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An Overview of Fault-Tolerant Computer Systems

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Avaz Naghipour*

Department of Computer Engineering, University College of Nabi Akram, Tabriz, Iran

***Corresponding Author:** Avaz Naghipour, Department of Computer Engineering, University College of Nabi Akram, Tabriz, Iran.

Computer systems are involved in many aspects of human life. For example, we can mention air force control, train and subway control, nuclear power plant control, telecommunication, network, medical devices, banking communication, industrial automation and embedded systems (mobile, car, satellite, etc.). Ensuring the proper functioning of such systems should be designed in such a way that they can tolerate the problems that occur during their operation and provide the expected service. The aim of presenting this subject is to investigate the tolerance methods of the problems that occur in the hardware and software parts of a system. For this purpose, the book "Fault-Tolerant Design" by Elena Dubrova, which covers most of the topics, can be introduced to those interested.