

The Impact of Unreliable Systems and Application Information

This scientific workshop addressed the impact of unreliable systems and inaccurate application information across multiple critical domains, including cybersecurity, business operations, healthcare, and critical infrastructure. System unreliability, resulting from hardware failures or external cyber threats, can lead to service disruptions, data corruption, and significant financial losses.

The workshop also highlighted how inaccurate or misleading application information can intensify these challenges by causing errors in decision-making, operational inefficiencies, and increased security vulnerabilities. Such failures often produce cascading effects that extend beyond individual systems, threatening overall system performance and organizational stability.

Furthermore, the workshop emphasized the importance of implementing robust fault-tolerant mechanisms, redundancy strategies, and real-time monitoring systems to enhance system resilience. Advances in system reliability engineering, machine learning–based anomaly detection, and improved data validation techniques were identified as essential approaches for mitigating risks and strengthening overall system dependability.