Record Nr. UNINA9910366585803321 Autore Wolf Marilyn **Titolo** Safe and Secure Cyber-Physical Systems and Internet-of-Things Systems / / by Marilyn Wolf, Dimitrios Serpanos Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2020 **ISBN** 3-030-25808-4 Edizione [1st ed. 2020.] Descrizione fisica 1 online resource (X, 91 p. 23 illus., 16 illus. in color.) Disciplina 621.3815 005.8 Soggetti Electronic circuits Microprocessors Electrical engineering Circuits and Systems **Processor Architectures** Communications Engineering, Networks Lingua di pubblicazione Inglese Materiale a stampa **Formato** Livello bibliografico Monografia Chapter 1. The Safety and Security Landscape -- Chapter 2. Safety and Nota di contenuto Security Design Processes -- Chapter 3. Threats and Threat Analysis --Chapter 4. Architectures -- Chapter 5. Security Testing and Runtime Monitoring -- Chapter 6. False Data Injection Attacks. Sommario/riassunto This book provides the first comprehensive view of safe and secure CPS and IoT systems. The authors address in a unified manner both safety (physical safety of operating equipment and devices) and computer security (correct and sound information), which are traditionally separate topics, practiced by very different people. Offers readers a unified view of safety and security, from basic concepts through research challenges; Provides a detailed comparison of safety and security methodologies; Describes a comprehensive threat model including attacks, design errors, and faults: Identifies important

commonalities and differences in safety and security engineering.