial Counter-Argument -- Using Fuzzy Self-Organising Maps for Safety Critical Systems -- Using Formal Methods in a Retrospective Safety Case -- Reliability -- A Highly Fault Detectable Cache Architecture for Dependable Computing -- An Empirical Exploration of the Difficulty Function -- Towards the Integration of Fault, Resource, and Power Management -- Human Factors -- Modeling Concepts for Safety-

Related Requirements in Sociotechnical Systems -- Analysing Mode Confusion: An Approach Using FDR2 -- Invited Talk -- Handling Safety Critical Requirements in System Engineering Using the B Formal Method -- Transportation -- A Hybrid Testing Methodology for Railway Control Systems -- Actuator Based Hazard Analysis for Safety Critical Systems -- Performability Measures of the Public Mobile Network of a Tele Control System -- Software Development -- PLC-Based Safety Critical Software Development for Nuclear Power Plants -- Compositional Hazard Analysis of UML Component and Deployment Models -- Automatic Test Data Generation from Embedded C Code -- Fault Tree Analysis -- State-Event-Fault-Trees – A Safety Analysis Model for Software Controlled Systems -- Safety Requirements and Fault Trees Using Retrenchment -- The Effects on Reliability of Integration of Aircraft Systems Based on Integrated Modular Avionics -- Invited Talk -- Automotive Telematics – Road Safety Versus IT Security? -- Formal Methods and Systems -- Modular Formal Analysis of the Central Guardian in the Time-Triggered Architecture -- Refinement of Fault Tolerant Control Systems in B -- Numerical Integration of PDEs for Safety Critical Applications Implemented by I&C Systems -- Security and Quality of Service -- An Integrated View of Security Analysis and Performance Evaluation: Trading QoS with Covert Channel Bandwidth -- Dependability Benchmarking of Web-Servers -- Hazard and Risk Analysis -- An Approach for Model-Based Risk Assessment -- How Explicit Are the Barriers to Failure in Safety Arguments?.

Sommario/riassunto

The importance of safety and security is growing steadily. Safety is a quality characteristic that traditionally has been considered to be important in embedded systems, and security is usually an essential property in business applications. There is certainly a tendency to use software-based solutions in safety-critical applications domains, which increases the importance of safety engineering techniques. These include modelling and analysis techniques as well as appropriate processes and tools. And it is surely correct that the amount of confidential data that require protection from unauthorized access is growing. Therefore, security is very important. On the one hand, the traditional motivations for addressing safety and security still exist, and their relevance has improved. On the other hand, safety and security requirements occur increasingly in the same system. At present, many software-based systems interact with technical equipment and they communicate, e.g., with users and other systems. Future systems will more and more interact with many other entities (technical systems, people, the environment). In this situation, security problems may cause safety-related failures. It is thus necessary to address safety and security. It is furthermore required to take into account the interactions between these two properties.
