International Journal of

Critical Computer-Based Systems

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Scope of the Journal

IJCCBS covers all topics related to the engineering of computer-based systems (CBS) employed in mission and safety-critical applications. CBS feature increasingly large, distributed and heterogeneous architectures, which complicate their design and analysis. CBS are not isolated computer systems: context awareness, environmental factors and interaction with systems of different natures have become important aspects. Furthermore, dependability, resiliency, trustworthiness, survivability and performability are some of the many essential and non-elementary properties which often need to be predicted and demonstrated for such systems.

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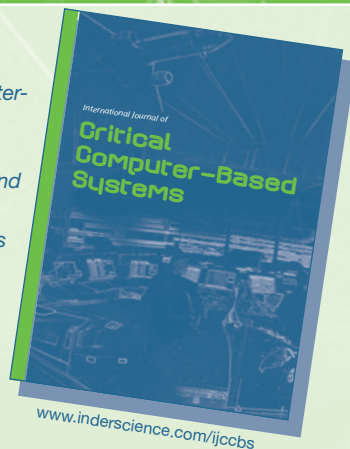
Topics covered include:

- Computer dependability and high-assurance systems engineering
- Resilient cyber-physical systems (CPS), industrial Internet of Things (IIoT) and human machine systems (HMS)
- Trustworthy intelligent systems: threats to artificial intelligence and safety in autonomous systems
- Verification and validation of real-time computer systems
- Formal methods, model checking and model-based software testing
- Software fault tolerance and rejuvenation
- Multi-paradigm modelling of critical systems
- Fault injection and measurement-based analysis
- FMECA, risk assessment and hazard analysis
- Cybersecurity and blockchain within industrial control systems (ICS) and SCADA
- Operating systems and protocols for anomaly detection in distributed systems
- Dependable architectures and middleware
- Self-healing systems and reconfigurable hardware
- Business continuity and disaster recovery
- Relevant case studies and applications: smart cities, Industry 4.0, intelligent transportation, etc.

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