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Requirements

Engineering From

System Engineer

ring From

Software
System

Specifications
Goals To

Uml Models

To

Software S

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**Specifications
Engineering From
Requirements
Paperback
System Goals To
UML Models To
Software
January 30
2009**

**This book
contains the
refereed
proceedings of
the 15th**

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**International
Conference on
System Goals To
Qual Models To
Software
Support (BPMDS
2014) and the
19th
International
Conference on
Exploring
Modeling
Methods for**

Page 3/256

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**Systems Analysis
and Design
(EMMSAD 2014),
held together
with the 26th
International
Conference on
Advanced
Information
Systems
Engineering
(CAiSE 2014) in
Thessaloniki,**

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Greece, in June 2014. The 20 full papers accepted for BPMDS were selected from 48 submissions and cover a wide spectrum of issues related to business process development, modeling, and support. They are

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Software
Specifications
January 30 2009

**grouped into
topical sections
on business
process modeling
as a human-
driven process,
representing the
human
perspective of
business
processes,
supporting
humans in**

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Process

perspectives, and

BPMDS in

practice. The ten

full and three

short papers

accepted for

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**EMMSAD were
chosen from 27
submissions and
focus on
exploring,
evaluating, and
enhancing
modeling
methods and
methodologies
for the analysis
and design of
information**

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Requirements
**systems,
enterprises, and
business
processes. They
are grouped into
sections on
conceptual
modeling,
requirements
modeling,
business process
modeling, goal
and language**

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**action modeling,
enterprise and
business
modeling, and
new approaches.**

**This book
comprises a set of
papers selected
from those
presented at the
fifth «**

**International
Conference on**

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**Enterprise
Information
Systems »,
(ICEIS'2003) held
in Angers,
France, from 23
to 26 April 2003.
The conference
was organised by
École Supérieure
d'Électronique de
l'Ouest (ESEO) of
Angers, France**

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**Requirements
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**and the Escola
Superior de
Tecnologia of
Setúbal,
Portugal. Since
its first edition in
1999, ICEIS
focuses on real
world
applications and
aims at bringing
together
researchers,**

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engineers and practitioners interested in the advances and business applications of information systems. As in previous years, ICEIS'2003 held four simultaneous tracks covering

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**different aspects
of enterprise
computing:
Databases and
Information
Systems
Integration,
Artificial
Intelligence and
Decision Support
Systems,
Information
Systems Analysis**

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**Requirements
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Specifications
Agents and
Internet
Computing.
Although
ICEIS'2003
received 546
paper
submissions from
over 50 countries,
only 80 were
accepted as full**

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papers and presented in 30-minutes oral presentations. With an acceptance rate of 15%, these numbers demonstrate the intention of preserving a high quality forum for future editions of

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**this conference.
From the articles
accepted as long
papers for the
conference, only
32 were selected
for inclusion in
this book**
**Additional
keynote lectures,
tutorials and
industrial
sessions were**

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**also held during
ICEIS'2003, and,
for the first time
this year, the 1st
Doctoral
Consortium on
Enterprise
Information
Systems gave
PhD students an
opportunity to
present their
work to an**

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**international
audience of
experts in the
field of
information
systems.**

**An analysis of
product
development.
Systems. Product
development.
Requirements
specifications.**

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engineering
methods. ISAC
change analysis
and activity
study.
Information
strategy
planning. The ent
ity-relationship
approach I:
models. The entit
y-relationship**

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approach II:

methods.

Structured

analysis I:

models.

Structured

analysis II:

methods. Jackson

system

development I:

models. Jackson

system

development II:

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**methods. Method
integration and
strategy
selection. A
framework for
requirements
engineering I:
models. A
framework for
requirements
engineering II:
methods.
Development**

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strategies.

**Selecting a
development
strategy. Answers
to select**

exercises. Cases.

**An outline of
some
development
methods.**

**This Festschrift
volume,
published in**

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honor of John Mylopoulos on the occasion of his retirement from the University of Toronto, contains 25 high-quality papers, written by leading scientists in the field of conceptual modeling. The

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volume has been divided into six sections. The first section focuses on the foundations of conceptual modeling and contains material on ontologies and knowledge representation. The four sections

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**on software and
requirements
engineering,
information
systems,
information
integration, and
web and services,
represent the
chief current
application
domains of
conceptual**

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**modeling. Finally,
the section on
implementations
concentrates on
projects that
build tools to
support
conceptual
modeling. With
its in-depth
coverage of
diverse topics,
this book could**

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**be a useful
companion to a
course on
conceptual
modeling.**

**Availability,
Reliability, and
Security in
Information
Systems and HCI
Security
Requirements
Engineering**

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**Data Warehouse
Requirements
Engineering From
System Goals To
Use Models To
Software
Specification
Requirements
Engineering
Exam -
Foundation Level
- IREB compliant
Fundamentals,
Principles, and**

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Engineering From
System Goals To
Uml Models To
Software
**Techniques
Foundations of
Intelligent
Systems**

*As the first
to focus on
the issue of
Data Warehouse
Requirements
Engineering,
this book
introduces a*

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model-driven requirements process used to identify requirements granules and incrementally develop data warehouse fragments. In addition, it presents an

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*approach to
the pair-wise
integration of
requirements
granules for
consolidating
multiple data
warehouse*

*fragments. The
process is
systematic and
does away with*

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*the fuzziness
associated
with existing
techniques.*

*Thus,
consolidation
is treated as
a requirements
engineering
issue. The
notion of a
decision*

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*occupies a
central
position in
the decision-
based
approach. On
one hand,
information
relevant to a
decision must
be elicited
from*

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*stakeholders;
modeled; and
transformed
into multi-
dimensional
form. On the
other,
decisions
themselves are
to be obtained
from decision
applications.*

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For the former, the authors introduce a suite of information elicitation techniques specific to data warehousing. This

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information is subsequently converted into multi-dimensional form. For the latter, not only are decisions obtained from decision applications

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*for managing
operational
businesses,
but also from
applications
for
formulating
business
policies and
for defining
rules for
enforcing*

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Requirements
policies,
Engineering From
respectively.
System Goals To
In this
Uml Models To
context, the
Software
book presents
Specifications
a broad range
Paperback
of models,
January 30, 2009
tools and
techniques.
For readers
from academia,
the book

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*identifies the
scientific/tec
hno logical
problems it
addresses and
provides
cogent
arguments for
the proposed
solutions; for
readers from
industry, it*

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*presents an
approach for
ensuring that
the product
meets its
requirements
while ensuring
low lead times
in delivery.
Requirements
engineering
tasks have*

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become increasingly complex. In order to ensure a high level of knowledge and competency among requirements engineers, the International

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*Requirements
Engineering From
System Goals To
Board (IREB)
developed a
standardized
qualification
called the
Certified
Professional
for
Requirements
Engineering*

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(CPRE). The certification defines the practical skills of a requirements engineer on various training levels. This book is designed for

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*self-study and
covers the
curriculum for
the Certified
Professional
for
Requirements
Engineering
Foundation
Level exam as
defined by the
IREB. The 2nd*

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*edition has
been
thoroughly
revised and is
aligned with
the curriculum
Version 2.2 of
the IREB. In
addition, some
minor
corrections to
the 1st*

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*edition have
been included.*

About IREB:

*The mission of
the IREB is to
contribute to
the standardiz
ation of*

further

*education in
the fields of
business*

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*Requirements
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*analysis and
requirements
engineering by
providing
syllabi and
examinations,
thereby
achieving a
higher level
of applied
requirements
engineering.*

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*The IRE Board
is comprised
of a balanced
mix of
independent, i
nternationally
recognized
experts in the
fields of
economy,
consulting,
research, and*

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*science. The
IREB is a non-
profit
corporation.*

*For more
information
visit [www.cert
ified-re.com](http://www.certified-re.com)*

*This book
constitutes
the refereed
proceedings of*

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*the Third
International
Symposium on
Engineering
Secure
Software and
Systems, ESSoS
2011, held in
Madrid, Italy,
in February
2011. The 18
revised full*

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Requirements

papers

presented

together with

3 idea papers

were carefully

reviewed and

selected from

63

submissions.

The papers are

organized in

topical

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*sections on
model-based
security,
tools and
mechanisms,
Web security,
security
requirements
engineering,
and
authorization.*

This book

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*constitutes
the refereed
proceedings of
the 11th Joint
Conference on
Knowledge-
Based Software-
Engineering,
JCKBSE 2014,
held in
Volgograd,
Russia, in*

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September
2014. The 59
full and 3
short papers
presented were
carefully
reviewed and
selected from
197

submissions.

The papers are
organized in

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topical
Engineering From
sections on
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and tools for
Software
knowledge
Specifications
discovery and
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data mining;
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methods and
tools for
software
engineering
education;

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*knowledge
technologies
for semantic
web and
ontology
engineering; k
nowledge-based
methods and
tools for
testing,
verification
and*

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validation,
Engineering From
maintenance
System Goals To
and evolution;
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natural
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language
Specifications
processing,
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image analysis
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and

recognition; k
knowledge-based
methods and
applications

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*Requirements
in information
Engineering From
security,
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robotics and
Uml Models To
navigation;
Software
decision
Specifications
support
Paperback
methods for
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software*

*engineering;
architecture
of knowledge-
based systems,*

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including intelligent agents and softbots; automating software design and synthesis; knowledge management for business processes,

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*workflows and
enterprise
modeling; know
ledge-based
methods and
applications
in bioscience,
medicine and
justice; knowl
edge-based
requirements
engineering,*

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domain

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modeling;

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intelligent

Software

user

Specifications

interfaces and

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human-machine

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interaction;

lean software

engineering;

program

understanding,

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*programming
knowledge,
modeling
programs and
programmers.
Business
Systems and
Services:*

*Modeling and
Development
Requirements
Engineering*

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*Fundamentals,
2nd Edition
11th Joint
Conference,
JCKBSE 2014,
Volgograd,
Russia,
September
17-20, 2014.
Proceedings
Knowledge-
Based Software*

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Engineering:
Uml Models To
Laying a Firm
Software
Foundation
Specifications
26th*

*Paperback
International
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Conference,
CAiSE 2014,
Thessaloniki,
Greece, June
16-20, 2014,*

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Proceedings

Advanced space exploration is performed by unmanned missions with integrated autonomy in both flight and ground systems. Risk and feasibility are major factors

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supporting the use
of unmanned craft
and the use of
automation and
robotic
technologies
where possible.
Autonomy in
space helps to
increase the
amount of science
data returned

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from missions,
perform new
science, and
reduce mission
costs. Elicitation
and expression of
autonomy
requirements is
one of the most
significant
challenges the
autonomous

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spacecraft
engineers need to
overcome today.
This book
discusses the
Autonomy
Requirements
Engineering (ARE)
approach,
intended to help
software engineers
properly elicit,

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express, verify,
and validate
autonomy
requirements.

Moreover, a
comprehensive
state-of-the-art of
software

engineering for
aerospace is
presented to
outline the

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problems handled
by ARE along with
a proof-of-concept
case study on the
ESA's

BepiColombo
Mission

demonstrating the
ARE ' s ability to
handle autonomy
requirements.

This book

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Requirements Engineering From Modeling System Goals To Uml Models To Software Specifications
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describes a modeling approach (called the i* framework) that conceives of software-based information systems as being situated in environments in which social actors relate to each

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other in terms of goals to be achieved, tasks to be performed, and resources to be furnished.

A novel, model-driven approach to security requirements engineering that focuses on socio-

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technical systems
rather than merely
technical systems.

Security

requirements
engineering is
especially

challenging

because designers
must consider not
just the software
under design but

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also interactions among people, organizations, hardware, and software. Taking this broader perspective means designing a secure socio-technical system rather than a merely technical system. This book

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presents a novel, model-driven approach to designing secure socio-technical systems. It introduces the Socio-Technical Modeling Language (STS-ML) and presents a freely available

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software tool, STS-
Tool, that supports
this design
approach through
graphical
modeling,
automated
reasoning
capabilities to
verify the models
constructed, and
the automatic

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derivation of
security
requirements
documents. After
an introduction to
security
requirements
engineering and
an overview of
computer and
information
security, the book

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presents the STS-
ML modeling
language,
introducing the
modeling concepts
used, explaining
how to use STS-
ML within the STS
method for
security
requirements, and
providing

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guidelines for the creation of models. The book then puts the STS approach into practice, introducing the STS-Tool and presenting two case studies from industry: an online collaborative

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platform and an e-Government system. Finally, the book considers other methods that can be used in conjunction with the STS method or that constitute an alternative to it.

The book is suitable for course

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use or as a

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reference for

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practitioners.

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Exercises, review

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questions, and

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problems appear

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at the end of each

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chapter.

A collective

autonomic system

consists of

collaborating

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autonomic entities
which are able to
adapt at runtime,
adjusting to the
state of the
environment and
incorporating new
knowledge into
their behavior.

These highly
dynamic systems
are also known as

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ensembles. To ensure correct behavior of ensembles it is necessary to support their development through appropriate methods and tools which can guarantee that an

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autonomic system
lives up to its
intended purpose;
this includes
respecting
important
constraints of the
environment. This
State-of-the-Art
Survey addresses
the engineering of
such systems by

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presenting the methods, tools and theories developed within the ASCENS project. ASCENS was an integrated project funded in the period

2010-2015 by the 7th Framework Programme (FP7) of the European

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(FET Proactive).

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included in this
book are
organized in four
parts

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corresponding to
the research areas
of the project and
their concrete
applications: (I)
language and
verification for self-
awareness and self-
expression, (II)
modeling and
theory of self-
aware and

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adaptive systems,
(III) engineering
techniques for
collective
autonomic
systems, and last
but not least, (IV)
challenges and
feedback provided
by the case studies
of the project in
the areas of swarm

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robotics, cloud
computing and e-
mobility.

Engineering

Dependable

Software Systems

Requirements

Writing for System

Engineering

A Decision Based

Approach

Requirements

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Held at CAiSE
2014,

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Thessaloniki,
Greece, June
16-17, 2014,
Proceedings
Competitive
Engineering
documents Tom
Gilb's unique,
ground-breaking
approach to
communicating
management
objectives and

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systems

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Useful Models To

unambiguously.

Competitive

Engineering is a

revelation for

anyone involved in

management and

risk control.

Already used by

thousands of

project managers

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Requirements
and systems
engineers around
the world, this is a
handbook for
initiating,
controlling and
delivering complex
projects on time
and within budget.

The Competitive
Engineering
methodology
provides a practical
set of tools and

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techniques that
enable readers to
effectively design,
manage and deliver
results in any
complex
organization - in
engineering,
industry, systems
engineering,
software, IT, the
service sector and
beyond. Elegant,
comprehensive and

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accessible, the
Competitive
Engineering
methodology
provides a practical
set of tools and
techniques that
enable readers to
effectively design,
manage and deliver
results in any
complex
organization - in
engineering,

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Software, IT, the
industry, systems
engineering,

software, IT, the
service sector and
beyond. Provides

detailed, practical
and innovative

coverage of key
subjects including

requirements
specification, design
evaluation,

specification quality
control and

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evolutionary project
management Offers
a complete, proven
and meaningful 'end-
to-end' process for
specifying,
evaluating,
managing and
delivering high
quality solutions
Tom Gilb's clients
include HP, Intel,
CitiGroup, IBM,
Nokia and the US

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Department of
Engineering From
Defense

This book Goals To

constitutes the To

refereed

proceedings of the

IFIP WG 8.4, 8.9,

TC 5 International

Cross-Domain

Conference on

Availability,

Reliability and

Security, CD-ARES

2013, held in

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Requirements
Engineering From
Regensburg,
Germany, in
September 2013.

The 21 revised
papers presented
were carefully
reviewed and
selected for
inclusion in the
volume. The papers
concentrate on the
many aspects of
information
systems bridging

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the gap between research results in computer science and the many application fields.

They are organized in the following topical sections:

economic, ethical, legal, multilingual, organizational and social aspects; context-oriented information

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integration;
data/information
management as a
service; context-
oriented information
integration and
location-aware
computing; security
and privacy; risk
management and
business continuity;
and security and
privacy and location
based applications.

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Also included are 15 papers from a special session on Human-Computer Interaction and Knowledge Discovery (HCI-KDD 2013).

This book focuses on various topics related to engineering and management of requirements, in

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particular
elicitation,
negotiation,
prioritisation, and
documentation
(whether with
natural languages or
with graphical
models). The book
provides methods
and techniques that
help to
characterise, in a
systematic manner,

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the requirements of the intended engineering system. It was written with the goal of being adopted as the main text for courses on requirements engineering, or as a strong reference to the topics of requirements in courses with a broader scope. It

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can also be used in vocational courses, for professionals interested in the software and information systems domain.

Readers who have finished this book will be able to: -
establish and plan a requirements engineering process within the

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development of
Engineering From
complex
System Goals To
engineering
systems; - define
and identify the
Software
types of relevant
Specifications
requirements in
Paperback
engineering
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projects; - choose
and apply the most
appropriate
techniques to elicit
the requirements of
a given system; -

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conduct and manage negotiation and prioritisation processes for the requirements of a given engineering system; - document the requirements of the system under development, either in natural language or with graphical and formal models. Each chapter

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includes a set of exercises.

"Information security covers the protection of information against unauthorized disclosure, transfer, modification, and destruction, whether accidentally or intentionally.

Quality of life in

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general and of individual citizens, and the effectiveness of the economy critically depends on our ability to build software in a transparent and efficient way. Furthermore, we must be able to enhance the software

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development process systematically in order to ensure software's safety and security. This, in turn, requires very high software reliability, i.e., an extremely high confidence in the ability of the software to perform flawlessly.

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Foundations of
Engineering From
software
technology provide
models that enable
us to capture
application domains
and their
requirements, but
also to understand
the structure and
working of software
systems and
software
architectures.

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Based on these foundations tools allow to prove and ensure the correctness of software's functioning. New developments must pay due diligence to the importance of security-related aspects, and align current methods and techniques to

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information
Engineering From
security, integrity,
System Goals To
and system
reliability. The
articles in this book
describe the state-
of-the-art ideas on
how to meet these
challenges in

software
engineering."

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TC 5 International
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**resources. The
book also
explains how
to strengthen
interpersonal
relationships
and
communications
which are
major
contributors
to project**

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effectiveness.

Moreover,

analysts find

clear examples

and checklists

to help them

implement best

practices.

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tasks have

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become

increasingly

complex. In

order to

ensure a high

level of

knowledge and

competency

among

requirements

engineers, the

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(CPRE). The certification defines the practical skills of a requirements engineer on various

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Projects
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constitutes the
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2012, held in
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in
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2012. The 50 papers presented in this volume were carefully reviewed and selected from a total of 181 submissions. They are organized in topical sections named:

- metamodels and domain specific modeling;
- models

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at runtime; model
management;
modeling methods
and tools,
consistency
analysis, software
product lines;
foundations of
modeling; static
analysis
techniques; model
testing and
simulation; model

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transformation;
model matching,
tracing and
synchronization;
modeling practices
and experience;
and model analysis.

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Software Intensive
Systems provides a

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systems, presenting
a systematic,
promising approach
to identifying,
clarifying,
modeling, deriving,
and validating the
requirements of

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simulations. In addition, the book
presents a new view of software
capability, i.e. the effect-based
software capability in terms of
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modeling. Provides novel and systematic methodologies for engineering the requirements of software-intensive systems Describes ontologies and easily-understandable notations for modeling software-intensive systems

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Provides an essential, practical guide and formalization tools for the task of identifying the

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Systems

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written by one of
the developers of

rich traceability -

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overview of DOORS

- a software tool
which serves as an

enabler of a
requirements
management

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"In recent years we have been finding ourselves with a shortage of engineers with good competence in requirements engineering.

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Perhaps this is in part because requirements management tool vendors have persuaded management that a glitzy tool will solve their requirements engineering problems. Of course, the tools only make it

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possible for
engineers who
understand
requirements
engineering to do a
better job. This
book goes a long
way towards
building a
foundational set of
skills in
requirements
engineering, so that

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today's powerful tools can be used sensibly. Of particular value is a recognition of the place software requirements have within the system context, and of ways for dealing with that sensitive connection. This is an important book.

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I think its particular value in industry will be to bring the requirements engineers and their internal customers to a practical common understanding of what can and should be achieved." (Byron Purves, Technical

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Fellow, The Boeing
Company)

This tutorial volume
includes revised
and extended

lecture notes of six
long tutorials, five
short tutorials, and
one peer-reviewed

participant
contribution held at
the 4th

International

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Autonomy

Requirements

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Systems Modeling

This book constitutes the proceedings of the Third Asia Pacific Requirements Engineering

Engineering

Symposium, APRES

2016, held in Nagoya,

Japan, in November

2016. The 7 full

papers presented

together with three

short papers, were

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carefully reviewed
and selected from 14
submissions. The
papers are organized
in topical sections on
requirements
traceability and
prioritization;
requirements
modeling and process
for quality;
requirements
validation;

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requirements analysis.

Information Systems
Development:
System Goals To

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Business Systems and

Services: Modeling

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the collected

proceedings of the

19th International

Conference on

Information Systems

Development held in

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Republic, August 25 - 27, 2010. It follows in the tradition of previous conferences in the series in exploring the connections between industry, research and education. These proceedings represent ongoing reflections within the academic community on

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established information systems topics and emerging concepts, approaches and ideas. It is hoped that the papers herein contribute towards disseminating research and improving practice.

System Requirements Engineering presents a balanced view of the

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Requirements
issues, concepts,
Engineering From
models, techniques
System Goals To
and tools found in
Uml Models To
requirements
Software
engineering research
Specifications
and practice.

Requirements
engineering is
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presented from
business, behavioural
and software
engineering
perspectives and a

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general framework is established at the outset. This book considers requirements engineering as a combination of three concurrent and interacting processes: eliciting knowledge related to a problem domain, ensuring the validity of such

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knowledge and specifying the problem in a formal way. Particular emphasis is given to requirements elicitation techniques and there is a fully integrated treatment of the development of requirements specifications through enterprise modelling,

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functional requirements and non-functional requirements.

Requirements engineering has since long acknowledged the importance of the notion that system requirements are stakeholder goals—rather than system functions—and

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ought to be elicited, modeled and analyzed accordingly. In this book, Nurcan and her co-editors collected twenty contributions from leading researchers in requirements engineering with the intention to comprehensively present an overview of

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Specifications

the different perspectives that exist today, in 2010, on the concept of intention in the information systems community.

These original papers honor Colette Rolland for her contributions to this field, as she was probably the first to emphasize that ‘intention’ has to be

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considered as a first-class concept in information systems engineering. Written by long-term collaborators (and most often friends) of Colette Rolland, this volume covers topics like goal-oriented requirements engineering, model-driven development,

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Presented to her on the

occasion of her

retirement at CaISE

2010 in Hammamet,

the conference she

once cofounded and

which she helped to

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grow and prosper for
more than 20 years.

Software System

Reliability and

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Social Modeling for

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Enterprise Information

Systems V

Designing Secure

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International Summer
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Requirements
engineering is the
process of
eliciting individual

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stakeholder
requirements and
needs and
developing them
into detailed,
agreed
requirements
documented and
specified in such a
way that they can
serve as the basis
for all other

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Requirements

system

development

activities. In this

textbook, Klaus

Pohl provides a

comprehensive

and well-

structured

introduction to

the fundamentals,

principles, and

techniques of

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requirements engineering. He presents approved techniques for eliciting, negotiating and documenting as well as validating, and managing requirements for software-intensive systems. The

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various aspects of the process and the techniques are illustrated using numerous examples based on his extensive teaching experience and his work in industrial collaborations.

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His presentation
aims at
professionals,
students, and
lecturers in
systems and
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engineering or
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systems analysts,
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benefit in their
daily work from
the didactically
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procedures and
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experience.

Students and
lecturers will
appreciate the
comprehensive
description of
sound
fundamentals,
principles, and

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techniques, which is completed by a huge commented list of references for further reading.

Lecturers will find additional

teaching material on the book's website, www.requirements-

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This book
constitutes the
proceedings of
26th International
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Greece in June
2014. The 41
papers and 3
keynotes
presented were
carefully reviewed
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226 submissions.

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papers were
presented in 13
sessions: clouds

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and services;
requirements;
product lines;
requirements
elicitation;
processes; risk
and security;
process models;
data mining and
streaming;
process mining;
models; mining

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engineering.

Because almost
all technical
systems are more
or less interfaced
with software
these days,
attacks against
computer systems

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can cause

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considerable

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economic and

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physical damage.

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dependability of

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such systems, as

well as the

improvement of

cyber security and

its development

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process, are
amongst the most
challenging and
crucial issues in
current computer
science research.

This book
contains the
lectures from the
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This two week
course for young
computer
scientists and

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mathematicians
working in the
field of formal
software and
systems was
designed to give
an in-depth
presentation of
state-of-the-art
topics in the field,
as well as
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international
contacts and
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the teaming up of
leading
researchers and
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The 12 lectures
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cover subjects

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including: model-based testing, formal modeling and verification, deductively verified software, model checking, performance analysis, integrating risk analysis, embedded

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systems and
model checking,
among others.

The book will be
of interest to all
those whose work
involves the
development of
large-scale,
reliable and
secure software
systems.

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Essential

comprehensive
coverage of the
fundamentals of
requirements
engineering

Requirements
engineering (RE)

deals with the
variety of
prerequisites that
must be met by a

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software system
within an
organization in
order for that
system to produce
stellar results.

With that
explanation in
mind, this must-
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presents a
disciplined

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approach to the
engineering of
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requirements.

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guide offers a comprehensive review of the aim, scope, and role of requirements engineering as well as best practices and flaws to avoid.

Shares state-of-the-art techniques for domain

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of system

modeling in the
specific context of
engineering
requirements

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Presents various forms of reasoning about models for requirements quality assurance
Discusses the transitions from requirements to software specifications to software

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architecture In addition, case studies are included that complement the many examples provided in the book in order to show you how the described method and techniques are applied in

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2016, Proceedings
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Techniques in
Software
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MODELS 2012,
Innsbruck,
Austria,
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October 5, 2012,

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Requirements Engineering From System Goals To Uml Models To Software Specifications
Requirements engineering is the process by which the requirements for software systems are gathered, analyzed, documented, and managed throughout their complete lifecycle. Traditionally it has been concerned with technical goals for, functions of, and

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**constraints on
software systems.**

**Aurum and Wohlin,
however, argue that it
is no longer
appropriate for
software systems
professionals to focus
only on functional and
non-functional aspects
of the intended system
and to somehow
assume that
organizational context**

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and needs are outside their remit. Instead, they call for a broader perspective in order to gain a better understanding of the interdependencies between enterprise stakeholders, processes, and software systems, which would in turn give rise to more appropriate techniques

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and higher-quality systems. Following an introductory chapter that provides an exploration of key issues in requirements engineering, the book is organized in three parts. Part 1 presents surveys of state-of-the-art requirements engineering process research along with critical assessments of

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**existing models,
frameworks and
techniques. Part 2
addresses key areas in
requirements
engineering, such as
market-driven
requirements
engineering, goal
modeling,
requirements
ambiguity, and others.
Part 3 concludes the
book with articles that**

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present empirical evidence and experiences from practices in industrial projects. Its broader perspective gives this book its distinct appeal and makes it of interest to both researchers and practitioners, not only in software engineering but also in other disciplines such

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**as business process
engineering and
management science.**

**Praise for the first
edition: “This excellent
text will be useful to
every system engineer
(SE) regardless of the
domain. It covers**

**ALL relevant SE
material and does so in
a very clear,
methodical fashion.**

The breadth and depth

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of the author's
presentation of SE
principles and
practices is
outstanding.” –Philip
Allen This textbook
presents a
comprehensive, step-
by-step guide to System
Engineering analysis,
design, and
development via
an integrated set of
concepts, principles,

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**practices,
and methodologies. The
methods presented in
this text apply to any
type of human system
-- small, medium, and
large organizational
systems and system
development projects
delivering engineered
systems or services
across multiple
business sectors such
as**

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Requirements Engineering From System Goals To Software Specifications
medical, transportation, financial, educational, governmental, aerospace and defense, utilities, political, and charity, among others. Provides a common focal point for “bridging the gap” between and unifying System Users, System Acquirers, multi-discipline System Engineering, and

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**Project, Functional,
and Executive
Management
education, knowledge,
and decision-making
for developing systems,
products, or services
Each chapter provides
definitions of key
terms, guiding
principles, examples,
author's notes, real-
world examples, and
exercises, which**

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**highlight and reinforce
key SE&D concepts
and practices**

**Addresses concepts
employed in Model-
Based Systems**

**Engineering (MBSE),
Model-Driven Design
(MDD),**

Unified Modeling

Language (UML™) /

Systems Modeling

Language (SysML™),

and Agile/Spiral/V-

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Model Development
such as user needs,
stories, and use cases
analysis; specification
development; system
architecture
development; User-
Centric System Design
(UCSD); interface
definition & control;
system integration &
test; and Verification
& Validation (V&V)
Highlights/introduces

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**a new 21st Century
Systems Engineering &
Development (SE&D)
paradigm that is easy
to understand and
implement. Provides
practices that are
critical staging points
for technical decision
making such as
Technical
Strategy Development;
Life Cycle
requirements; Phases,**

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**Modes, & States; SE
Process; Requirements
Derivation; System Ar
chitecture Development
, User-Centric System
Design (UCSD);
Engineering Standards,
Coordinate Systems,
and Conventions; et al.
Thoroughly
illustrated, with end-of-
chapter exercises
and numerous case
studies and examples,**

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Engineering Analysis,

Design, and

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Edition is a

primary textbook for

multi-discipline,

engineering, system

analysis, and project

management undergra

duate/graduate level

students and a valuable

reference for

professionals.

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This classroom-texted textbook/reference presents a set of useful modeling techniques, describing how these can be combined into a powerful framework for the analysis and design of business systems. These techniques follow an interactive modeling and simulation (IMS) approach, enabling the

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modeling and simulation of separate parts of the system at different levels of abstraction, and the composition of these parts in a flexible crosscutting manner that preserves the behavior of the individual parts.

Topics and features:
presents a detailed introduction to the

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**foundations of IMS for
business system design,
covering protocol
modeling and goal
modeling semantics;
describes the practical
application of IMS for
business system design,
illustrated by a
selection of useful case
studies; highlights the
advantages of this
approach to IMS for
business system design,**

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with a focus on performance management, motivation modeling, and communication; includes review questions and exercises at the end of each chapter.

This volume contains the papers selected for presentation at the 17th International Symposium on

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**Methodologies for
Engineering From
(ISMIS 2008), held in
York University,
Toronto, Canada, May
21–23, 2008. ISMIS is
a conference series
started in 1986. Held
twice every three
years, ISMIS provides
an inter- tional forum
for exchanging
scienti?c research and
technological**

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achievements in building intelligent systems. Its goal is to achieve a vibrant interchange - tween researchers and practitioners on fundamental and advanced issues related to intelligent systems. ISMIS 2008 featured a selection of latest research work and application

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**from the following
areas related to
intelligent systems:
active media
human-computer
interaction, autonomic
and evolutionary
computation, digital
libraries, intel- gent
agent technology,
intelligent information
retrieval, intelligent
information systems,
intelligent language**

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processing, knowledge representation and integration, knowledge discovery and data mining, knowledge visualization, logic for artificial intelligence, soft computing, Web intelligence, and Web services. - searchers and developers from 29 countries submitted more than 100 full - pers to the conference.

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Each paper was rigorously reviewed by three committee members and external reviewers. Out of these submissions, 40% were selected as regular papers and 22% as short papers. ISMIS 2008 also featured three plenary talks given by John Mylopoulos, Jiawei Han and Michael

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Lowry. They spoke on their recent research in age-oriented software engineering, information network mining, and intelligent software engineering tools, respectively.

Model Driven

Engineering

Languages and

Systems

Competitive

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**Intentional
Engineering From
Perspectives on
Information Systems
Engineering To
Conceptual Modeling:
Foundations and
Applications
Frameworks for
Understanding
A Study Guide for the
Certified Professional
for Requirements
Engineering Exam -
Foundation Level -**

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Ireb Compliant

Learn how to create good requirements when designing hardware and software systems. While this book emphasizes writing traditional “shall” statements, it also provides

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guidance on use case design and creating user stories in support of agile methodologies.

The book surveys modeling techniques and various tools that support requirements collection and

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analysis. You'll learn to manage requirements, including discussions of document types and digital approaches using spreadsheets, generic databases, and dedicated requirements

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tools. Good, clear examples are presented, many related to real-world work the author has done during his career. Requirements Writing for System Engineering advantages of different requirements

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approaches and
implement them
correctly as your
needs evolve.

Unlike most
requirements
books,

Requirements
Writing for
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teaches writing
both hardware

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and software requirements because many projects include both areas. To exemplify this approach, two example projects are developed throughout the book, one focusing on hardware and the

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Specifications

other on
software. This
book Presents
many techniques
for capturing
requirements.

Demonstrates
gap analysis to
find missing
requirements.

Shows how to
address both
software and

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hardware, as most projects involve both.

Provides extensive examples of “shall” statements, user stories, and use cases. Explains how to supplement or replace

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January 08 2009

traditional
requirement
statements with
user stories and
use cases that
work well in agile
development
environments
What You Will
Learn
Understand the
14 techniques for
capturing all

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requirements.

Address software and hardware needs; because most projects involve both.

Ensure all statements meet the 16 attributes of a good requirement.

Differentiate the 19 different

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functional types
of requirement,
and the 31 non-
functional types.

Write

requirements

properly based

on extensive

examples of good
'shall'

statements, user
stories, and use
cases. Employ

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Requirements modeling techniques to mitigate the imprecision of words. Audience Writing Requirements teaches you to write requirements the correct way. It is targeted at the requirements

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engineer who
wants to improve
and master his
craft. This is also
an excellent book
from which to
teach
requirements
engineering at
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all levels, from Federal to local levels, can use this book to ensure they begin all development projects correctly. As well, contractor companies supporting government development are

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also excellent audiences for this book.

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field of requirements engineering (RE). The title might seem to be a bit of a conundrum; after all, surely requirements come from people so all requirements should be user-centred. Sadly,

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that is not always
so; many system
disasters have
been caused
simply because
requirements
engineering was
not user-centred
or, worse still,
was not practised
at all. So this
book is about
putting the

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people back into
com puting,
although not
simply from the
HCI (human-
computer
interaction)
sense; instead,
the focus is on
how to
understand what
people want and
then build

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appropriate

computer

systems.

This textbook

lays the

foundations for S

ystem-of-Systems

Requirements

Engineering and

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Management

practices,

principles,

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technique, and processes. It provides a comprehensive treatment of requirements engineering, an integral part of Multidisciplinary Systems Engineering. The book takes the student/reader

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though the entire process of documenting, analyzing, tracing, prioritizing, and managing requirements, and then goes on to describe controlling and communicating requirements.

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Engineering
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of John

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Third
International
Symposium,
ESSoS 2011,
Madrid, Spain,
February 9-10,
2011,
Proceedings