Enterprise information systems (EIS) comprises of information systems such as enterprise resource planning (ERP), supply chain management (SCM), customer relationship management (CRM) and e-commerce. The ERP package aims to integrate all key business activities through improved relationships at all levels to achieve a competitive advantage. ERP systems can be considered as an information technology (IT) infrastructure to facilitate the flow of information between all business processes in an organization. SCM is the practice of coordinating the flow of goods, services, information and finances as they move from raw materials to parts supplier to manufacturer to wholesaler to retailer to consumer. The fundamental theory behind CRM is to identify profitable customers, attract and retain them, and maximize their useful life span and the profits from them by establishing and fostering good relationships with them.

The primary objective of this edited book is to provide comprehensive coverage and understanding of various enterprise information systems (EIS) such as ERP, SCM and CRM. Design, development and implementation issues of EIS have been discussed. These include organizational, technological and managerial issues of EIS. The secondary objective of this edited book is to expand the knowledge on EIS and in turn help researchers and practitioners to develop suitable strategies, tactics, and operational policies for EIS and for improving communication in organizations. I believe, that this book would enable the young research scholars to kick off their research in the EIS effortlessly and provide them the channels required to do research in the EIS meticulously to help the enterprises improve their performance through the successful implementation of an information system. Discussing the design and implementation issues of EIS from different perspectives will help the practitioners to get themselves adapted to the information system in a smooth way and reap its benefits. This book intends to be a forum for exchanging new ideas and developments in the field of EIS. It also acts as a medium of communication among EIS researchers and practitioners.

This edited book comprises of two sections namely ‘Challenges and Issues in Enterprise Information Systems’ and ‘Supply Chain Management (SCM) System using Information Technology (IT) and Mathematical Modeling’. Section 1 consists of fourteen chapters and Section 2 consists of nine chapters. Section 1 addresses the software engineering approaches and methods for information systems. Specifically, requirements in cross-organizational ERP projects requirements management, agile software development for customizing ERPs, software metrics and processes for ERP projects, success stories and lessons learned from ERP projects, future of information systems, designing a CRM, designing test cases for enterprise application integration are very well discussed in this edited book. Section 2 deals with the application of mathematical modeling in SCM, designing an information technology enabled SCM system and applying fuzzy concepts to logistics.

Business information system is an area of greatest significance in any business enterprise today. This edited book “Enterprise Information Systems and Implementing IT Infrastructures: Challenges and Is-
suces” aims at identifying potential research problems and issues in the Enterprise Information Systems. The editor of this book has done an outstanding job by identifying the most demanding chapters for this book. I am confident that this book will definitely contribute to the information systems community and would be widely referred by the faculty members, researchers and practitioners in information systems across the globe.

Dr. Angappa Gunasekaran

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