



Principles of Fault Tolerant computing

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Lecture 1: Redundancy in Fault Tolerant Computing

Lecture 2: Quantitative evaluation of Dependability

Lecture 3: Fault tolerance: basic concepts and terminology

Lecture 4: Basic building blocks in Fault Tolerant distributed systems

Textbook and other references



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[Siewiorek et al., 1998] D. P. Siewiorek R.S. Swarz, Reliable Computer Systems Design and Evalutaion, 2nd Ed. Digital Press, 1998.

[Avizienis et al., 2004] Avizienis, J.C. Laprie, B. Randell, C. Landwehr. Basic Concepts and Taxonomy of Dependable and Secure Computing. IEEE Transactions on Dependable and Secure Computing, Vol. 1, N. 1, 2004.

[Lamport et al., 1982] L. Lamport, R. Shostak, M. Pease. The Byzantine Generals Problem. ACM Trans. on Progr. Languages and Systems, 4(3),1982. (Consensus problem)

[Silberschatz et al., 2005] Silberschatz, Korth and Sudarshan. Database System Concepts, 5th Ed., McGraw-Hill, 2005. (Atomic actions in distributed database)