

Auditing 2 Process Mining

Process Mining
 Contemporary Issues in Audit Management and Forensic Accounting
 The New Digital Era
 Process Mining Workshops
 The Routledge Companion to Accounting Information Systems
 Business Process Management
 Service-Oriented Computing - ICSOC 2011 Workshops
 Business Process Management Forum
 Information Management and Machine Intelligence
 Service-Oriented Computing
 DHealth 2023
 Trends and Applications in Software Engineering
 Advanced Informatics for Computing Research
 Evaluation of Novel Approaches to Software Engineering
 BPM Everywhere
 Information Management and Machine Intelligence
 Guide to Audit Data Analytics
 Business Process Management Workshops
 Communication Systems and Information Technology
 From Software Engineering to Formal Methods and Tools, and Back
 Advanced Digital Auditing
 Business Intelligence
 Process Mining
 Digital Healthcare Empowering Europeans
 Process Mining and Network Protocols
 Information and Software Technologies
 Process Mining Workshops
 Continuous Auditing
 Mobile, Secure, and Programmable Networking
 Process Mining in Healthcare
 Business Process Management Cases
 Data and Analytics in Accounting
 Accounting Information Systems
 Audit Analytics in the Financial Industry
 Process Mining in Action
 Design Science at the Intersection of Physical and Virtual Design
 Process Mining Techniques for Managing and Improving Healthcare Systems
 Conformance Checking and Diagnosis in Process Mining
 Process Mining Handbook
 Process Mining Workshops

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Process Mining Springer

Split into six parts, contributors explore ways to integrate Audit Analytics techniques into existing audit programs for the financial industry. Chapters include topics such as fraud risks in the credit card sector, clustering techniques, fraud and anomaly detection, and using Audit Analytics to assess risk in the lawsuit and payment processes.

Contemporary Issues in Audit Management and Forensic Accounting Springer Nature

This book discusses a new process mining method along with a detailed comparison between different techniques that provide a complete vision of the process of data acquisition, data analysis, and data prediction. Process Mining Techniques for Managing and Improving Healthcare Systems offers a new framework for process learning which is probabilistic and enables the process to be learned in an accumulative manner. The steps of prediction modeling and building the required knowledge are highlighted throughout the book, along with a strong emphasis on the correlation between the healthcare domain and technology including the different aspects, such as: managing records, information, and procedures; early detection of diseases; and the improvement of accuracy in choosing the right treatment procedures. This reference provides a wealth of knowledge for practitioners, researchers, and students at the basic and intermediary levels working within the healthcare system, computer science, electronics and communications, as well as medical providers and also hospital management entities.

The New Digital Era Springer

Digital technologies have become an integral part of all our lives, and the area of healthcare is no exception. This book presents the proceedings of the 17th annual conference on Health Informatics meets Digital Health (dHealth 2023), held in Vienna, Austria, on 16 and 17 May 2023. The conference series provides a forum for researchers and decision makers, health professionals, healthcare providers, and government and industry representatives to present and discuss innovative digital-health solutions with the aim of improving the quality and efficiency of healthcare using digital technologies. The 'd' in dHealth encompasses concepts such as digitalization, datafication and data-driven decision making, as well as predictive modeling and "deep" health for better patient outcomes and sustainability in healthcare, and the 47 papers included here offer an insight into state-of-the-art aspects of dHealth, including the design and evaluation of user interfaces, patient-centered solutions, electronic health/medical/patient records, telemedical approaches and solutions, predictive models, machine learning in healthcare and biomedical data analytics. The book provides an interdisciplinary overview of current research activities in digital health, and will be of interest to all those working in the field.

Process Mining Workshops Emerald Group Publishing

This book constitutes the refereed proceedings of the 27th International Conference on Information and Software Technologies, ICIST 2021, held in Kaunas, Lithuania, in October 2021. The 24 full papers and 6 short papers presented were carefully reviewed and selected from 79 submissions. The papers discuss such topics as business intelligence for information and software systems, intelligent methods for data analysis and computer aided software engineering, information technology applications, smart e-learning technologies and applications, language technologies.

The Routledge Companion to Accounting Information Systems Springer Nature

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.

Business Process Management Springer Science & Business Media

Process mining techniques can be used to discover, analyze and improve real 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, 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 differences between assumed process represented in the model and the real process in the event log, pinpointing possible problems to address, and the business 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 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 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 scientists interested on the topic of process-oriented data science.

Service-Oriented Computing - ICSOC 2011 Workshops Springer Nature

This book is the first to present a rich selection of over 30 real-world cases of how leading organizations conduct Business Process Management (BPM). The cases stem from a diverse set of industry sectors and countries on different continents, reporting on best practices and lessons learned. The book showcases how BPM can contribute to both exploitation and exploration in a digital world. All cases are presented using a uniform structure in order to provide valuable insights and essential guidance for students and practitioners.

Business Process Management Forum Emerald Group Publishing

We are entering an entirely new phase of BPM – the era of “BPM Everywhere” or BPME. BPME represents the strategy for leveraging, not simply surviving but fully exploiting the wave of disruption facing every business over the next 5 years and beyond. Without question, one of the single most disruptive events in the last decade was the introduction of the smartphone. Consider for a moment how great of an impact this has had on the relationship between businesses and their customers. Not even the emergence of the Web and Internet-based “digital native” business models can compare with the level of intimacy now available with your customers. In the era of the Internet of Things where smart homes, appliances, cars, phones, virtually imaginable devices are all connected, BPM must, and will, be everywhere. As Peter Whibley discusses in “The Internet of Things Will Be Invisible,” by 2025 there are expected to be more than 26 billion or more connected devices. In the chapter “Digital Prescriptive Maintenance: Disrupting Manufacturing through IoT, Big Data, and Dynamic Case Management,” Dr. Setrag Khoshafian introduces the “4 Vs” of “thing” data, specifically “Volume, Velocity, Variety and Value.” From monitors and remote sensors, to appliances and vehicles, to tens of billions of other “things,” connected devices are generating meaningful and informative data that would easily overwhelm any human being, but collectively they present critical context about processes and the state of operations. “Big Data” has never been so large, nor presented such an acute role within enterprises and the processes that drive them. BPME as well as traditional BPM methods can already be found at the center of this. Its role will grow exponentially. Emergent factors such as process mining (see chapter “Mining the Swarm” by Keith Swenson, et al.) will be critical for uncovering engagement patterns and the need for process management platforms to coordinate interaction and control of smart devices. It is intelligent BPM that is expanding the window of what can be automated, by enabling adaptable automation. The mobile strategies in far too many organizations seem to be the building of apps that presume that customers will use their smartphones like mini laptops. This avoids the fact that we now have a level of intimacy with our customer we've never had before. As discussed in the chapter “BPM to Go – Supporting Business

Processes in a Mobile and Sensing World,” our customers are carrying around a device that offers a range of capabilities unlike any laptop. A smartphone produces volumes of meaningful data about our customers (think about the “4Vs”) and is able to interact with that customer in ways that a laptop never can. The growing ubiquity of connectivity always within reach combined with new services and capabilities such as mobile banking is a key part of driving constantly-changing expectations. Yet digital disruption is not limited to mobile devices, and is in fact disrupting everywhere BPM is otherwise found, and why BPM everywhere is becoming the new normal.

Information Management and Machine Intelligence Springer Nature

This book features selected papers presented at the International Conference on Information Management and Machine Intelligence (ICIMMI 2019), held at the Poornima Institute of Engineering & Technology, Jaipur, Rajasthan, India, on December 14-15, 2019. It covers a range of topics, including data analytics; AI; machine and deep learning; information management, security, processing techniques and interpretation; applications of artificial intelligence in soft computing and pattern recognition; cloud-based applications for machine learning; application of IoT in power distribution systems; as well as wireless sensor networks and adaptive wireless communication.

Service-Oriented Computing Routledge

LNBIP 99 and LNBIP 100 together constitute the thoroughly refereed proceedings of 12 international workshops held in Clermont-Ferrand, France, in conjunction with the 9th International Conference on Business Process Management, BPM 2011, in August 2011. The 12 workshops focused on Business Process Design (BPD 2011), Business Process Intelligence (BPI 2011), Business Process Management and Social Software (BPMS2 2011), Cross-Enterprise Collaboration (CEC 2011), Empirical Research in Business Process Management (ER-BPM 2011), Event-Driven Business Process Management (edBPM 2011), Process Model Collections (PMC 2011), Process-Aware Logistics Systems (PALS 2011), Process-Oriented Systems in Healthcare (ProHealth 2011), Reuse in Business Process Management (rBPM 2011), Traceability and Compliance of Semi-Structured Processes (TC4SP 2011), and Workflow Security Audit and Certification (WfSAC 2011). In addition, the proceedings also include the Process Mining Manifesto (as an Open Access Paper), which has been jointly developed by more than 70 scientists, consultants, software vendors, and end-users. LNBIP 99 contains the revised and extended papers from BPD 2011, BPI 2011 (including the Process Mining Manifesto), BPMS2 2011, CEC 2011, ER-BPM 2011, and edBPM 2011.

DHealth 2023 Future Strategies Inc.

This volume was published in honor of Stefania Gnesi’s 65th birthday. The Festschrift volume contains 32 papers written by close collaborators and friends of Stefania and was presented to her on October 8, 2019 one-day colloquium held in Porto, Portugal. The Festschrift consists of eight sections, seven of which reflect the main research areas to which Stefania has contributed.

Following a survey of Stefania’s legacy in research and a homage by her thesis supervisor, these seven sections are ordered according to Stefania’s life cycle in research, from software engineering to formal methods and tools, and back: Software Engineering; Formal Methods and Tools; Requirements Engineering; Natural Language Processing; Software Product Lines; Formal Verification; and Applications.

Trends and Applications in Software Engineering Springer

This book constitutes revised selected papers from the 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 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 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 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 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 International Workshop on Trust and Privacy in Process Analytics (TPPA)

Advanced Informatics for Computing Research IOS Press

This book constitutes the thoroughly refereed proceedings of the 2011 ICSOC Workshops consisting of 5 scientific satellite events, organized in 4 tracks: workshop track (WESOA 2011; NFPSLAM-SOC 2011), PhD symposium track, demonstration track, and industry track; held in conjunction with the 2011 International Conference on Service-Oriented Computing (ICSOC), in Paphos, Greece, December 2011. The 39 revised papers presented together with 2 introductory descriptions address topics such as software engineering services; the management of service level agreements; Web services and service composition; general or domain-specific challenges of service-oriented computing and its transition towards cloud computing; architecture and modeling of services; workflow management; performance analysis as well as crowdsourcing for improving service processes and for knowledge discovery.

Evaluation of Novel Approaches to Software Engineering Springer

This book constitutes the thoroughly refereed post-conference proceedings of the 6th International Conference on Mobile, Secure and Programmable Networking, held in Paris, France, in October 2020. The 16 full papers presented in this volume were carefully reviewed and selected from 31 submissions. They discuss new trends in networking infrastructures, security, services and applications while focusing on virtualization and cloud computing for networks, network

programming, software defined networks (SDN) and their security.

BPM Everywhere CRC Press

This book constitutes the refereed proceedings of the 4th International Conference on Business Process Management, BPM 2006. The book presents 20 revised full papers, 5 industrial papers, and 15 short papers together with an invited paper and the abstract of an invited talk. The papers are organized in topical sections on monitoring and mining, service composition, process models and languages, dynamic process management, Web service composition, and applied business process management.

Information Management and Machine Intelligence Springer

This open access book constitutes revised selected papers from the International Workshops held at the Third International Conference on Process Mining, ICPM 2021, which took place in Eindhoven, The Netherlands, during October 31-November 4, 2021. The conference focuses on the area of process mining research and practice, including theory, algorithmic challenges, and applications. The co-located workshops provided a forum for novel research ideas. The 28 papers included in this volume were carefully reviewed and selected from 65 submissions. They stem from the following workshops: 2nd International Workshop on Event Data and Behavioral Analytics (EDBA) 2nd International Workshop on Leveraging Machine Learning in Process Mining (ML4PM) 2nd International Workshop on Streaming Analytics for Process Mining (SA4PM) 6th International Workshop on Process Querying, Manipulation, and Intelligence (PQMI) 4th International Workshop on Process-Oriented Data Science for Healthcare (PODS4H) 2nd International Workshop on Trust, Privacy, and Security in Process Analytics (TPSA) One survey paper on the results of the XES 2.0 Workshop is included.

Guide to Audit Data Analytics Springer

Information technology has permeated all walks of life in the past two decades. Accounting is no exception. Be it financial accounting, management accounting, or audit, information technology and systems have simplified daily tasks and routine work, simplified reporting, and changed how accounting is done. The Routledge Companion to Accounting Information Systems provides a prestige reference work which offers students and researchers an introduction to current and emerging scholarship in the discipline. Contributions from an international cast of authors provides a balanced view of both the technical underpinnings and organisational consequences of accounting information systems. With a focus on the business consequences of technology, this unique reference book will be a vital resource for students and researchers involved in accounting and information management.

Business Process Management Workshops Springer Nature

To large organizations, business intelligence (BI) promises the capability of collecting and analyzing internal and external data to generate knowledge and value, thus providing decision support at the strategic, tactical, and operational levels. BI is now impacted by the “Big Data” phenomena and the evolution of society and users. In particular, BI applications must cope with additional heterogeneous (often Web-based) sources, e.g., from social networks, blogs, competitors’, suppliers’, or distributors’ data, governmental or NGO-based analysis and papers, or from research publications. In addition, they must be able to provide their results also on mobile devices, taking into account location-based or time-based environmental data. The lectures held at the Third European Business Intelligence Summer School (eBISS), which are presented here in an extended and refined format, cover not only established BI and BPM technologies, but extend into innovative aspects that are important in this new environment and for novel applications, e.g., pattern and process mining, business semantics, Linked Open Data, and large-scale data management and analysis. Combining papers by leading researchers in the field, this volume equips the reader with the state-of-the-art background necessary for creating the future of BI. It also provides the reader with an excellent basis and many pointers for further research in this growing field.

Communication Systems and Information Technology Springer

Designed to facilitate the use of audit data analytics (ADAs) in the financial statement audit, this title was developed by leading experts across the profession and academia. The guide defines audit data analytics as “the science and art of discovering and analyzing patterns, identifying anomalies, and extracting other useful information in data underlying or related to the subject matter of an audit through analysis, modeling, and visualization for planning or performing the audit.” Simply put, ADAs can be used to perform a variety of procedures to gather audit evidence. Each chapter focuses on an audit area and includes step-by-step guidance illustrating how ADAs can be used throughout the financial statement audit. Suggested considerations for assessing the reliability of data are also included in a separate appendix.

From Software Engineering to Formal Methods and Tools, and Back John Wiley & Sons

This book offers a selection of papers from the 2016 International Conference on Software Process Improvement (CIMPS’16), held between the 12th and 14th of October 2016 in Aguascalientes, Aguascalientes, México. The CIMPS’16 is a global forum for researchers and practitioners to present and discuss the most recent innovations, trends, results, experiences and concerns in the different aspects of software engineering with a focus on, but not limited to, software processes, security in information and communication technology, and big data. The main topics covered include: organizational models, standards and methodologies, knowledge management, software systems, applications and tools, information and communication technologies and processes in non-software domains (mining, automotive, aerospace, business, health care, manufacturing, etc.) with a clear focus on software process challenges.

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