

1. Record Nr.	UNINA9910145910803321
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Titolo	Design and Control of Workflow Processes : Business Process Management for the Service Industry // by Hajo A. Reijers
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2003
ISBN	3-540-36615-6
Edizione	[1st ed. 2003.]
Descrizione fisica	1 online resource (XII, 328 p.)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 2617
Disciplina	658.5/1
Soggetti	Production management Social sciences Humanities Computer science Application software Database management User interfaces (Computer systems) Human-computer interaction Operations Management Humanities and Social Sciences Theory of Computation Computer and Information Systems Applications Database Management User Interfaces and Human Computer Interaction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Workflow Modeling -- Workflow Design -- Performance Evaluation of Workflows -- Resource Allocation in Workflows -- Heuristic Workflow Redesign -- System and Practical Experience -- Conclusion.
Sommario/riassunto	The motivation behind the conception of this monograph was to advance scientific knowledge about the design and control of workflow processes. A workflow pr- ess (or workflow for short) is a specific type of business process, a way of or- nizing work and resources. Workflows are commonly found within large admin- trative organizations such as

banks, insurance companies, and governmental agencies. Carrying out the tasks of a workflow in a particular order is required to handle one type of case. Examples of cases are mortgage applications, customer complaints, and claims for unemployment benefits. A workflow used in handling mortgage applications may contain tasks for recording the application, specifying a mortgage proposal, and approving the final policy. The monograph concentrates on four workflow-related issues within the area of Business Process Management; the field of designing and controlling business processes. The first issue is how workflows can be adequately modeled. Workflow modeling is an indispensable activity to support any reasoning about workflows. Different purposes of workflow modeling can be distinguished, such as system management by Workflow Management Systems, knowledge management, costing, and budgeting. The focus of workflow modeling in this monograph is (a) to support simulation and analysis of workflows and (b) to specify a new workflow design. The main formalism used for the modeling of workflows is the Petri net. Many existing notions to define several relevant properties have been adopted, such as the workflow net and the soundness notion.
