

Searches

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Table of contents

Introduction	4
1 Summary	6
2 Databases Searched	7
3 List of eligible journals	9
4 Literature Selection	10
5 Literature Identified	11
References	15

List of Tables

1	Result set	5
2.1	Databases consulted	7
2.2	Other resources - not consulted	8
3.1	Basket of 11	9
3.2	Other journals of interest	9
5.1	Identified through database searching	11
5.1	Identified through database searching	12
5.1	Identified through database searching	13
5.2	Identified through other sources	13
5.3	Records screened at abstract level	14
5.4	Records included in the study	14

Introduction

This site contains the searches performed on the various databases. A description for these databases is included in Table 2.1.

Initially 6 queries have been run against the 6 databases resulting in 84 hits as shown in Table 1 in [appendix D](#). After testing the initially formulated 6 queries have been reduced to 4 queries. The first two queries search for “business process management” or BPM in the title. The last two queries search for “business process engineering” or business process reengineering” in the title.

1. TI=(“business process management” or BPM) AND (AB=(compliance) OR KP=(compliance))
2. TI=(“business process management” or BPM) AND (AB=(“regulat*”) OR KP=(“regulat*”))
3. TI=(“business process *engineering”) AND (AB=(compliance) OR KP=(compliance))
4. TI=(“business process *engineering”) AND (AB=(regulat*) OR KP=(regulat*))

The initial list (Table 5.1) contains a total of 84 records. An additional 6 records were found from other sources (Table 5.2). The total is 90 records. This list includes preprints and conference papers. Filtering the journal articles results in a list of 25 records (Table 5.3).

In the case of Web of Science (WoS) the four queries have been taken together using the “OR” operator. This final query yields 42 results when using the the Vlerick WoS subscription¹. The search strings have been adapted to suit the specific requirements of the databases.

Across the 6 databases 84 articles have been identified, and an additional 6 records have been added from different sources. The found records are listed in [Appendix D](#): Table 5.1 and Table 5.2.

The process to get to the final 23 papers included in this literature study is visualized in the flowchart in [Appendix C](#).

In summary:

¹Web of Science: Core Collection
Subscription : Vlerick Business School
Editions : A&HCI , ESCI , CPCI-SSH , CPCI-S , SCI-EXPANDED , SSCI
Date range: 2014-2024

Table 1: Result set

Database	Found	Additional	Subtotal	Excluded	Result set
WoS	29		29	-19	10
ACM					
SD	7		7	-7	0
SSRN	0	+2	2	-2	0
arXiv	0	+4	4	-4	0
dblp	42		42	-37	5
zenodo	0				0
additional	0	+6	6		6
total	78	+12	90	-69	21

1 Summary

x databases queries resulting in 115 items.

2 Databases Searched

Table 2.1: Databases consulted

Platform	Type	Focus	Coverage	Access
Web of Science	Citation index	Wide range of disciplines (including hard sciences, social sciences, and the humanities)	Over 18,000 academic journals, books, patents, and other scholarly publications	Subscription-based
ScienceDirect	Academic literature platform	Science, technology, medicine, and social science	Over 3,500 peer-reviewed journals	Subscription-based and open access
ACM	Digital Library	Computing and information technology	Full-text articles from ACM journals and conference proceedings	Subscription-based and open access?
SSRN	Preprints	Social sciences, economics, and business	Early-stage social science, economics, and business research papers	Open access
arXiv	Preprints	Hard sciences and quantitative sciences	Early-stage research papers in a wide range of disciplines	Open access
DBLP	Bibliography database	Computer science	Scholarly publications in computer science	Open access

Platform	Type	Focus	Coverage	Access
Zenodo	Dataset repository	Data from various disciplines	Data from research projects, surveys, and other data collection efforts	Open access

Table 2.2: Other resources - not consulted

Platform	Operator	Note
Scopus	Elsevier	not available via Vlerick
OpenAlex ¹	OpenAlex	
OpenAIRE	OpenAIRE	Mentioned in connection with Zenodo and also EU Research Programs
CEUR Workshop Proceedings		

¹For a description of OpenAlex see Priem, Piwowar, and Orr (2022).

3 List of eligible journals

The columns: level and impact factor (IF) are taken from the Vlerick Strategic Journal List (the List), effective as of January 2020. Empty means the journal is not on the List.

Table 3.1: Basket of 11

Journal Title	Level	IF
MIS Quarterly (MISQ)	A*	7,268
Journal of Management Information Systems (JMIS)	A*	2,744
Information Systems Journal (ISJ)	A	4,267
Journal of the Association for Information Systems (JAIS)	A	2,839
Communications of the Association for Information Systems (CAIS)	A	?
Information Systems Research (ISR)	A*	2,301
Journal of Information Technology (JIT)	A	4,435
European Journal of Information Systems (EJIS)	A	2,819
Decision Support Systems (DSS)	A	2,819
Information & Management (IAM)	A	3,890
Information and Organization (IAO)		

Next to the basket of 11 there are other journals that are of interest. BISE is of interest because it is an european (IS) journal (as is EJIS). BPMJ and IJDG may be of interest given the subject matter their titles refer to.

Table 3.2: Other journals of interest

Journal Title	Level	IF
Business Process Management Journal (BPMJ)		
Business & Information Systems Engineering (BISE)		
Journal of Disclosure and Governance (IJDG)		

4 Literature Selection

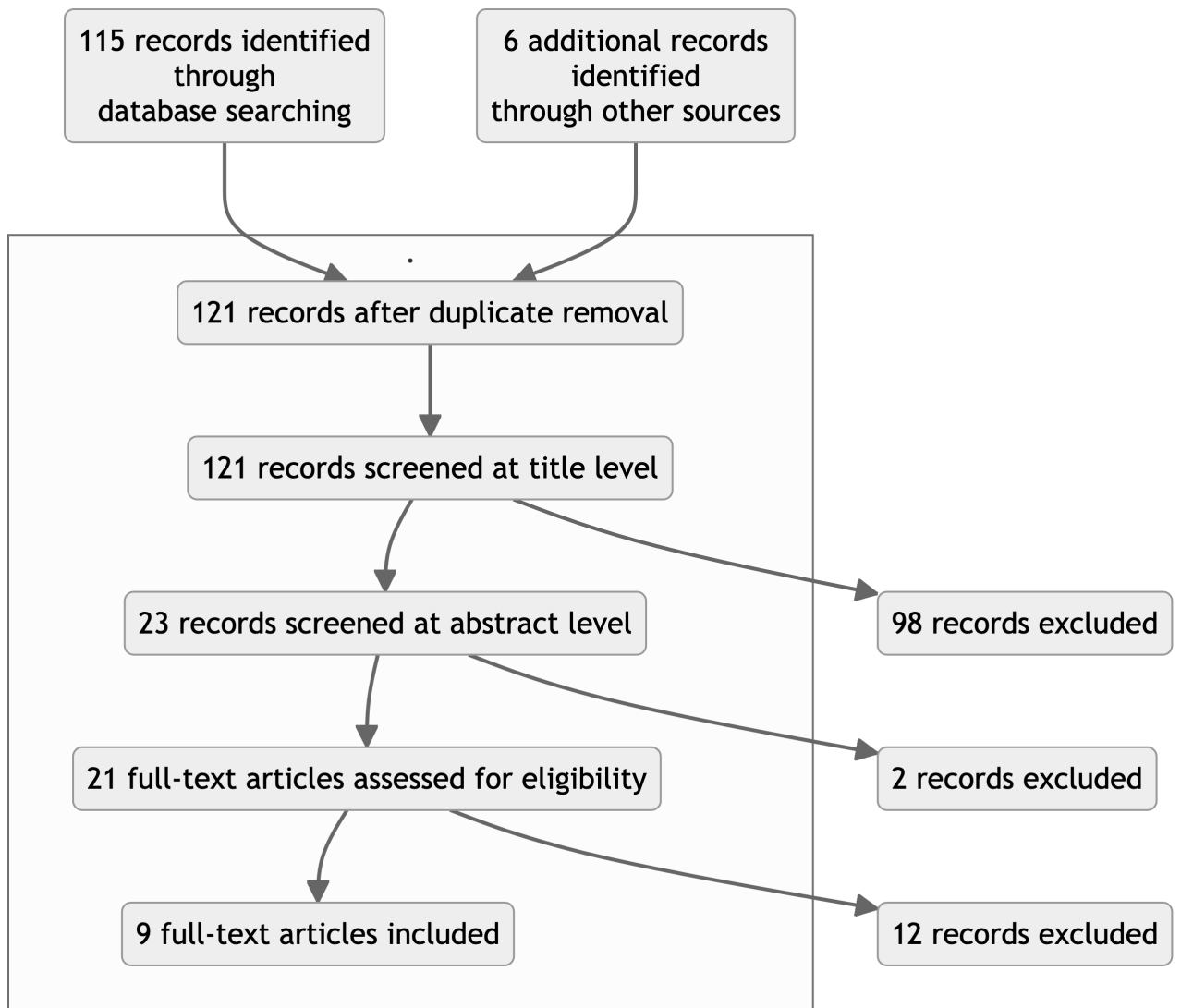


Figure 4.1: Flowchart depicting literature selection.

5 Literature Identified

The tables below show records found. Seq (sequence) shows a table row number. Source shows the data source where the record was found. Type holds the type of publication (conference proceedings, journal article, preprint, etc.) Title is the title of the publication. EC (exclusion criterion) shows the reason a record is excluded. If a record is excluded for multiple reasons, only one reason is shown. QA (quality assessment) shows the QA-score the record obtained (0-4).

Table 5.1: Identified through database searching

Seq	Source	Type	Title	EC
1	WoS_01	cpaper	Design Solutions for Business Process Reengineering of an Agricultural Enterprise	5
2	WoS_02	jour	Blockchain-as-a-Service for Business Process Management: Survey and Challenges	-
3	WoS_03	jour	Business Process Management - A Traditional Approach versus a Knowledge Based Approach	-
4	WoS_04	jour	Blockchain-based business process management (BPM) framework for service composition in industry 4.0	-
5	WoS_05	jour	Regulatory Instability, Business Process Management Technology, and BPM Skill Configurations	-
6	WoS_06	jour	The influence of directive explanations on users' business process compliance performance	-
7	WoS_07	cpaper	Business Process Management Driven by Data Governance	3
8	WoS_08	cpaper	An Open-Source Proactive Security Infrastructure For Business Process Management	3
9	WoS_09	cpaper	Cloud Based Privacy Preserving Collaborative Business Process Management	3
10	WoS_10	jour	A knowledge-intensive adaptive business process management framework	-
11	WoS_11	cpaper	Process model verifier for integrated medical healthcare systems using business process management system	5
12	WoS_12	cpaper	Agile Innovation Through Business Process Management: Realizing the Potential of Digital Transformation	3
13	WoS_13	cpaper	Managing Security Objects and -Processes Using an Extended BPM Approach and -System	3
14	WoS_14	jour	Toward agile Business Process Management: Description of concepts and a proposed definition	-
15	WoS_15	jour	Spreadsheets for business process management Using process mining to deal with "events" rather than "numbers"?	-
16	WoS_16	jour	BPM perspectives to support ICSs: Exploiting the integration of formal verifications into investment service provision processes	-
17	WoS_17	jour	Improved Compliance by BPM-Driven Workflow Automation	-
18	WoS_18	jour	Simulation of the Inventory Process in a Postharvest of Export Roses Under a Business Process Management approach	5
19	WoS_19	cpaper	Business Process Management Notation for a Costing Model Conception	5
20	WoS_20	cpaper	BPM analysis and security case study: dining rooms Cartagena military, Colombia	5
21	WoS_21	cpaper	The Value of Business Process Management to Understand Complex Asset Management Processes	5
22	WoS_22	cpaper	The Business Process Management Map - an Effective Means for Managing the	5

Table 5.1: Identified through database searching

Seq	Source	Type	Title	EC
23	WoS_23	cpaper	Enterprise Value Chain	3
24	WoS_24	cpaper	Business Process Management Systems in Support of Corporate Governance: Applying Orlikowski's Theoretical Lens	3
25	WoS_24	jour	How do Machine Learning, Robotic Process Automation, and Blockchains Affect the Human Factor in Business Process Management?	5
26	WoS_26	cpaper	Multi-objective container scheduling and multi-path routing for elastic business process management in autonomic multi-tenant cloud	3
27	WoS_27	jour	Experiences from Selecting a BPM Notation for an Enterprise	4
28	WoS_28	cpaper	Compositional Analysis of Biodiesel Particulate Matter (BPM) from a Non-Road Diesel Generator	4
29	WoS_29	jour	BPM-CUL3 E3 ligase modulates thermotolerance by facilitating negative regulatory domain-mediated degradation of DREB2A in Arabidopsis	4
30	dblp_01	jour	The Pumilio RNA-binding protein APUM24 regulates seed maturation by fine-tuning the BPM-WRI1 module in Arabidopsis	-
31	dblp_02	proc	Business Process Modelling in Healthcare and Compliance Management: {A} Logical Framework	3
32	dblp_03	jour	Checking Compliance in Data-Driven Case Management	-
33	dblp_04	proc	Norms modeling constructs of business process compliance management frameworks: a conceptual evaluation	3
34	dblp_05	proc	Compliance Checking for Decision-Aware Process Models	3
35	dblp_06	proc	Checking Business Process Models for Compliance - Comparing Graph Matching and Temporal Logic	3
36	dblp_07	coll	Using Business Process Compliance Approaches for Compliance Management with Regard to Digitization: Evidence from a Systematic Literature Review	3
37	dblp_08	jour	Enabling Flexibility of Business Processes Using Compliance Rules: The Case of Mobiliar	-
38	dblp_09	proc	Comparative Analysis of Business Process Modelling Tools for Compliance Management Support	3
39	dblp_10	coll	Embracing Process Compliance and Flexibility Through Behavioral Consistency Checking in ACM - A Repair Service Management Case	X
40	dblp_11	proc	Managing Regulatory Compliance in Business Processes	3
41	dblp_12	proc	Online Compliance Monitoring of Service Landscapes	6
42	dblp_13	jour	Unterstützung von dynamischen Compliance Prozessen durch Business Process Management Plattformen	-
43	dblp_14	proc	Business process management enabled compliance-aware medical record sharing	3
44	dblp_15	proc	A Methodological Evaluation of Business Process Compliance Management Frameworks	3
45	dblp_16	proc	Supporting Domain Experts to Select and Configure Precise Compliance Rules	3
46	dblp_17	proc	Compliance Check in Semantic Business Process Management	3
47	dblp_18	proc	Business Process Regulatory Compliance Management Solution Frameworks: {A} Comparative Evaluation	3
48	dblp_19	proc	Towards Compliance of Cross-Organizational Processes and Their Changes - Research Challenges and State of Research	3
49	dblp_20	proc	EU Project BPM-GOSPEL - Applying Compliance Management Scenarios in Business Process Modelling for Trusted Business Coaching Programs	3
50	dblp_21	proc	Causes-based problems in business process compliance based management	3
51	dblp_22	proc	Making Compliance Measures Actionable: {A} New Compliance Analysis Approach	3
52	dblp_23	proc	Separating Compliance Management and Business Process Management	3
53	dblp_24	proc	Activity-Oriented Clustering Techniques in Large Process and Compliance Rule Repositories	3
54	dblp_25	proc	Towards an Integration of {GRC} and {BPM} - Requirements Changes for Compliance Management Caused by Externally Induced Complexity Drivers	3
55	dblp_26	proc	Compliance Oriented Process Management Using the Example of Clinical Trials	3
56	dblp_27	proc	Business Process and Regulations Compliance Management Technology	3
57	dblp_28	phdt	A systematic review of goal-oriented requirements management frameworks for business process compliance	-
58	dblp_29	proc	A compliance management framework for business process models	3
			Business Control Management - A Discipline to Ensure Regulatory Compliance	

Table 5.1: Identified through database searching

Seq	Source	Type	Title	EC
			of {SOA} Applications	
59	dblp_30	proc	Business Process Compliance Tracking Using Key Performance Indicators	3
60	dblp_31	proc	Essential Aspects of Compliance Management with Focus on Business Process Automation	3
61	dblp_32	proc	Process Views to Support Compliance Management in Business Processes	3
62	dblp_33	proc	Visualization of Compliance Violation in Business Process Models	3
63	dblp_34	proc	Semantic Compliance Management in Business Process Management	3
64	dblp_35	proc	A Semantic Framework for Compliance Management in Business Process Management	3
65	dblp_36	proc	Aligning Risk Management and Compliance Considerations with Business Process Development	3
66	dblp_37	proc	Checking Compliance of Execution Traces to Business Rules	3
67	dblp_38	proc	Detecting Regulatory Compliance for Business Process Models through Semantic Annotations	3
68	dblp_39	proc	Service Contract Compliance Management in Business Process Management	3
69	dblp_40	proc	Policy-Based Semantic Compliance Checking for Business Process Management	3
70	dblp_41	proc	Compliance Aware Business Process Design	3
71	dblp_42	proc	Business Process and Business Rule Modeling Languages for Compliance Management: A Representational Analysis	3
72	SD_01	book	Chapter 4: Next-Generation Business Process Management (BPM)	1
73	SD_02	short	Business Process Reengineering of emergency management procedures: A case study	3
74	SD_03	cpaper	The Business Process Management Map – an Effective Means for Managing the Enterprise Value Chain	3
75	SD_04	cpaper	A knowledge-intensive adaptive business process management framework	3
76	SD_05	cpaper	From policy implementation to business process management: Principles for creating flexibility and agility	3
77	SD_06	cpaper	Improved Compliance by BPM-Driven Workflow Automation	3
78	SD_07	cpaper	Improving Telemedicine Processes Via BPM	5
79	SSRN_01	preprint	Efficient Vehicle Certification Management with Business Process Management	5
80	SSRN_02	preprint	Balancing Flexibility and Compliance in Response to Long-Tailed Business Process Changes	3
81	arXiv_01	preprint	Efficient Checking of Timed Order Compliance Rules over Graph-encoded Event Logs	3
82	arXiv_02	preprint	Predictive Compliance Monitoring in Process-Aware Information Systems: State of the Art, Functionalities, Research Directions	5
83	arXiv_03	preprint	Semi-automated checking for regulatory compliance in e-Health	5
84	arXiv_04	preprint	An Open-Source Integration of Process Mining Features into the Camunda Workflow Engine: Data Extraction and Challenges	3

Table 5.2: Identified through other sources

Seq	Source	Type	Title	EC
1	other_01	jour	Evaluation of Compliance Rule Languages for Modelling Regulatory Compliance Requirements	-
2	other_02	jour	RegelSpraak: a CNL for Executable Tax Rules Specification	-
3	other_03	jour	Are we done with business process compliance: state of the art and challenges ahead	-
4	other_04	jour	Comparing textual descriptions to process models – The automatic detection of inconsistencies.	-
5	other_05	cpaper	Supporting domain experts to select and configure precise compliance rules	-
6	other_06_b	jour	Product-Based Workflow Support	-

Table 5.3: Records screened at abstract level

Seq	Source	Type	Title	QA
1	WoS_02	jour	Blockchain-as-a-Service for Business Process Management: Survey and Challenges	1
2	WoS_03	jour	Business Process Management - A Traditional Approach versus a Knowledge Based Approach	2
3	WoS_04	jour	Blockchain-based business process management (BPM) framework for service composition in industry 4.0	3
4	WoS_05	jour	Regulatory Instability, Business Process Management Technology, and BPM Skill Configurations	2
5	WoS_06	jour	The influence of directive explanations on users' business process compliance performance	3
6	WoS_10	jour	A knowledge-intensive adaptive business process management framework	3
7	WoS_14	jour	Toward agile Business Process Management: Description of concepts and a proposed definition	3
8	WoS_15	jour	Spreadsheets for business process management Using process mining to deal with "events" rather than "numbers"?	3
9	WoS_16	jour	BPM perspectives to support ICSs: Exploiting the integration of formal verifications into investment service provision processes	2
10	WoS_17	jour	Improved Compliance by BPM-Driven Workflow Automation	1
11	dblp_01	jour	Business Process Modelling in Healthcare and Compliance Management: A Logical Framework	2
12	dblp_03	jour	Norms modeling constructs of business process compliance management frameworks: a conceptual evaluation	3
13	dblp_08	jour	Comparative Analysis of Business Process Modelling Tools for Compliance Management Support	1
14	dblp_13	jour	Business process management enabled compliance-aware medical record sharing	2
15	dblp_28	phdt	A compliance management framework for business process models	0
16	other_01	jour	Evaluation of Compliance Rule Languages for Modelling Regulatory Compliance Requirements	2
17	other_02	jour	RegelSpraak: a CNL for Executable Tax Rules Specification	2
18	other_03	jour	Are we done with business process compliance: state of the art and challenges ahead	3
19	other_04	jour	Comparing textual descriptions to process models – The automatic detection of inconsistencies.	3
20	other_05	cpaper	Supporting domain experts to select and configure precise compliance rules	1
21	other_06	jour	Product-Based Workflow Support	3

Table 5.4: Records included in the study

Seq	Source	Type	Title	QA	Year
1	other_06	jour	Product-Based Workflow Support	3	2011
2	WoS_06	jour	The influence of directive explanations on users' business process compliance performance	3	2016
3	other_04	jour	Comparing textual descriptions to process models – The automatic detection of inconsistencies.	3	2017
4	WoS_15	jour	Spreadsheets for business process management Using process mining to deal with "events" rather than "numbers"?	3	2018
5	dblp_03	jour	Norms modeling constructs of business process compliance management frameworks: a conceptual evaluation	3	2018
6	other_03	jour	Are we done with business process compliance: state of the art and challenges ahead	3	2018
7	WoS_04	jour	Blockchain-based business process management (BPM) framework for service composition in industry 4.0	3	2020
8	WoS_10	jour	A knowledge-intensive adaptive business process management framework	3	2021
9	WoS_14	jour	Toward agile Business Process Management: Description of concepts and a proposed definition	3	2023

References

Priem, Jason, Heather Piwowar, and Richard Orr. 2022. “OpenAlex: A Fully-Open Index of Scholarly Works, Authors, Venues, Institutions, and Concepts.” <https://arxiv.org/abs/2205.01833>.