Designing, Engineering, and Analyzing Reliable and Efficient Software

Hardeep Singh (Guru Nanak Dev University, India) and Kulwant Kaur (Apeejay Institute of Management, India)

Due to the role of software systems in safety-critical applications and in the satisfaction of customers and organizations, the development of efficient software engineering is essential.

Designing, Engineering, and Analyzing Reliable and Efficient Software discusses and analyzes various designs, systems, and advancements in software engineering. With its coverage on the integration of mathematics, computer science, and practices in engineering, this book highlights the importance of ensuring and maintaining reliable software and is an essential resource for practitioners, professors and students in these fields of study.

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Hardeep Singh is presently Professor, Department of Computer Science and Engineering; Director, Placement Cell and Dean, Alumni Guru Nanak Dev University, Amritsar. Having throughout first class academic career, Dr Singh is an M.S. (Software Systems) from Birla Institute of Technology and Science (BITS), Pilani and has received his Ph. D from Guru Nanak Dev University, Amritsar, India. His career spans more than two decades’ of research, research guidance at doctoral, M.Tech., MCA & B.Tech and university teaching in field of Computer Science and Engineering. During his this professional career, he has also been visiting faculty to different universities, institutes and corporate, apart from associating as member of UGC teams, AICTE panels, governing boards of various educational institutions and member of academic bodies like Board of Studies, R.D.C.s and Academic Councils of different universities viz. H.P. University, Shimla; Kurukshetra University, Kurukshetra; Punjab Technical University, Jalandhar; HNB Gharwal University, Srinagar, Uttarakhand; Punjab University, Chandigarh; etc. An active researcher and a prolific writer, Dr. Singh has authored five books and has contributed around 100 papers to several journals. He is also an active member many of Professional Societies like he is Fellow, British Computer Society (FBCS); Member, Association for Computing Machinery (ACM); Member, International Association of Engineers (IAENG); Global Member, Internet Society; Life Member, Punjab Science Congress and Computer Society of India etc. He is a frequent reviewer, discussant, and session chair for several seminars and conferences.
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