Safety Of Computer Control Systems 1992 Safecomp 92

This book presents the proceedings of the 11th IFAC/IFIP/IFORS/IEA Symposium on Safety of Computer Control Systems, held in Warsaw, Poland, on 16-18 September 1992. The symposium provided a forum for the exchange of information on the latest developments in the field of safety of computer control systems.

Safety of Computer Control Systems 1992 (SAFECOMP' 92): Computer Systems in Safety-Critical Applications (IFAC Symposia Series)

★★★★★ 5 out of 5

Language : English

File size : 54251 KB

Print length : 332 pages

The book contains 65 papers from 20 countries, which were selected from a total of 100 submissions. The papers are organized into 10 sections:

- Safety assessment

- Formal methods

- Fault-tolerant systems

- Human-computer interaction

- Risk assessment

- Software engineering

- Applications

- Education and training

- Standards and regulations

- Future trends

The book provides a comprehensive overview of the state-of-the-art in the field of safety of computer control systems. It is a valuable resource for researchers, practitioners, and students in this field.

Table of Contents

- **Section 1: Safety assessment**

  - A safety assessment method for computer control systems

  - Safety assessment of computer control systems using fault trees

  - A risk-based approach to safety assessment of computer control systems

- **Section 2: Formal methods**

  - Formal verification of safety-critical software

  - Model checking for safety analysis of computer control systems

  - Petri nets for safety analysis of computer control systems

- **Section 3: Fault-tolerant systems**

  - Fault-tolerant design of computer control systems

- Fault-tolerant architectures for computer control systems

- Fault-tolerant software for computer control systems

- **Section 4: Human-computer interaction**

  - Human-computer interaction in safety-critical systems

  - The role of human factors in safety of computer control systems

  - Usability engineering for safety-critical systems

- **Section 5: Risk assessment**

  - Risk assessment for computer control systems

  - Methods for risk assessment of computer control systems

  - Applications of risk assessment in the design of computer control systems

- **Section 6: Software engineering**

  - Software engineering for safety-critical systems

  - Model-based software development for safety-critical systems

  - Formal methods for software development of safety-critical systems

- **Section 7: Applications**

  - Applications of computer control systems in safety-critical domains

  - Safety of computer control systems in nuclear power plants

  - Safety of computer control systems in chemical plants

- **Section 8: Education and training**

  - Education and training for safety of computer control systems

  - Training programs for safety-critical systems

  - Certification of safety-critical systems engineers

- **Section 9: Standards and regulations**

  - Standards and regulations for safety of computer control systems

 - The role of standards and regulations in ensuring

Safety of Computer Control Systems 1992 (SAFECOMP' 92): Computer Systems in Safety-Critical Applications (IFAC Symposia Series)

★★★★★ 5 out of 5

Language   : English
File size   : 54251 KB
Print length : 332 pages

DOWNLOAD E-BOOK FREE
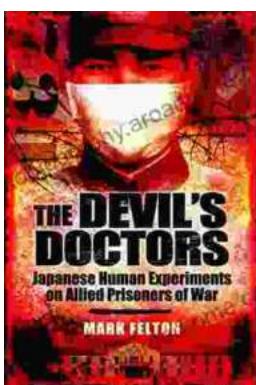
The Devil Doctors: A Heart-wrenching Tale of Betrayal and Resilience

The Devil Doctors is a gripping novel that explores the dark side of the medical profession. It follows the story of a young doctor who...
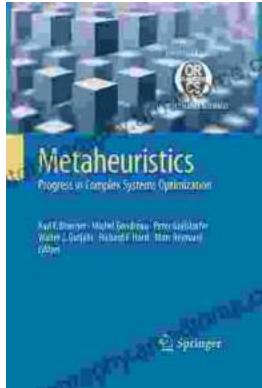
Progress In Complex Systems Optimization Operations Research Computer Science

This book presents recent research on complex systems optimization, operations research, and computer science. Complex systems are systems that...