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| 1. Record Nr. | UNICAMPANIASUN0040706 |
| Titolo | Stability and performance of slopes and embankments 2. : proceedings of a specialty conference : Berkeley, California, June 29-July 1, 1992 / sponsored by the Geotechnical engineering division of the American society of civil engineers ... [et al.] ; edited by Raymond B. Seed, Ross W. Boulanger |
| Pubbl/distr/stampa | New York : American society of civil engineers, 1992 |
| Descrizione fisica | 2 v. : ill. ; 22 cm. |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
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- | | |
|-------------------------|---|
| 2. Record Nr. | UNINA9910830129503321 |
| Autore | Aouad Ghassan |
| Titolo | Requirements engineering for computer integrated environments in construction [[electronic resource] /] / Ghassan Aouad & Yusuf Arayici |
| Pubbl/distr/stampa | Chichester, West Sussex, U.K. ; ; Ames, IA, : Blackwell Pub., 2010 |
| ISBN | 1-283-20478-9
9786613204783
1-4443-1774-1
1-4443-1775-X |
| Descrizione fisica | 1 online resource (258 p.) |
| Altri autori (Persone) | ArayiciYusuf |
| Disciplina | 690.0285 |
| Soggetti | Communication in the building trades
Building - Superintendence - Data processing
Requirements engineering |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Requirements Engineering for Computer Integrated Environments in |

Construction; Contents; Foreword; Preface; Acknowledgments; Abbreviations; Chapter 1 Introduction; 1.1 Definitions; 1.1.1 Computer integrated environments; 1.1.2 Requirements engineering; 1.2 Why Requirements Engineering Is Needed for the CIE Development; 1.3 How the Requirements Engineering Approach Is Formulated; Chapter 2 Requirements Engineering in Software Development; 2.1 Introduction; 2.2 Requirements Engineering; 2.3 Requirements Fundamentals and Principles; 2.3.1 Purposefulness; 2.3.2 Appropriateness; 2.3.3 Truthfulness

2.4 Requirements Engineering Process

2.4.1 Contextual design approach; 2.4.2 Use case-driven requirements analysis; 2.4.3 Agile requirements engineering processes; Chapter 3 Computer Integrated Environments; 3.1 Introduction; 3.2 The Construction Industry and its Features; 3.2.1 Benefits of CIE to the construction industry; 3.3 The Scope and Roles of CIE in Construction; 3.3.1 Building information modelling (BIM); 3.3.2 Product models; 3.4 Implementation of CIE in the Construction Industry; 3.5 The CIE Case Study Project 1; 3.5.1 The CIE system in Case Study 1; 3.6 The CIE Case Study Project 2

3.6.1 The CIE system in Case Study 2; 3.7 The CIE Case Study 3; 3.7.1 The CIE system in Case Study 3; 3.8 The CIE Case Study 4; 3.8.1 The CIE system in Case Study 4; Chapter 4 Requirements Engineering in CIE Development for the Construction Industry; 4.1 Introduction; 4.2 CIE Systems from Technological Perspective; 4.3 Requirements Engineering in the CIE Community; 4.3.1 The ATLAS system; 4.3.2 The OSCON system; 4.3.3 The SPACE system; 4.3.4 The WISPER system; 4.3.5 The GALLICON system; 4.3.6 The DIVERCITY system; 4.3.7 The nD modelling system; 4.4 Interviews in the Construction CIE Community

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6.1 Introduction

Sommario/riassunto

Efficient communication, collaboration, data exchange and sharing are crucial for the success of today's many multi-disciplinary and interdisciplinary work environments. The implementation of computer integrated environments (CIE) is increasing and the requirements engineering necessary for the development of these systems is critical. Requirements Engineering for Computer Integrated Environments in Construction provides an important source of information and advice for organizations needing bridge the gap between users and developers in the implementation of computer integrated solut