1.	Record Nr.	UNINA9910782274703321
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	Titolo	Trust and security in collaborative computing [[electronic resource] /] / Xukai Zou, Yuan-Shun Dai, Yi Pan
	Pubbl/distr/stampa	Hackensack, NJ, : World Scientific, c2008
	ISBN	1-281-93358-9 9786611933586 981-279-088-8
	Descrizione fisica	1 online resource (248 p.)
	Collana	Computer and network security ; ; v. 2
	Altri autori (Persone)	DaiYuan-Shun PanYi <1960->
	Disciplina	005.8
	Soggetti	Computer security Groupware (Computer software) Computer networks - Security measures
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Contents; Preface; Acknowledgments; List of Figures; List of Tables; 1. Introduction; 1.1 Overview of Trusted Collaborative Computing; 1.2 Basic Concepts in Terms of Security; 1.3 Basic Concepts in Terms of Reliability; 1.4 Abbreviations and Notations; 1.5 Outline; 2. Secure Group Communication (SGC); 2.1 Overview of Secure Group Communication (SGC); 2.2 Typical Group Key Management Schemes for SGC; 2.2.1 Centralized Group Key Distribution; 2.2.1.1 Key Tree (Logical Key Hierarchy); 2.2.1.2 Other Proposed Schemes; 2.2.2 De-centralized Group Key Management; 2.2.2.1 Iolus 2.2.2.2 Other Proposed Schemes 2.2.3 (Distributed) Contributory Group Key Agreement; 2.2.3.1 Tree based Group Di.e-Hellman Key Agreement; 2.2.3.2 Other Proposed Schemes; 2.2.4 Distributed Group Key Distribution; 2.2.4.1 DGKD; 2.3 Enhanced Group Key Management for SGC; 2.3.1 SGC for Wireless and Mobile Ad Hoc Networks; 2.3.1.1 CRTDH; 2.3.1.2 Other Proposed Schemes; 2.3.2 Authenticated Key Exchange (AKE); 2.3.2.1 AUTH-CRTDH; 2.3.2.2 Other Proposed Schemes; 2.3.3 Self-Healing Key Distribution; 2.3.3.1 Self-Healing based on Polynomials and Secret Sharing; 2.3.3.2 Other Proposed

Schemes

Sommario/riassunto	Computer networks are compromised by various unpredictable factors, such as hackers, viruses, spam, faults, and system failures, hindering the full utilization of computer systems for collaborative computing - one of the objectives for the next generation of the Internet. It includes the functions of data communication, resource sharing, group cooperation, and task allocation. One popular example of collaborative computing is grid computing. This monograph considers the latest efforts to develop a trusted environment with the high security and reliability needed for collaborative computing.