1 PROCESS MINING IN BRAZIL: FIFTEEN YEARS - LIST OF ARTICLES THAT MAKE UP EACH SLR QUESTION ANSWER

Tabela 1.1: RQ1 - Distribution of articles by contribution group

Group (articles)	Total (%)
Review, presentation, and testing of existing tools and	6 (9,2%)
algorithms (VASCONCELOS; BERNARDINI; VITERBO,	
2024), (NETO et al., 2021), (M. Valle; A.P. Santos; R. Loures,	
2017), (D'CASTRO; OLIVEIRA; TERRA, 2018),	
(SZIMANSKI et al., 2013), (KALSING et al., 2010)	
New tools, algorithms, and approaches for process mining	14 (21,5%)
(BARBIERI et al., 2022), (COLONNA et al., 2024),	
(FANTINATO; PERES; REIJERS, 2023), (de Souza et al.,	
2023), (FANTINATO; PERES; REIJERS, 2021), (CIRNE et al.,	
2020a), (GONZáLEZ et al., 2019), (LIAO et al., 2014),	
(RICHETTI; BAIãO; SANTORO, 2014), (KALSING et al.,	
2014), (ESPOSITO et al., 2013), (FERREIRA; SZIMANSKI;	
RALHA, 2013), (KALSING et al., 2013), (KALSING; THOM;	
IOCHPE, 2010)	
New tools, approaches, and methodologies for evaluating	2 (3,1%)
results Maita et al. (2024), (MAITA et al., 2023)	
Conducting SLR or bibliographic analysis (SOUTHIER et al.,	13 (20%)
2023a), (IACHECEN et al., 2023), (DALLAGASSA et al.,	
2022a), (SATO et al., 2021), (ROMERO et al., 2021),	
(ROMERO et al., 2020), (BIAZUS et al., 2019), (GARCIA et al.,	
2019b), (FERNANDES et al., 2019), (SILVA, 2018), (MAITA et	
al., 2018), (YASMIN; BUKHSH; SILVA, 2018), (MAITA et al.,	
2015)	

Tabela 1.1 – Continuation of the table from the previous page - RQ1

Group (articles)	Total (%)
Approaches to solving event log problems (JUNIOR et al.,	5 (7,7%)
2023), (SATO et al., 2020), (SCHIRMER et al., 2018),	
(CERAVOLO et al., 2017), (BRANDãO; SANTORO;	
AZEVEDO, 2015)	
Approaches to detecting anomalous traces (JUNIOR et al.,	8 (12,3%)
2021), (TAVARES; JUNIOR, 2021), (NETO et al., 2021),	
(JUNIOR et al., 2020), (TAVARES et al., 2018), (JUNIOR et al.,	
2018), (BEZERRA; WAINER, 2013), (BEZERRA; WAINER,	
2011)	
Approaches to solving concept drift (NETO et al., 2024),	8 (12,3%)
(SOUSA et al., 2024), (NETO et al., 2023), (RADUY et al.,	
2023), (SOUSA et al., 2021), (SOUSA; PERES, 2020),	
(TAVARES et al., 2019), (JUNIOR et al., 2018)	
Specific methodologies for business areas (LOPES et al.,	6 (9,2%)
2024), (ARAúJO et al., 2023), (DALLAGASSA et al., 2022b),	
(SOUZA et al., 2021), (SANTORO et al., 2020), (PEREIRA;	
SANTOS; MACENO, 2020)	
Approaches and algorithms for process prediction	3 (4,6%)
(NEUBAUER et al., 2023), (MáRQUEZ-CHAMORRO et al.,	
2020), (SANTOS et al., 2013)	

Source: the author

Tabela 1.2: RQ2 - Techniques used by publication

Article	Discovery	Conf.	Enhan-
		checking	cement
(VERCOSA et al., 2024)	X	-	-
(LOPES et al., 2024)	X	-	-
(SANTOS; LOURES; SANTOS, 2024)	X	-	-
(SANTOS et al., 2024)	X	-	-

Tabela $1.2-Continuation\ of\ the\ table\ from\ the\ previous\ page\ -\ RQ2$

Article	Discovery	Conf.	Enhan-
		checking	cement
(OLIVEIRA et al., 2024)	X	-	-
(MICOSKY et al., 2024)	X	-	-
(AKHRAMOVICH; SERRAL; CETINA,	X	-	-
2024)			
(ANTUNES et al., 2023)	X	-	-
(FANTINATO; PERES; REIJERS, 2023)	X	-	-
(SOUTHIER et al., 2023b)	X	-	-
(PEGORARO et al., 2023)	X	-	X
(de Souza et al., 2023)	-	X	X
(MAITA et al., 2023)	X	-	-
(NETO et al., 2023)	X	-	-
(PRADO et al., 2023)	X	-	-
(ARAúJO et al., 2023)	x	-	-
(CASTRO et al., 2022)	X	-	-
(LEANDRO et al., 2022)	x	-	-
(UNGER et al., 2022)	X	-	-
(DALLAGASSA et al., 2022c)	X	-	-
(NEUBAUER et al., 2022)	x	x	-
(PORTELA; CATAPAN; DESCHAMPS,	X	-	-
2022)			
(BORGES et al., 2022)	x	-	-
(BOARETO et al., 2022)	x	-	-
(FERRONATO; SCALABRIN; CARVALHO,	x	x	-
2022)			
(ALVES et al., 2022)	x	x	-
(NEUBAUER et al., 2022)	X	-	-
(LUNA et al., 2021)	x	-	-
(MELLO; REVOREDO; SANTORO, 2021)	x	-	-
(CHOUEIRI; Portela Santos, 2021)	X	-	-

Tabela $1.2-Continuation\ of\ the\ table\ from\ the\ previous\ page\ -\ RQ2$

Article	Discovery	Conf.	Enhan-
		checking	cement
(REAL; PIMENTEL, 2021)	X	-	-
(NEDOPETALSKI; FREITAS, 2021b)	X	-	-
(CHOUEIRI; SANTOS, 2021)	X	-	-
(FERRONATO; SCALABRIN, 2021)	X	-	-
(RUSCHEL; Rocha Loures; SANTOS, 2021)	X	X	-
(VERçOSA et al., 2021)	X	-	-
(NEDOPETALSKI; FREITAS, 2021a)	X	-	-
(REAL; PIMENTEL; BRAGA, 2021)	X	-	-
(NEUBAUER et al., 2021)	X	x	-
(LEANDRO et al., 2021)	X	-	-
(SOUZA et al., 2021)	X	x	X
(FANTINATO; PERES; REIJERS, 2021)	X	-	-
(KRUGGER et al., 2021)	X	x	-
(UNGER et al., 2021)	X	-	-
(TAVARES; JUNIOR, 2021)	-	x	-
(NETO et al., 2021)	-	x	-
(APUNIKE et al., 2020)	X	-	-
(PIMENTEL et al., 2020)	X	-	-
(SANTORO et al., 2020)	X	x	-
(BARBASTEFANO; CARVALHO; LIPPI,	X	x	-
2020)			
(DETRO et al., 2020)	X	-	-
(DUARTE, 2020)	X	x	X
(PEREIRA; SANTOS; MACENO, 2020)	X	x	X
(RUSCHEL; SANTOS; LOURES, 2020)	X	-	-
(CIRNE et al., 2020b)	X	x	-
(CHOUEIRI et al., 2020)	X	-	-
(SATO et al., 2020)	X	x	-
(SATO et al., 2020)	-	x	-

Tabela $1.2-Continuation\ of\ the\ table\ from\ the\ previous\ page\ -\ RQ2$

Article	Discovery	Conf.	Enhan-
		checking	cement
(SANTOS; SOUTHIER; SCALABRIN, 2020)	X	-	X
(JUNIOR et al., 2020)	-	X	-
(CIRNE et al., 2020a)	X	x	-
(MáRQUEZ-CHAMORRO et al., 2020)	x	x	-
(AZEVEDO et al., 2020)	X	-	-
(FLORES et al., 2020)	X	-	-
(MELLO; REVOREDO; SANTORO, 2019)	X	-	-
(ANTUNES et al., 2019)	X	-	-
(NEIRA et al., 2019)	x	-	-
(ROSA; CAMPOS; CAVALCANTI, 2019)	X	-	-
(GONZáLEZ et al., 2019)	x	x	-
(VAKULENKO et al., 2019)	x	x	-
(AMARAL et al., 2019)	x	-	-
(GARCIA et al., 2019a)	X	-	-
(MAIORKI; SANTOS; LOURES, 2019)	x	-	-
(UHLMANN; SANTOS; MENDES, 2019)	x	-	-
(MENDES et al., 2018)	x	-	-
(SANTOS et al., 2018)	x	x	-
(JUNIOR et al., 2018)	x	X	-
(D'CASTRO; OLIVEIRA; TERRA, 2018)	x	-	-
(AMARAL; FANTINATO; PERES, 2018)	x	-	-
(BUKHSH et al., 2018)	x	-	-
(GERHARDT; VALIATI; Canto dos Santos,	x	-	X
2018)			
(SCHIRMER et al., 2018)	x	-	-
(TAVARES et al., 2018)	x	x	-
(de Alvarenga et al., 2018)	x	-	-
(VRIES et al., 2017)	-	x	-
(DETRO et al., 2017)	Х	-	X

Tabela $1.2-Continuation\ of\ the\ table\ from\ the\ previous\ page\ -\ RQ2$

Article	Discovery	Conf.	Enhan-
		checking	cement
(VALERIO et al., 2017)	X	-	-
(RIZ; SANTOS; LOURES, 2017)	X	-	-
(CERAVOLO et al., 2017)	X	-	-
(MEINCHEIM et al., 2017)	X	-	-
(MAITA et al., 2017)	X	X	-
(dos Santos et al., 2017)	X	-	-
(RUSCHEL; SANTOS; LOURES, 2017)	X	-	-
(PIECHNICKI; LOURES; SANTOS, 2017)	X	-	-
(M. Valle; A.P. Santos; R. Loures, 2017)	X	x	-
(RICHETTI et al., 2017)	X	-	-
(RIZ; SANTOS; LOURES, 2016a)	X	x	X
(RIZ; SANTOS; LOURES, 2016b)	X	-	-
(GANDULFO et al., 2016)	X	-	-
(BRANDãO; SANTORO; AZEVEDO, 2015)	X	-	-
(ALVARENGA et al., 2015)	X	-	-
(TRINKENREICH et al., 2015)	X	-	-
(FERREIRA; SZIMANSKI; RALHA, 2014)	-	-	X
(LIAO et al., 2014)	X	-	-
(KALSING et al., 2014)	X	-	-
(GOMES et al., 2014)	X	-	-
(DETRO et al., 2014)	X	-	-
(RICHETTI; BAIãO; SANTORO, 2014)	X	-	-
(BEZERRA; WAINER, 2013)	-	x	-
(FERREIRA; SZIMANSKI; RALHA, 2013)	X	-	-
(ESPOSITO et al., 2013)	X	-	-
(SANTOS et al., 2013)	X	x	-
(SZIMANSKI et al., 2013)	X	-	X
(KALSING et al., 2013)	X	-	-
(BEZERRA; WAINER, 2011)	X	x	-

Tabela 1.2 – Continuation of the table from the previous page - RQ2

Article	Discovery	Conf.	Enhan-
		checking	cement
(SZIMANSKI; RALHA; JACOBI, 2011)	X	-	-
(LEMOS et al., 2011)	X	X	-
(KALSING; THOM; IOCHPE, 2010)	X	-	X
(KALSING et al., 2010)	X	-	-
(CORDEIRO et al., 2009)	X	-	-
(CRERIE; BAIãO; SANTORO, 2009)	X	-	-
(BEZERRA; WAINER; AALST, 2009)	X	X	-

Source: the author

Tabela 1.3: RQ3 - Distribution of articles by challenge

Challenge	(Amount) / Article
1. Log quality	(17) (LOPES et al., 2024), (FERNANDES et al.,
	2023), (PEGORARO et al., 2023), (PRADO et al.,
	2023), (ARAúJO et al., 2023), (PORTELA;
	CATAPAN; DESCHAMPS, 2022), (REAL;
	PIMENTEL; BRAGA, 2021), (SANTORO et al.,
	2020), (PEREIRA; SANTOS; MACENO, 2020),
	(RUSCHEL; SANTOS; LOURES, 2020), (GARCIA
	et al., 2019a), (GERHARDT; VALIATI; Canto dos
	Santos, 2018), (VRIES et al., 2017), (VALERIO et
	al., 2017), (MAITA et al., 2017), (RIZ; SANTOS;
	LOURES, 2016a), (LEMOS et al., 2011)
2. Log size/complexity	(6) (ARAúJO et al., 2023), (VERCOSA;
	BASTOS-FILHO; BEZERRA, 2023), (GONZáLEZ
	et al., 2019), (GARCIA et al., 2019a), (JUNIOR et
	al., 2018), (VALERIO et al., 2017)
3. Example dataset	(0) there no citations.
(benchmark)	

Tabela 1.3 – Continuation of the table from the previous page - RQ3

Challenge	(Amount) / Article
4. Concept Drift	(0) there no citations.
5. Representational	(0) there no citations.
bias	
6. Balance between	(4) (KRUGGER et al., 2021), (RUSCHEL;
quality criteria	SANTOS; LOURES, 2020), (GERHARDT;
	VALIATI; Canto dos Santos, 2018), (GONCALVES;
	SANTORO; BAIAO, 2009)
7. Inter-Organization	(1) (DALLAGASSA et al., 2022a),
Mining	
8. Operational	(1) (DALLAGASSA et al., 2022a)
support	
9. Combined with	(0) there no citations.
other techniques	
10. Usability for	(0) there no citations.
non-experts	
11. Understanding for	(2) (D'CASTRO; OLIVEIRA; TERRA, 2018), (RIZ;
non-experts	SANTOS; LOURES, 2016a)

Source: the author

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