

**DoSCI-2021**  
**International Conference/Doctoral Symposium on Computational Intelligence**

Organized by Institute of Engineering & Technology, constituent college of Dr APJ Abdul Kalam Technical University Lucknow, India  
On 06-March-2021

\*\*\*\*\* CALL FOR PAPERS \*\*\*\*\*

**SPECIAL SESSION ON**

**Fault Tolerance and Software Architecture**

**SESSION ORGANIZERS:**

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**EDITORIAL BOARD: (Optional)**

[Name, University or Organization, Country, e-mail]

**SESSION DESCRIPTION:**

The design complexity of software development procedure makes the job of designers difficult to handle failures. The design complexity leads to software description difficult to understand. The sources of faults can be incorrect specification, incorrect implementation, fabrication defects and external defects. If faults are handled well at very initial stage of software development, the software deployed at an end will be highly reliable and trustworthy. Tolerating faults at an architecture level and the safety analyses approach will help in identifying and eliminating the design flaws. Fault tolerance maintains the continuity of system's intended function in presence of faults. However, it is practically impossible to design a completely fault free system. Hence, it is desirable to build a fault tolerant system. The probability of system failure increases whenever system fails to perform its intended function. There are various approaches to attain fault-tolerance. In all the approaches, one thing is common which is certain amount of redundancy. Early computing systems designers make use of redundancy to eliminate the effect of failed components.

**RECOMMENDED TOPICS:**

Topics to be discussed in this special session include (but are not limited to) the following:

- Fault Tolerance
- Service Oriented Architecture
- Architecture level software development
- Software Testing
- Architecture, design and frameworks
- Component and knowledge-based software engineering

- Software dependability
- Software validation, verification and inspection
- Software safety, security , privacy and risks
- Methods of software analysis and design

**SUBMISSION PROCEDURE:**

Researchers and practitioners are invited to submit papers for this special theme session on **[Fault Tolerance and Software Architecture]** *on or before [31-December-2020]*. All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE'S GUIDELINES FOR MANUSCRIPT SUBMISSIONS at <https://easychair.org/conferences/?conf=dosci2021>. All submitted papers will be reviewed on a double-blind, peer review basis.

**NOTE:** While submitting paper in this special session, please specify **[Fault Tolerance and Software Architecture]** at the top (above paper title) of the first page of your paper.

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