

Read Free Process Mining:
Data Science In Action

Process Mining: Data Science In Action

*As technology becomes
increasingly intelligent,
various factors within the
field of data science are*

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seeing significant transformation. Process analysis is one area that is undergoing substantial development due to the implementation of semantic reasoning and web

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technologies. The congruence of these two systems has created various applications and developments in data processing and analysis across several

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*professional fields.
Applications and
Developments in Semantic
Process Mining is an
essential reference source
that discusses the
improvement of process*

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mining algorithms through the implementation of semantic modeling and representation. Featuring research on topics such as domain ontologies, fuzzy modeling, and information

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extraction, the book takes into account the different stages of process mining and its application in real time and then expounds the classical process mining techniques

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to semantical preparation of the extracted models for further analysis and querying at a more abstract level. The book provides a wide-ranging idea of the application

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*and development of
semantic process mining
that is expected to be
beneficial and used by
professionals, software
and data engineers,
software developers, IT*

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*experts, business owners
and entrepreneurs, and
process analysts.*

*Data Science and Analytics
with Python is designed
for practitioners in data
science and data analytics*

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in both academic and business environments. The aim is to present the reader with the main concepts used in data science using tools developed in Python, such

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as SciKit-learn, Pandas, Numpy, and others. The use of Python is of particular interest, given its recent popularity in the data science community. The book can be used by

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seasoned programmers and newcomers alike. The book is organized in a way that individual chapters are sufficiently independent from each other so that the reader is comfortable

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using the contents as a reference. The book discusses what data science and analytics are, from the point of view of the process and results obtained. Important

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features of Python are also covered, including a Python primer. The basic elements of machine learning, pattern recognition, and artificial intelligence

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that underpin the algorithms and implementations used in the rest of the book also appear in the first part of the book. Regression analysis using Python,

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clustering techniques, and classification algorithms are covered in the second part of the book.

Hierarchical clustering, decision trees, and ensemble techniques are

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*also explored, along with
dimensionality reduction
techniques and
recommendation systems.
The support vector machine
algorithm and the Kernel
trick are discussed in the*

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last part of the book.

About the Author Dr. Jesús Rogel-Salazar is a Lead Data scientist with experience in the field working for companies such as AKQA, IBM Data Science

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Studio, Dow Jones and others. He is a visiting researcher at the Department of Physics at Imperial College London, UK and a member of the School of Physics,

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*Astronomy and Mathematics
at the University of
Hertfordshire, UK, He
obtained his doctorate in
physics at Imperial
College London for work on
quantum atom optics and*

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ultra-cold matter. He has held a position as senior lecturer in mathematics as well as a consultant in the financial industry since 2006. He is the author of the book

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Essential Matlab and Octave, also published by CRC Press. His interests include mathematical modelling, data science, and optimization in a wide range of applications

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*including optics, quantum
mechanics, data
journalism, and finance.
moderation of the
workshops, and the
publication process.
A guide to putting*

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*cognitive diversity to
work Ever wonder what it
is that makes two people
click or clash? Or why
some groups excel while
others fumble? Or how you,
as a leader, can make or*

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*break team potential?
Business Chemistry holds
the answers. Based on
extensive research and
analytics, plus years of
proven success in the
field, the Business*

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Chemistry framework provides a simple yet powerful way to identify meaningful differences between people's working styles. Who seeks possibilities and who

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*seeks stability? Who
values challenge and who
values connection?
Business Chemistry will
help you grasp where
others are coming from,
appreciate the value they*

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bring, and determine what they need in order to excel. It offers practical ways to be more effective as an individual and as a leader. Imagine you had a more in-depth

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*understanding of yourself
and why you thrive in some
work environments and
flounder in others.*

*Suppose you had a clearer
view on what to do about
it so that you could*

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always perform at your best. Imagine you had more insight into what makes people tick and what ticks them off, how some interactions unlock potential while others

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shut people down. Suppose you could gain people's trust, influence them, motivate them, and get the very most out of your work relationships. Imagine you knew how to create a work

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environment where all types of people excel, even if they have conflicting perspectives, preferences and needs. Suppose you could activate the potential benefits of

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*diversity on your teams
and in your organizations,
improving collaboration to
achieve the group's
collective potential.
Business Chemistry offers
all of this--you don't*

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*have to leave it up to
chance, and you shouldn't.
Let this book guide you in
creating great chemistry!
BPM 2007 International
Workshops, BPI, BPD, CBP,
ProHealth, RefMod,*

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*semantics4ws, Brisbane,
Australia, September 24,
2007, Revised Selected
Papers*

*Process Mining
Occupational Outlook
Handbook*

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*Data Mining and Learning
Analytics*

Discovery Science

*Interactive Process Mining
in Healthcare*

*Data Science and Analytics
with Python*

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The Conference is aimed at giving the highest quality exposure to Engineering, Computer Science, Information System and Technology, Mathematics, Statistics and Actuarial Science & Risk

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Management The event attracts practicing professionals, researchers, professors and University students from Pakistan and around the world This book constitutes revised selected papers from the

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International Workshops held at the Second International Conference on Process Mining, ICPM 2020, which took place during October 4-9, 2020. The conference was planned to take place in Padua, Italy, but had to

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be held online due to the COVID-19 pandemic. The conference focuses on the area of process mining research and practice, including theory, algorithmic challenges, and applications. The co-located

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workshops provided a forum for novel research ideas. The 29 papers included in this volume were carefully reviewed and selected from 59 submissions. They stem from the following workshops: 1st International

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Workshop on Event Data and Behavioral Analytics (EDBA) 1st International Workshop on Leveraging Machine Learning in Process Mining (ML4PM) 1st International Workshop on Streaming Analytics for Process

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**Mining (SA4PM'20) 5th
International Workshop on
Process Querying, Manipulation,
and Intelligence (PQMI) 3rd
International Workshop on
Process-Oriented Data Science
for Healthcare (PODS4H) 1st**

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International Workshop on Trust and Privacy in Process Analytics (TPPA)

**More and more information
about business processes is
recorded by information
systems in the form of so-called**

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“event logs”. Despite the omnipresence of such data, most organizations diagnose problems based on fiction rather than facts. Process mining is an emerging discipline based on process model-driven

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approaches and data mining. It not only allows organizations to fully benefit from the information stored in their systems, but it can also be used to check the conformance of processes, detect bottlenecks, and predict

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execution problems. Wil van der Aalst delivers the first book on process mining. It aims to be self-contained while covering the entire process mining spectrum from process discovery to operational

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support. In Part I, the author provides the basics of business process modeling and data mining necessary to understand the remainder of the book. Part II focuses on process discovery as the most important process

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mining task. Part III moves beyond discovering the control flow of processes and highlights conformance checking, and organizational and time perspectives. Part IV guides the reader in successfully applying

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process mining in practice, including an introduction to the widely used open-source tool ProM. Finally, Part V takes a step back, reflecting on the material presented and the key open challenges. Overall, this book

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provides a comprehensive overview of the state of the art in process mining. It is intended for business process analysts, business consultants, process managers, graduate students, and BPM researchers.

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This book constitutes the proceedings of the CAiSE Forum from the 26th International Conference on Advanced Information Systems Engineering, CAiSE 2014, held in Thessaloniki, Greece, June 2014.

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The CAiSE 2014 Forum was a place to present and discuss new ideas, emerging topics, and controversial positions, and to demonstrate innovative tools and systems related to information systems

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engineering. To this end, three types of submissions were invited: visionary papers presenting innovative research projects at an early stage, demo papers describing novel tools and prototypes; and case

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studies reporting industrial applications. The 17 papers in this volume were carefully reviewed and selected from 45 submissions and include 12 visionary papers, four demo papers, and one case study. The

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reworked and extended versions of the original presentations cover topics such as business process management, process mining, enterprise architecture and modeling, model-driven development, and requirements

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engineering.

**Relating Processes and Models
Transactions on Petri Nets and
Other Models of Concurrency II
Biomedical Engineering
Systems and Technologies
2019 13th International**

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**Conference on Mathematics,
Actuarial Science, Computer
Science and Statistics (MACS)
What You Need to Know about
Data Mining and Data-Analytic
Thinking
Theoretical Aspects, Algorithms,**

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**Techniques and Open
Challenges in Process Mining
Data Mining For Dummies
*Process Mining Data
Science in Action* Springer
*Digital classrooms have
become a common***

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addition to curriculums in higher education; however, such learning systems are only successful if students are properly motivated to learn. Optimizing Student

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Engagement in Online Learning Environments is a critical scholarly resource that examines the importance of motivation in digital classrooms and outlines

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methods to reengage learners. Featuring coverage on a broad range of topics such as motivational strategies, learning assessment, and student involvement, this

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***book is geared toward
academicians,
researchers, and
students seeking current
research on the
importance of
maintaining ambition***

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among learners in digital classrooms.

This book describes process mining use cases and business impact along the value chain, from corporate to local

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***applications,
representing the state of
the art in domain know-
how. Providing a set of
industrial case studies
and best practices, it
complements academic***

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publications on the topic. Further the book reveals the challenges and failures in order to offer readers practical insights and guidance on how to avoid the pitfalls and

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***ensure successful
operational deployment.
The book is divided into
three parts: Part I
provides an introduction
to the topic from
fundamental principles to***

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key success factors, and an overview of operational use cases. As a holistic description of process mining in a business environment, this part is particularly

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useful for readers not yet familiar with the topic. Part II presents detailed use cases written by contributors from a variety of functions and industries. Lastly, Part III

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provides a brief overview of the future of process mining, both from academic and operational perspectives. Based on a solid academic foundation, process

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mining has received increasing interest from operational businesses, with many companies already reaping the benefits. As the first book to present an overview of

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successful industrial applications, it is of particular interest to professionals who want to learn more about the possibilities and opportunities this new

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technology offers. It is also a valuable resource for researchers looking for empirical results when considering requirements for enhancements and

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***further developments.
This book offers a
comprehensive
introduction to workflow
management, the
management of business
processes with***

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***information technology.
By defining, analyzing,
and redesigning an
organization's resources
and operations, workflow
management systems
ensure that the right***

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information reaches the right person or computer application at the right time. The book provides a basic overview of workflow terminology and organization, as well

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as detailed coverage of workflow modeling with Petri nets. Because Petri nets make definitions easier to understand for nonexperts, they facilitate communication

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between designers and users. The book includes a chapter of case studies, review exercises, and a glossary. A special Web site developed by the authors, [Page 78/264](http://www.workflowco</i></p></div><div data-bbox=)

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***urse.com, features
animation, interactive
examples, lecture
materials, exercises and
solutions, relevant links,
and other valuable
resources for the***

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classroom.

***Process Mining in
Healthcare***

***5th International
Conference, DS 2002,
Lubeck, Germany,
November 24-26, 2002,***

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***Proceedings
Process Mining
Workshops
Process Mining
Techniques in Business
Environments
Applications and***

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***Developments in
Semantic Process Mining
Scientific Data Mining
Comparing Observed and
Modeled Processes***

This open access book
comprehensively covers the

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fundamentals of clinical data science, focusing on data collection, modelling and clinical applications. Topics covered in the first section on data collection include: data sources, data at scale (big data), data

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stewardship (FAIR data) and related privacy concerns. Aspects of predictive modelling using techniques such as classification, regression or clustering, and prediction model validation will be covered

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in the second section. The third section covers aspects of (mobile) clinical decision support systems, operational excellence and value-based healthcare.

Fundamentals of Clinical Data Science is an essential

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resource for healthcare professionals and IT consultants intending to develop and refine their skills in personalized medicine, using solutions based on large datasets from electronic health records or

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telemonitoring programmes.
The book's promise is "no
math, no code" and will
explain the topics in a
style that is optimized for
a healthcare audience.
Delve into your data for the
key to success Data mining

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is quickly becoming integral to creating value and business momentum. The ability to detect unseen patterns hidden in the numbers exhaustively generated by day-to-day operations allow savvy

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decision-makers to exploit every tool at their disposal in the pursuit of better business. By creating models and testing whether patterns hold up, it is possible to discover new intelligence that could change your

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business's entire paradigm
for a more successful
outcome. Data Mining for
Dummies shows you why it
doesn't take a data scientist
to gain this advantage, and
empowers average business
people to start shaping a

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process relevant to their business's needs. In this book, you'll learn the hows and whys of mining to the depths of your data, and how to make the case for heavier investment into data mining capabilities.

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The book explains the details of the knowledge discovery process including: Model creation, validity testing, and interpretation Effective communication of findings Available tools, both paid and open-source Data

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selection, transformation, and evaluation Data Mining for Dummies takes you step-by-step through a real-world data-mining project using open-source tools that allow you to get immediate hands-on experience working

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with large amounts of data. You'll gain the confidence you need to start making data mining practices a routine part of your successful business. If you're serious about doing everything you can to push

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your company to the top, Data Mining for Dummies is your ticket to effective data mining.

Transactions on Petri Nets and Other Models of Concurrency (ToPNoC) II
These Transactions publish

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archival papers in the broad area of Petri nets and other models of concurrency, ranging from theoretical work to tool support and industrial applications. ToPNoC issues are published as LNCS volumes, and hence

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are widely distributed and indexed. This Journal has its own Editorial Board which selects papers based on a rigorous two-stage refereeing process. ToPNoC contains: - Revised versions of a selection of the best

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papers from workshops and tutorials at the annual Petri net conferences - Special sections/issues within particular subareas (similar to those published in the Advances in Petri Nets series) - Other papers

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invited for publication in
ToPNoC - Papers submitted
directly to ToPNoC by their
authors The second volume of
ToPNoC focuses on
Concurrency in Process-Aware
Information Systems.
Although the topic of

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business process management using information technology has been addressed by consultants and software developers in depth, more fundamental approaches towards such Process-Aware Information Systems (PAISs)

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have been rather uncommon. It wasn't until the 1990s that researchers started to work on the foundations of PAISs. Clearly, concurrency theory is an essential ingredient in these foundations as business

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processes are highly concurrent involving all types of routing logic and resource allocation mechanisms. The 16 papers in this special issue of ToPNoC cover topics ranging from the formal (mostly Petri-net

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based) foundations of PAISs to more applied topics such as flexibility and process mining. Thus, this volume gives a good overview of the state of the art in PAIS research.

This book provides a

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practically applicable guide to the methodologies and technologies for the application of interactive process mining paradigm. Case studies are presented where this paradigm has been successfully applied in

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emergency medicine, surgery processes, human behavior modelling, strokes and outpatients' services, enabling the reader to develop a deep understanding of how to apply process mining technologies in

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healthcare to support them in inferring new knowledge from past actions, and providing accurate and personalized knowledge to improve their future clinical decision-making. Interactive Process Mining

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in Healthcare
comprehensively covers how
machine learning algorithms
can be utilized to create
real scientific evidence to
improve daily healthcare
protocols, and is a valuable
resource for a variety of

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health professionals seeking to develop new methods to improve their clinical decision-making.

ICPM 2020 International Workshops, Padua, Italy, October 5-8, 2020, Revised Selected Papers

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A Guide to Implementing RPA
Systems
Practical Magic for Crafting
Powerful Work Relationships
Principles, Use Cases and
Outlook
38th International
Conference, PETRI NETS 2017,
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Zaragoza, Spain, June 25-30,
2017, Proceedings
Business Intelligence and
Analytics in Small and
Medium Enterprises
Data Mining, Machine
Learning and Data Science
for Practitioners

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Chandrika Kamath
describes how techniques
from the multi-
disciplinary field of data
mining can be used to
address the modern
problem of data overload

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**in science and
engineering domains.
Starting with a survey of
analysis problems in
different applications, it
identifies the common
themes across these**

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**domains.
Technological
developments in recent
years have been
tremendous. This
evolution is visible in
companies through**

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technological equipment, computerized procedures, and management practices associated with technologies. One of the management practices

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that is visible is related to business intelligence and analytics (BI&A). Concepts such as data warehousing, key performance indicators (KPIs), data mining, and

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dashboards are changing the business arena. This book aims to promote research related to these new trends that open up a new field of research in the small and medium

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enterprises (SMEs) area. Features Focuses on the more recent research findings occurring in the fields of BI&A Conveys how companies in the developed world are

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**facing today's
technological challenges
Shares knowledge and
insights on an
international scale
Provides different options
and strategies to manage**

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**competitive organizations
Addresses several
dimensions of BI&A in
favor of SMEs
With big data analytics
comes big insights into
profitability Big data is**

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big business. But having the data and the computational power to process it isn't nearly enough to produce meaningful results. Big Data, Data Mining, and

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**Machine Learning: Value
Creation for Business
Leaders and Practitioners
is a complete resource for
technology and
marketing executives
looking to cut through**

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**the hype and produce
real results that hit the
bottom line. Providing an
engaging, thorough
overview of the current
state of big data
analytics and the growing**

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trend toward high performance computing architectures, the book is a detail-driven look into how big data analytics can be leveraged to foster positive change

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and drive efficiency. With continued exponential growth in data and ever more competitive markets, businesses must adapt quickly to gain every competitive

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advantage available. Big data analytics can serve as the linchpin for initiatives that drive business, but only if the underlying technology and analysis is fully

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understood and appreciated by engaged stakeholders. This book provides a view into the topic that executives, managers, and practitioners require, and

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**includes: A complete
overview of big data and
its notable characteristics
Details on high
performance computing
architectures for
analytics, massively**

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**parallel processing
(MPP), and in-memory
databases**

**Comprehensive coverage
of data mining, text
analytics, and machine
learning algorithms A**

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**discussion of explanatory
and predictive modeling,
and how they can be
applied to decision-
making processes Big
Data, Data Mining, and
Machine Learning**

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provides technology and marketing executives with the complete resource that has been notably absent from the veritable libraries of published books on the

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topic. Take control of your organization's big data analytics to produce real results with a resource that is comprehensive in scope and light on hyperbole.

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Data Analytics Applied to the Mining Industry describes the key challenges facing the mining sector as it transforms into a digital industry able to fully

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exploit process automation, remote operation centers, autonomous equipment and the opportunities offered by the industrial internet of things. It

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provides guidelines on how data needs to be collected, stored and managed to enable the different advanced data analytics methods to be applied effectively in

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practice, through use of case studies, and worked examples. Aimed at graduate students, researchers, and professionals in the industry of mining

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**engineering, this book:
Explains how to
implement advanced data
analytics through case
studies and examples in
mining engineering
Provides approaches and**

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methods to improve data-driven decision making
Explains a concise overview of the state of the art for Mining Executives and Managers
Highlights and describes

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**critical opportunity areas
for mining optimization
Brings experience and
learning in digital
transformation from
adjacent sectors
Data Science for Business**

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**Value Creation for
Business Leaders and
Practitioners
Conformance Checking
and Diagnosis in Process
Mining**

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**Information Systems
Engineering in Complex
Environments
A Practical Perspective
Business Chemistry**

This book constitutes the proceedings
of the 38th International Conference

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on Application and Theory of Petri Nets and Concurrency, PETRI NETS 2017, held in Zaragoza, Spain, in June 2017. Petri Nets 2017 is co-located with the Application of Concurrency to System Design Conference, ACSD 2017. The 16 papers, 9 theory papers,

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4 application papers, and 3 tool papers, with 1 short abstract and 3 extended abstracts of invited talks presented together in this volume were carefully reviewed and selected from 33 submissions. The focus of the conference is on following topics:

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Simulation of Colored Petri Nets,
Petri Net Tools.- Model Checking,
Liveness and Opacity, Stochastic Petri
Nets, Specific Net Classes, and Petri
Nets for Pathways.

While Robotic Process Automation
(RPA) has been around for about 20

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years, it has hit an inflection point because of the convergence of cloud computing, big data and AI. This book shows you how to leverage RPA effectively in your company to automate repetitive and rules-based processes, such as scheduling,

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inputting/transferring data, cut and paste, filling out forms, and search. Using practical aspects of implementing the technology (based on case studies and industry best practices), you ' ll see how companies have been able to realize

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substantial ROI (Return On Investment) with their implementations, such as by lessening the need for hiring or outsourcing. By understanding the core concepts of RPA, you ' ll also see that the technology significantly increases

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compliance – leading to fewer issues with regulations – and minimizes costly errors. RPA software revenues have recently soared by over 60 percent, which is the fastest ramp in the tech industry, and they are expected to exceed \$1 billion by the

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end of 2019. It is generally seamless with legacy IT environments, making it easier for companies to pursue a strategy of digital transformation and can even be a gateway to AI. The Robotic Process Automation Handbook puts everything you need

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to know into one place to be a part of
this wave. What You'll Learn Develop
the right strategy and plan Deal with
resistance and fears from
employees Take an in-depth look at
the leading RPA systems, including
where they are most effective, the risks

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and the costs Evaluate an RPA system

Who This Book Is For IT specialists
and managers at mid-to-large
companies

Addresses the impacts of data mining
on education and reviews applications
in educational research teaching, and

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learning This book discusses the insights, challenges, issues, expectations, and practical implementation of data mining (DM) within educational mandates. Initial series of chapters offer a general overview of DM, Learning Analytics

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(LA), and data collection models in the context of educational research, while also defining and discussing data mining ' s four guiding principles— prediction, clustering, rule association, and outlier detection. The next series of chapters showcase

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the pedagogical applications of Educational Data Mining (EDM) and feature case studies drawn from Business, Humanities, Health Sciences, Linguistics, and Physical Sciences education that serve to highlight the successes and some of

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the limitations of data mining research applications in educational settings.

The remaining chapters focus exclusively on EDM ' s emerging role in helping to advance educational research—from identifying at-risk students and closing socioeconomic

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gaps in achievement to aiding in teacher evaluation and facilitating peer conferencing. This book features contributions from international experts in a variety of fields. Includes case studies where data mining techniques have been effectively

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applied to advance teaching and learning Addresses applications of data mining in educational research, including: social networking and education; policy and legislation in the classroom; and identification of at-risk students Explores Massive Open

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Online Courses (MOOCs) to study the effectiveness of online networks in promoting learning and understanding the communication patterns among users and students
Features supplementary resources including a primer on foundational

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aspects of educational mining and learning analytics Data Mining and Learning Analytics: Applications in Educational Research is written for both scientists in EDM and educators interested in using and integrating DM and LA to improve education

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and advance educational research. Written by renowned data science experts Foster Provost and Tom Fawcett, *Data Science for Business* introduces the fundamental principles of data science, and walks you through the "data-analytic thinking"

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necessary for extracting useful knowledge and business value from the data you collect. This guide also helps you understand the many data-mining techniques in use today. Based on an MBA course Provost has taught at New York University over the past

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ten years, Data Science for Business provides examples of real-world business problems to illustrate these principles. You ' ll not only learn how to improve communication between business stakeholders and data scientists, but also how

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participate intelligently in your company ' s data science projects. You ' ll also discover how to think data-analytically, and fully appreciate how data science methods can support business decision-making. Understand how data science fits in

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your organization—and how you can use it for competitive advantage Treat data as a business asset that requires careful investment if you 're to gain real value Approach business problems data-analytically, using the data-mining process to gather good

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data in the most appropriate way

Learn general concepts for actually
extracting knowledge from data

Apply data science principles when
interviewing data science job
candidates

Application and Theory of Petri Nets

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and Concurrency

Models, Methods, and Systems

A Primer on Process Mining

Practical Process Automation

Discovery, Conformance and

Enhancement of Business Processes

Conformance Checking

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Predictive Analytics

An introduction to the modeling of business information systems, with processes formally modeled using Petri nets. This comprehensive introduction to modeling business-information systems focuses on

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business processes. It describes and demonstrates the formal modeling of processes in terms of Petri nets, using a well-established theory for capturing and analyzing models with concurrency. The precise semantics of this formal method

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offers a distinct advantage for modeling processes over the industrial modeling languages found in other books on the subject. Moreover, the simplicity and expressiveness of the Petri nets concept make it an ideal language

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for explaining foundational concepts and constructing exercises. After an overview of business information systems, the book introduces the modeling of processes in terms of classical Petri nets. This is then extended with

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data, time, and hierarchy to model all aspects of a process. Finally, the book explores analysis of Petri net models to detect design flaws and errors in the design process. The text, accessible to a broad audience of professionals and students, keeps

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technicalities to a minimum and offers numerous examples to illustrate the concepts covered. Exercises at different levels of difficulty make the book ideal for independent study or classroom use. This volume contains the papers

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*presented at the 5th International
Conference on Discovery Science
(DS 2002) held at the Mövenpick
Hotel, Lübeck, Germany, November
24-26, 2002. The conference was
supported by CorpoBase, DFKI
GmbH, and JessenLenz. The*

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*conference was collocated with the 13th International Conference on -
gorithmic Learning Theory (ALT
2002). Both conferences were held
in parallel and shared?ve invited
talks as well as all social events.*

The combination of ALT 2002 and

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DS 2002 allowed for a comprehensive treatment of recent developments in computational learning theory and machine learning - some of the cornerstones of discovery science. In response to the call for papers 76 submissions

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were received. The program committee selected 17 submissions as regular papers and 29 submissions as poster presentations of which 27 have been submitted for publication. This selection was based on clarity, significance, and

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originality, as well as on relevance to the rapidly evolving field of discovery science.

Now in its second edition, this book focuses on practical algorithms for mining data from even the largest datasets.

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***DATA MINING AND MACHINE
LEARNING APPLICATIONS*** *The
book elaborates in detail on the
current needs of data mining and
machine learning and promotes
mutual understanding among
research in different disciplines,*

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thus facilitating research development and collaboration. Data, the latest currency of today's world, is the new gold. In this new form of gold, the most beautiful jewels are data analytics and machine learning. Data mining and

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machine learning are considered interdisciplinary fields. Data mining is a subset of data analytics and machine learning involves the use of algorithms that automatically improve through experience based on data. Massive

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datasets can be classified and clustered to obtain accurate results. The most common technologies used include classification and clustering methods. Accuracy and error rates are calculated for regression and classification and

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clustering to find actual results through algorithms like support vector machines and neural networks with forward and backward propagation.

Applications include fraud detection, image processing,

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medical diagnosis, weather prediction, e-commerce and so forth. The book features: A review of the state-of-the-art in data mining and machine learning, A review and description of the learning methods in human-

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*computer interaction,
Implementation strategies and
future research directions used to
meet the design and application
requirements of several modern and
real-time applications for a long
time, The scope and implementation*

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of a majority of data mining and machine learning strategies. A discussion of real-time problems. Audience Industry and academic researchers, scientists, and engineers in information technology, data science and

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machine and deep learning, as well as artificial intelligence more broadly.

Practical Skills with Python and Graphviz

Big Data, Data Mining, and Machine Learning

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*CAiSE Forum 2014, Thessaloniki,
Greece, June 16-20, 2014, Selected
Extended Papers*

*Special Issue on Concurrency in
Process-Aware Information Systems
Fundamentals of Clinical Data
Science*

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*Business Process Management
Workshops*

Data Science in Action

This book introduces readers to the field of conformance checking as a whole and outlines the

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fundamental relation
between modelled and
recorded behaviour.
Conformance checking
interrelates the
modelled and recorded
behaviour of a given

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process and provides techniques and methods for comparing and analysing observed instances of a process in the presence of a model, independent of

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the model's origin. Its goal is to provide an overview of the essential techniques and methods in this field at an intuitive level, together with precise

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formalisations of its underlying principles. The book is divided into three parts, that are meant to cover different perspectives of the field of conformance

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checking. Part I presents a comprehensive yet accessible overview of the essential concepts used to interrelate modelled and recorded behaviour. It

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also serves as a reference for assessing how conformance checking efforts could be applied in specific domains. Next, Part II provides readers with detailed

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insights into algorithms
for conformance
checking, including the
most commonly used
formal notions and their
instantiation for
specific analysis

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questions. Lastly, Part III highlights applications that help to make sense of conformance checking results, thereby providing a necessary

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next step to increase the value of a given process model. They help to interpret the outcomes of conformance checking and incorporate them by means of

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enhancement and repair techniques. Providing the core building blocks of conformance checking and describing its main applications, this book mainly addresses

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students specializing in business process management, researchers entering process mining and conformance checking for the first time, and advanced professionals

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whose work involves
process evaluation,
modelling and
optimization.

In Predictive Analytics:
Data Mining, Machine
Learning and Data

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Science for
Practitioners, Dr.
Dursun Delen illuminates
state-of-the-art best
practices for predictive
analytics for students.
Using predictive

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analytics techniques, students can uncover hidden patterns and correlations in their data, and leverage this insight to improve a wide range of business

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decisions. Delen's
holistic approach covers
all this, and more: Data
mining processes,
methods, and techniques
The role and management
of data Predictive

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analytics tools and
metrics Techniques for
text and web mining, and
for sentiment analysis
Integration with cutting-
edge Big Data approaches
Throughout, Delen

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promotes understanding
by presenting numerous
conceptual
illustrations,
motivational success
stories, failed projects
that teach important

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lessons, and simple, hands-on tutorials that set this guide apart from competitors.

This is the second edition of Wil van der Aalst's seminal book on

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process mining, which now discusses the field also in the broader context of data science and big data approaches. It includes several additions and updates,

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e.g. on inductive mining techniques, the notion of alignments, a considerably expanded section on software tools and a completely new chapter of process

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mining in the large. It is self-contained, while at the same time covering the entire process-mining spectrum from process discovery to predictive analytics.

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After a general introduction to data science and process mining in Part I, Part II provides the basics of business process modeling and data mining

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necessary to understand the remainder of the book. Next, Part III focuses on process discovery as the most important process mining task, while Part IV

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moves beyond discovering the control flow of processes, highlighting conformance checking, and organizational and time perspectives. Part V offers a guide to

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successfully applying process mining in practice, including an introduction to the widely used open-source tool ProM and several commercial products.

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Lastly, Part VI takes a step back, reflecting on the material presented and the key open challenges. Overall, this book provides a comprehensive overview

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of the state of the art
in process mining. It is
intended for business
process analysts,
business consultants,
process managers,
graduate students, and

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BPM researchers.
In today's IT
architectures,
microservices and
serverless functions
play increasingly
important roles in

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process automation. But
how do you create
meaningful,
comprehensive, and
connected business
solutions when the
individual components

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are decoupled and independent by design? Targeted at developers and architects, this book presents a framework through examples, practical

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advice, and use cases to help you design and automate complex processes. As systems are more distributed, asynchronous, and reactive, process

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automation requires state handling to deal with long-running interactions. Author Bernd Ruecker demonstrates how to leverage process

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automation technology like workflow engines to orchestrate software, humans, decisions, or bots. Learn how modern process automation compares to business

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process management,
service-oriented
architecture, batch
processing, event
streaming, and data
pipeline solutions
Understand how to use

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workflow engines and
executable process
models with BPMN
Understand the
difference between
orchestration and
choreography and how to

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balance both
Modeling Business
Processes
Mining of Massive
Datasets
Process Mining in Action
Data Mining and Machine

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Learning Applications
Evaluating and
Exploiting Operational
Healthcare Processes
Data Analytics Applied
to the Mining Industry
Optimizing Student

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Engagement in Online
Learning Environments

The main goal of this book is to explain the core ideas of process mining, and to demonstrate how they can be implemented using just

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some basic tools that are available to any computer scientist or data scientist. It describes how to analyze event logs in order to discover the behavior of real-world business processes.

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The end result can often be visualized as a graph, and the book explains how to use Python and Graphviz to render these graphs intuitively. Overall, it enables the reader to implement

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process mining techniques on his or her own, independently of any specific process mining tool. An introduction to two popular process mining tools, namely Disco and ProM, is also

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provided. The book will be especially valuable for self-study or as a precursor to a more advanced text.

Practitioners and students will be able to follow along on their own, even if they

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have no prior knowledge of the topic. After reading this book, they will be able to more confidently proceed to the research literature if needed.

After a brief presentation of

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the state of the art of process-mining techniques, Andrea Burratin proposes different scenarios for the deployment of process-mining projects, and in particular a characterization

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of companies in terms of their process awareness. The approaches proposed in this book belong to two different computational paradigms: first to classic "batch process mining," and second to more

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recent "online process mining." The book encompasses a revised version of the author's PhD thesis, which won the "Best Process Mining Dissertation Award" in 2014, awarded by

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the IEEE Task Force on
Process Mining.

What are the possibilities for
process mining in hospitals?
In this book the authors
provide an answer to this
question by presenting a

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healthcare reference model that outlines all the different classes of data that are potentially available for process mining in healthcare and the relationships between them.

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Subsequently, based on this reference model, they explain the application opportunities for process mining in this domain and discuss the various kinds of analyses that can be

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performed. They focus on organizational healthcare processes rather than medical treatment processes. The combination of event data and process mining techniques allows

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them to analyze the operational processes within a hospital based on facts, thus providing a solid basis for managing and improving processes within hospitals. To this end, they also

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explicitly elaborate on data quality issues that are relevant for the data aspects of the healthcare reference model. This book mainly targets advanced professionals involved in

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areas related to business process management, business intelligence, data mining, and business process redesign for healthcare systems as well as graduate students

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specializing in healthcare information systems and process analysis.

This book contains the best papers of the First International Joint Conference on B- medical

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Engineering Systems and Technologies (BIOSTEC 2008), organized by the Institute for Systems and Technologies of Information Control and Communication (INSTICC), technically co-

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sponsored by the IEEE
Engineering in Medicine and
Bi- ogy Society (EMB), ACM
SIGART and the Workflow
Management Coalition
(WfMC), in cooperation with
AAAI. The purpose of the

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International Joint
Conference on Biomedical
Engineering Systems and
Technologies is to bring
together researchers and
practitioners, including
engineers, biologists, health

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professionals and
informatics/computer
scientists, interested in both
theoretical advances and
applications of information
systems, artificial
intelligence, signal

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processing, electronics and other engineering tools in knowledge areas related to biology and medicine.

BIOSTEC is composed of three co-located conferences; each

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specializes in one of the
aforementioned main
knowledge areas, namely: •
BIODEVICES (International
Conference on Biomedical
Electronics and - vices)
focuses on aspects related to

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electronics and mechanical engineering, - pecially equipment and materials inspired from biological systems and/or - dressing biological requirements. Monitoring devices,

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instrumentation sensors and systems, biorobotics, micro-nanotechnologies and biomaterials are some of the technologies addressed at this conference.

International Joint

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Conference, BIOSTEC 2008
Funchal, Madeira, Portugal,
January 28-31, 2008,
Revised Selected Papers
A Petri Net-Oriented
Approach
The Robotic Process

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Automation Handbook
Applications in Educational
Research

Workflow Management

***Process mining techniques
can be used to discover,
analyze and improve real***

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processes, by extracting models from observed behavior. The aim of this book is conformance checking, one of the main areas of process mining. In conformance checking,

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existing process models are compared with actual observations of the process in order to assess their quality. Conformance checking techniques are a way to visualize the

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***differences between
assumed process
represented in the model
and the real process in the
event log, pinpointing
possible problems to
address, and the business***

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process management results that rely on these models. This book combines both application and research perspectives. It provides concrete use cases that illustrate the problems

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addressed by the techniques in the book, but at the same time, it contains complete conceptualization and formalization of the problem and the techniques, and through evaluations on the

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quality and the performance of the proposed techniques. Hence, this book brings the opportunity for business analysts willing to improve their organization processes, and also data

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scientists interested on the topic of process-oriented data science.

The main goal of this book is to explain the core ideas of process mining, and to demonstrate how they can

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be implemented using just some basic tools that are available to any computer scientist or data scientist. It describes how to analyze event logs in order to discover the behavior of real-

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world business processes. The end result can often be visualized as a graph, and the book explains how to use Python and Graphviz to render these graphs intuitively. Overall, it

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***enables the reader to
implement process mining
techniques on his or her
own, independently of any
specific process mining tool.
An introduction to two
popular process mining***

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tools, namely Disco and ProM, is also provided. In this second edition the code snippets have been updated to Python 3, and some smaller errors have been corrected. The book will be

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especially valuable for self-study or as a precursor to a more advanced text.

Practitioners and students will be able to follow along on their own, even if they have no prior knowledge of

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the topic. After reading this book, they will be able to more confidently proceed to the research literature if needed.