Appendix for Mayr et al. “Applications and Challenges of Task Mining: A Literature Review”

Appendix A: Search Strings

Database	Search String	Filter	#
IEEEXplore	*(("process mining" OR "task mining") AND (log OR task OR challenge))*	title	235
EBSCOhost	*(("process mining" OR "task mining") AND (log OR task OR challenge))*	rv	86
AISeL	*(("process mining" OR "task mining") AND (log OR task OR challenge))*	rv	61
ScienceDirect	*(("process mining" OR "task mining") AND (log OR task OR challenge))*	tak	34
ACM Digital Library	*(("process mining" OR "task mining") AND (log OR task OR challenge))*	title	29
Web of Science	*(("process mining" OR "task mining") AND (log OR task OR challenge))*	title	26

Appendix B: Coding of Literature Review

#	References	Dim.		Apls.			Challenges							
		Application	Challenges	Discovery	Monitoring	Optimization	Collection	Cleansing	Merging	Segmentation	Processing	Data Protection	Explainability	Organization
1	Aggarwal & Philip (2008)		•								•	•		
2	Agrawal & Srikant (2000)		•								•	•		
3	Aguirre & Rodriguez (2017)	•		•								•		•
4	Aldeen, Salleh & Razzaque (2015)		•									•		
5	Alves, Weijters & van der Aalst (2004)	•	•	•				•	•	•	•			
6	Anastassiu et al. (2016)	•	•		•	•			•	•				
7	Aone, Ramos-Santacruz & Niehaus (2000)		•		•		•					•		
8	Arnold et al. (2016)		•											•
9	Astromskis, Janes & Mairegger (2015)	•	•		•		•		•	•				
10	Atallah et al. (1999)		•								•	•		
11	Bach et al. (2015)		•										•	
12	Banerjee & Gupta (2015)		•								•			
13	Banziger, Basukoski & Chaussalet (2018)		•				•	•	•	•	•			
14	Bayomie et al. (2019)		•				•		•	•	•			

15	Bergeron (2000)		●									●		
16	Bezerrav& Wainer (2011)	●	●		●									●
17	Bobek & Nalepa (2019)	●			●									
18	Caesarita, Sarno & Sungkono (2017)	●		●	●	●								●
19	Celonis (2020)	●		●	●	●			●	●	●	●		
20	Claes & Poels (2012)		●						●	●				
21	Conforti, La Rosa & Hofstede (2016)		●					●						
22	Dakic et al. (2018)	●		●	●	●					●			
23	Datta, Sen & Zick (2016)		●										●	
24	de Koninck & de Weerdt (2019)		●							●				
25	de Koninck et al. (2017)		●							●				
26	de Medeiros et al. (2005)	●	●	●	●	●	●	●			●			
27	Delcoucq et al (2020)		●							●				
28	Do Nascimento et al. (2013)	●	●	●			●			●	●			
29	Dumas, van der Aalst & Hofstede (2005)		●				●							
30	Dwork (2006)		●									●		
31	Eaton (2010)		●											●
32	Epure et al. (2015)	●	●	●	●		●		●	●	●			
33	Eskin et al. (2002)	●	●		●		●			●				●
34	Ferreira & Gillblad (2009)		●	●			●			●	●			
35	Freeman & Ambady (2010)		●				●							
36	Geyer-Klingeberg et al. (2018)	●		●										
37	Gerke, Claus & Mendling (2009)	●	●	●	●	●	●		●	●	●			
38	Goeser (2000)		●		●		●	●	●	●				
39	Goodman & Flaxman (2017)		●									●		
40	Günther & van der Aalst (2007)		●							●	●			●
41	Hall (2019)		●									●	●	
42	Helmke, Brinker & Uebel (2013)		●											●
43	Hendry (2002)		●											●
44	Hoepman (2014)		●									●		
45	Holzinger et al. (2017)		●										●	
46	Iegorov, Torres & Fischmeister (2017)		●				●	●	●	●	●			
47	Imgrund, Malorny & Janiesch (2017)	●			●		●		●	●	●			
48	Jlailaty, Grigori & Belhajjame (2017)		●											
49	Kerremans, Searle, Srivastava & Iijima (2020)		●											●
50	Kim et al. (2010)	●				●								
51	Kim & Winkler (2003)		●									●		
52	Kumar, Bhattacharyya & Varshneya (2010)	●	●	●				●	●	●	●			

53	Lauer (2019)		●									●		
54	Leemans, Fahland & van der Aalst (2014)	●	●	●				●	●	●	●			
55	Leno et al. (2019)		●	●			●							
56	Leno et al. (2020)	●	●	●			●	●	●	●	●			●
57	Lewinski (2018)		●									●		
58	Li, Wang & Bai (2015)		●				●		●	●				
59	Li, Li & Venkatasubramanian (2007)		●									●		
60	Li et al. (2014)	●	●	●	●				●	●	●			
61	Li et al. (2018)		●					●			●			
62	Lindell & Pinkas (2000)		●									●		
63	Linn, Zimmermann & Werth. (2018)		●				●	●	●	●	●			
64	Lipovetsky & Conklin (2001)		●										●	
65	Lundberg (2020)		●										●	
66	Lundberg et al. (2020)		●										●	
67	Lundberg & Lee (2017)		●										●	
68	Machanavajjhala et al. (2007)		●									●		
69	Mannhardt, Petersen & Oliveira (2018)		●									●		●
70	Mannhardt et al. (2019)		●									●		
71	Martin, Benoit & Caris (2014)	●	●		●	●	●				●			
72	Martin, Depaire & Caris (2016)		●				●		●		●			
73	Martini (2018)		●									●		
74	Maruster & Beest (2009)		●		●	●	●				●			
75	McCarney et al. (2007)		●											●
76	Mendes & Vilela (2017)		●									●		
77	Mintzberg (2000)		●											●
78	Mounira & Mahmoud. (2010)		●					●	●		●			●
79	Outmazgin & Soffer (2016)	●	●		●					●				
80	Paal et al. (2018)		●									●		
81	Parker (2010)		●				●							
82	Peters & Nauroth (2019)		●											●
83	Pospiech et al. (2014)	●	●	●	●				●		●			
84	Prodel et al. (2018)	●	●	●	●	●		●	●	●	●			
85	Pronin (2007)		●											●
86	Rahim et al. (2018)		●				●							
87	Ribeiro, Tulio, Singh & Guestrin (2016a)		●										●	
88	Ribeiro, Tulio, Singh & Guestrin (2016b)		●										●	
89	Rozinat (2009)	●			●	●								
90	Samarati & Sweeney (1998a)		●									●		

91	Samarati & Sweeney (1998b)		●									●		
92	Sani, van Zelst & van der Aalst (2017)		●					●						
93	Saylam & Sahingoz (2013)	●	●	●	●	●		●	●	●	●			
94	Schott & Wick (2005)		●											●
95	Shinyama &Gondow (2018)		●				●							
96	Shoshani (1982)		●									●		
97	Shrikumar, Greenside & Kundaje (2017)		●										●	
98	Shrikumar et al. (2016)		●										●	
99	Slack et al. (2020)		●										●	●
100	Štrumbelj, & Kononenko (2014)		●										●	
101	Taeger (2019)		●									●		
102	Tang, Chen & Jiansa (2006)	●				●								
103	Tax, Sidorova & van der Aalst (2019)		●					●						
104	van der Aalst (2012)	●		●	●	●								
105	van der Aalst (2016)	●		●	●	●	●	●	●	●	●			●
106	van der Aalst, Bichler & Heinzl (2018)		●	●										
107	van der Aalst & Weijters (2004)		●					●	●		●			
108	van der Aalst, Weijters & Maruster (2004)		●											
109	van der Aalst et al. (2012)	●	●	●	●	●			●	●	●			
110	van Dongen et al. (2005)	●	●	●	●	●	●	●	●	●	●	●		
111	van Eck, Sidorova & van der Aalst (2016)		●				●	●	●		●			
112	Verbeek & van der Aalst (2014)		●				●	●	●		●			
113	Verykios (2013)		●										●	
114	Vlaar, van den Bosch & Volberda (2007)		●											●
115	vom Brocke (2020)		●											●
116	Weber et al. (2011)		●				●	●	●	●	●			
117	Weijters, van der Aalst & de Medeiros (2006)		●								●			
118	Wen et al. (2007)		●								●			
119	Wen et al. (2010)		●								●			
120	Xiao & Tao (2006)		●									●		
121	Xu & Liu (2019)		●						●	●				
122	Zaman, Cuzzocrea & Hassani (2019)		●									●		
123	Zhu et al. (2014)	●			●									
∑		**33**	**110**	**24**	**27**	**17**	**30**	**22**	**31**	**33**	**40**	**30**	**15**	**22**

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