

Seyed-Mehdi-Reza Beheshti · Boualem Benatallah
Sherif Sakr · Daniela Grigori
Hamid Reza Motahari-Nezhad · Moshe Chai Barukh
Ahmed Gater · Seung Hwan Ryu

Process Analytics

Concepts and Techniques for Querying
and Analyzing Process Data



Springer

Process Analytics Concepts And Techniques For Querying And Analyzing Process Data

**Amin Beheshti, Mustafa Hashmi, Hai
Dong, Wei Emma Zhang**



Process Analytics Concepts And Techniques For Querying And Analyzing Process Data:

Process Analytics Seyed-Mehdi-Reza Beheshti, Boualem Benatallah, Sherif Sakr, Daniela Grigori, Hamid Reza Motahari-Nezhad, Moshe Chai Barukh, Ahmed Gater, Seung Hwan Ryu, 2016-03-28 This book starts with an introduction to process modeling and process paradigms then explains how to query and analyze process models and how to analyze the process execution data In this way readers receive a comprehensive overview of what is needed to identify understand and improve business processes The book chiefly focuses on concepts techniques and methods It covers a large body of knowledge on process analytics including process data querying analysis matching and correlating process data and models to help practitioners and researchers understand the underlying concepts problems methods tools and techniques involved in modern process analytics Following an introduction to basic business process and process analytics concepts it describes the state of the art in this area before examining different analytics techniques in detail In this regard the book covers analytics over different levels of process abstractions from process execution data and methods for linking and correlating process execution data to inferring process models querying process execution data and process models and scalable process data analytics methods In addition it provides a review of commercial process analytics tools and their practical applications The book is intended for a broad readership interested in business process management and process analytics It provides researchers with an introduction to these fields by comprehensively classifying the current state of research by describing in depth techniques and methods and by highlighting future research directions Lecturers will find a wealth of material to choose from for a variety of courses ranging from undergraduate courses in business process management to graduate courses in business process analytics Lastly it offers professionals a reference guide to the state of the art in commercial tools and techniques complemented by many real world use case scenarios

Process Querying Methods Artem Polyvyanyy, 2022-04-25 This book presents a framework for developing as well as a comprehensive collection of state of the art process querying methods Process querying combines concepts from Big Data and Process Modeling and Analysis with Business Process Intelligence and Process Analytics to study techniques for retrieving and manipulating models of real world and envisioned processes to organize and extract process related information for subsequent systematic use The book comprises sixteen contributed chapters distributed over four parts and two auxiliary chapters The auxiliary chapters by the editor provide an introduction to the area of process querying and a summary of the presented methods techniques and applications for process querying The introductory chapter also examines a process querying framework The contributed chapters present various process querying methods including discussions on how they instantiate the framework components thus supporting the comparison of the methods The four parts are due to the distinctive features of the methods they include The first three are devoted to querying event logs generated by IT systems that support business processes at organizations querying process designs captured in process models and methods that address querying both event logs and process models

The methods in these three parts usually define a language for specifying process queries. The fourth part discusses methods that operate over inputs other than event logs and process models e.g. streams of process events or do not develop dedicated languages for specifying queries e.g. methods for assessing process model similarity. This book is mainly intended for researchers. All the chapters in this book are contributed by active researchers in the research disciplines of business process management, process mining and process querying. They describe state of the art methods for process querying, discuss use cases of process querying and suggest directions for future work for advancing the field. Yet also other groups like business or data scientists and other professionals, lecturers, graduate students and tool vendors will find relevant information for their distinctive needs.

Chapter: Celonis PQL: A Query Language for Process Mining is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com

Service Research and Innovation Ho-Pun Lam, Sajib Mistry, 2019-10-05. This book constitutes revised selected papers from the Australasian Symposium on Service Research and Innovation ASSRI 2018. The conference was held in two parts on September 6, 2018 in Sydney, Australia and on December 14, 2018 in Wollongong, Australia. The 9 full and 2 short papers included in this volume were carefully reviewed and selected from a total of 26 submissions covering a variety of topics related to service-oriented computing and service science. The book also includes 3 keynote papers.

Service Research and Innovation Amin Beheshti, Mustafa Hashmi, Hai Dong, Wei Emma Zhang, 2018-03-02. This book constitutes revised selected papers from the Australasian Symposium on Service Research and Innovation ASSRI held in Sydney, Australia. The 11 full papers presented from ASSRI 2017 which took place during October 19–20, 2017 were carefully reviewed and selected from 26 submissions. The volume also contains 3 papers from ASSRI 2015 which took place during November 2–3, 2015 and one invited paper on the software development processes. The papers were organized in topical sections named: invited talk, modelling, design, quality, social and application.

Process Mining Handbook Wil M. P. van der Aalst, Josep Carmona, 2022-06-27. This is an open access book. This book comprises all the single courses given as part of the First Summer School on Process Mining PMSS 2022 which was held in Aachen, Germany during July 4–8, 2022. This volume contains 17 chapters organized into the following topical sections: Introduction, process discovery, conformance checking, data preprocessing, process enhancement and monitoring, assorted process mining topics, industrial perspective and applications and closing.

Social Data Analytics Amin Beheshti, Samira Ghodrathnama, Mehdi Elahi, Helia Farhood, 2022-08-01. This book is an introduction to social data analytics along with its challenges and opportunities in the age of Big Data and Artificial Intelligence. It focuses primarily on concepts, techniques and methods for organizing, curating, processing, analyzing and visualizing big social data from text to image and video analytics. It provides novel techniques in storytelling with social data to facilitate the knowledge and fact discovery. The book covers a large body of knowledge that will help practitioners and researchers in understanding the underlying concepts, problems, methods, tools and techniques involved in modern social data analytics. It also provides real-world applications of social data analytics including Sales and

Marketing Influence Maximization Situational Awareness customer success and Segmentation and performance analysis of the industry It provides a deep knowledge in social data analytics by comprehensively classifying the current state of research by describing in depth techniques and methods and by highlighting future research directions Lecturers will find a wealth of material to choose from for a variety of courses ranging from undergraduate courses in data science to graduate courses in data analytics

Service-Oriented Computing - ICSOC 2018 Workshops Xiao Liu, Michael Mrissa, Liang Zhang, Djamel Benslimane, Aditya Ghose, Zhongjie Wang, Antonio Bucchiarone, Wei Zhang, Ying Zou, Qi Yu, 2019-04-09 This book constitutes the revised selected papers of the scientific satellite events that were held in conjunction with the 16th International Conference on Service Oriented Computing ICSOC 2018 held in Hangzhou China in November 2018 The ICSOC 2018 workshop track consisted of six workshops on a wide range of topics that fall into the general area of service computing A special focus this year was on Internet of Things Data Analytics and Smart Services First International Workshop on Data Driven Business Services DDBS First International Workshop on Networked Learning Systems for Secured IoT Services and Its Applications NLS4IoT 8th International Workshop on Context Aware and IoT Services CIoTS Third International Workshop on Adaptive Service oriented and Cloud Applications ASOCA2018 Third International Workshop on IoT Systems for Context aware Computing ISyCC First International Workshop on AI and Data Mining for Services ADMS

Service-Oriented Computing - ICSOC 2021 Workshops Hakim Hacid, Monther Aldwairi, Mohamed Reda Bouadjenek, Marinella Petrocchi, Noura Faci, Fatma Outay, Amin Beheshti, Lauritz Thamsen, Hai Dong, 2022-08-23 This book constitutes the selected papers from the scientific satellite events held in conjunction with the 19th International Conference on Service Oriented Computing ICSOC 2021 The conference was held Dubai United Arab Emirates in November 2021 This year these satellite events were organized around three main tracks including a workshop track a demonstration track and a tutorials track The ICSOC 2021 workshop track consisted of the following three workshops covering a wide range of topics that fall into the general area of service computing International Workshop on Artificial Intelligence for IT Operations AIOps 3rd Workshop on Smart Data Integration and Processing STRAPS 2021 International Workshop on AI enabled Process Automation AI PA 2021

Web Information Systems Engineering Leong Hou U, Jian Yang, Yi Cai, Kamalakara Karlapalem, An Liu, Xin Huang, 2020-02-05 This book constitutes the refereed proceedings presented on the 20th International Conference on Web Information Systems Engineering WISE 2019 and on The International Workshop on Web Information Systems in the Era of AI held in Hong Kong and Macau China Due to the problems in Hong Kong WISE 2019 has been postponed until January 2020 The 7 workshop papers 5 demo papers and 3 tutorial papers presented were carefully reviewed and selected from numerous submissions The papers are organized in the following sections tutorials demos the International Workshop on Web Information Systems in the Era of AI

Web Information Systems Engineering - WISE 2018 Hakim Hacid, Wojciech Cellary, Hua Wang, Hye-Young Paik, Rui Zhou, 2018-10-19 The two volume set LNCS 11233 and LNCS 11234

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