Chapter 1

Introduction

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[Howard Selland, President of Aeroquip Corp.] issues a blistering attack on the reliability and hidden costs of today’s software. He recently calculated the full cost of upgrading his company’s 50-person research lab in Ann Arbor, Mich., to Microsoft Corp.’s Windows 95 from Windows 3.1. The bill was $20,000 a person, or a total of $1 million. Such is the seductive pull of technology, however, that Aeroquip just kept rolling out the new [technology] (Wysocki, 1998).

Windows 3.1. Windows 3.11. Windows 95. Windows 98. Windows 2000. Will it ever end? Should it ever end? The “it,” of course, is the seemingly endless chain of software versions released by virtually every company in the software industry. New versions of existing software provide updates, corrections, and enhancements that are designed to significantly increase the productivity of individual users, which should in turn lead to increased productivity at the organizational level. In recent years, however, the software industry has faced growing resistance to the rapid release of software versions due to high implementation and conversion costs (Wysocki, 1998). Unfortunately, many organizations are forced to upgrade to current versions in order to maintain compatibility and interoperability among not only internal systems but also links to external suppliers, customers, etc., in an effort to maintain consistent and functional levels of information technology (IT) infrastructure development.

Until recently, the problems and challenges associated with the rapid changes in IT have not been studied in great detail (Benamati, Lederer, & Singh, 1997); however, recent studies have shown that the speed with which companies are introducing new IT products is having a substantial impact on the management of the IT function in organizations.
Moving to SaaS: Building a Migration Strategy from Concept to Deployment
Migrating Legacy Applications: Challenges in Service Oriented Architecture and
Cloud Computing Environments (pp. 186-205).
www.igi-global.com/chapter/moving-saas-building-migration-strategy/72217?camid=4v1a

Sliding-Mode Control of Large-Scale Fuzzy Interconnected Systems
(2017). Large-Scale Fuzzy Interconnected Control Systems Design and Analysis (pp. 176-194).
www.igi-global.com/chapter/sliding-mode-control-of-large-scale-fuzzy-interconnected-systems/181991?camid=4v1a