

# Contents

# 1 Safety and releaiblity

Computing system errors stem from human errors. Errors are typically traceable but moral and legal responsibility is not always easy to establish

## 2 Causes of Failure in Computing Systems

- Hardware errors
- Software errors
- Solving the wrong problem
- Misuse of the system
- Human communication failure
- Human malice

## 3 Dependability

**Dependability** of a computing system is the ability to deliver service that can justifiably be trusted. Dependability attributes are:

- Availability: Readiness of correct service
- Reliability: Continuity of correct service
- Safety: Absence of catastrophic consequences on the user(s) and the environment
- Confidentiality: Absence of unauthorized disclosure of information
- Integrity: Absence of improper system state alterations
- Maintainability: Ability to undergo repairs and modifications.

## Reference section

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