

INTERACTIVE CONCEPT MATRIX
FOR MACHINE LEARNING IN BUSINESS PROCESS MANAGEMENT

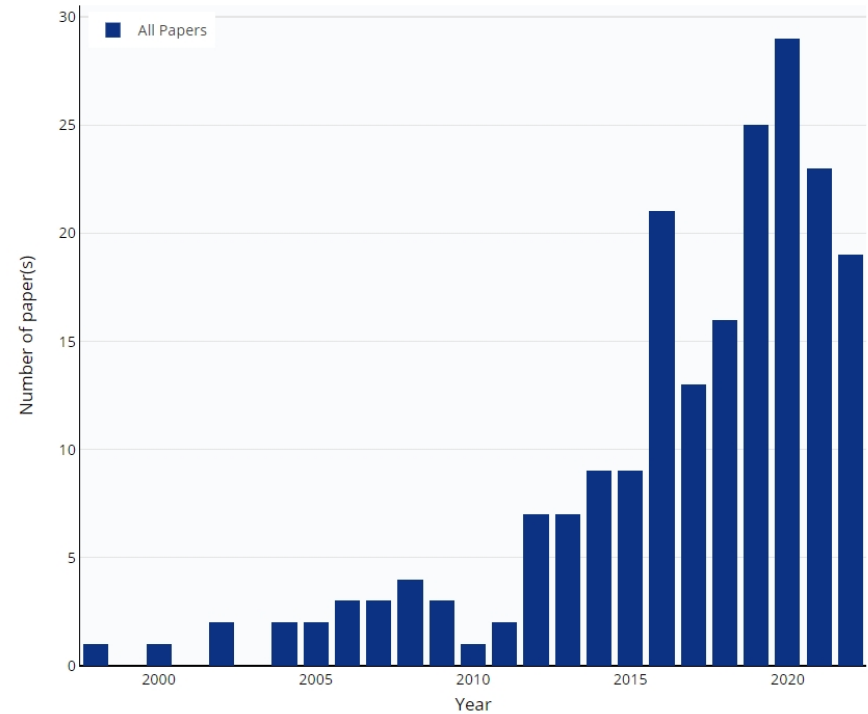
CONCEPT DEVELOPMENT OVER TIME	INTERSECTION OF CONCEPTS	COMPLETE CODING TABLE
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The bar chart shows the number of papers in different categories every year.

Select a category

All Papers

Click a bar in the bar chart to display the selected papers in the table below.



Clear table filter

Papers

Authors	Title	Year
⌵	⌵	⌵
filter data...	filter data...	filter data...
Mustansir A., Shahzad K., Malik M.K.	Towards automatic business process redesign: An NLP based approach to extract redesign suggestions	2022

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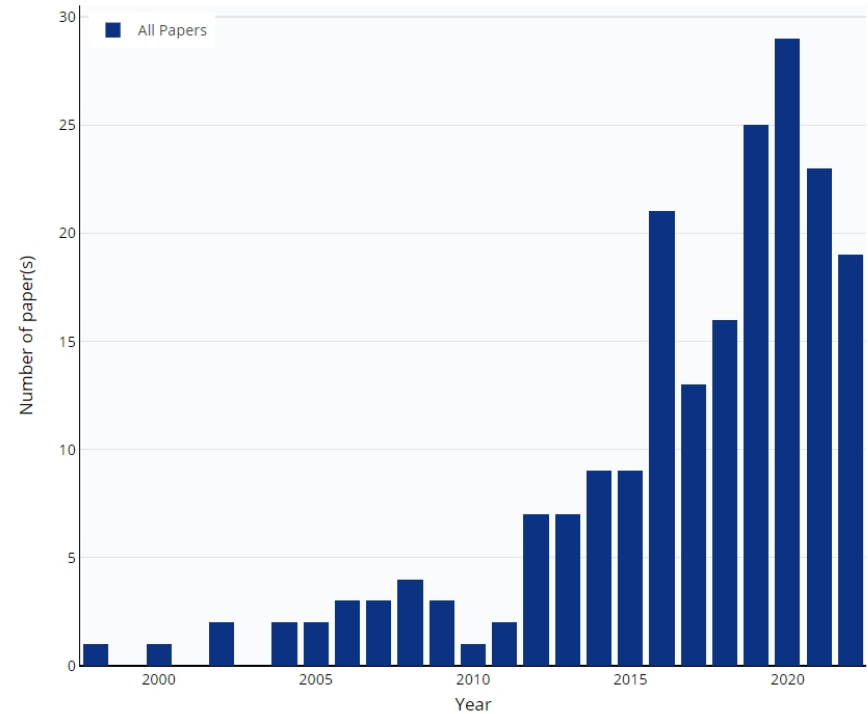
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All Papers

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Clear table filter

Paper(s) of year 2020

Authors	Title	Year
⌵	⌵	⌵
filter data...	filter data...	filter data...
Mehdiyev N., Evermann J., Fettke P.	A novel business process prediction model using a deep learning method	2020

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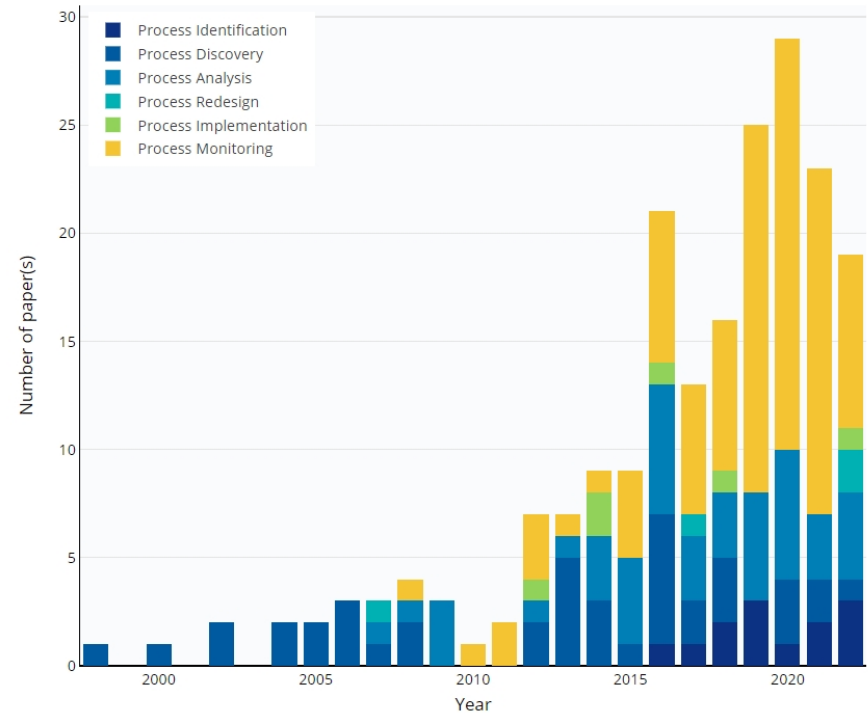
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Select a category

BPM Lifecycle

Click a bar in the bar chart to display the selected papers in the table below.



Clear table filter

Papers

Authors	Title	Year	BPM Lifecycle					
			Process Identification	Process Discovery	Process Analysis	Process Re-design	Process Implementation	Process Monitoring
filter data...								
Mustansir A., Shahzad K., Malik M.K.	Towards automatic business process redesign: An NLP based approach to	2022				x		

The heatmap shows the number of papers intersecting in the two selected dimensions.

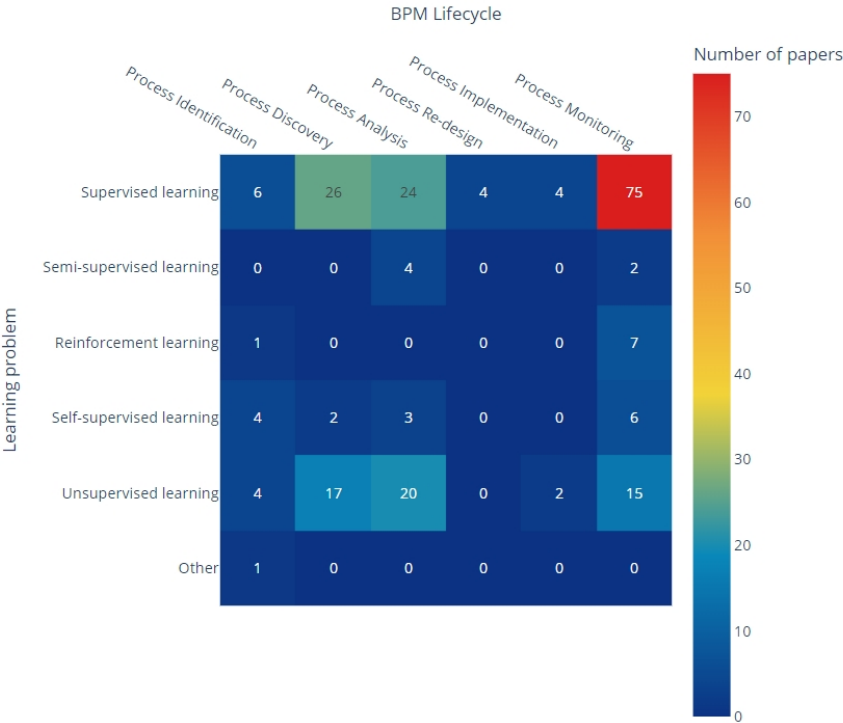
Select the first dimension

BPM Lifecycle

Select the second dimension

Learning problem

Click a cell on the heatmap to get the information of selected papers in the table below.



Clear table filter

Intersection of these two dimension: BPM Lifecycle: Process Identification AND Learning problem: Self-supervised learning

Authors	Title	Year
<div><div></div><div></div></div>	<div><div></div><div></div></div>	<div><div></div><div></div></div>
<div><div></div><div></div></div>	<div><div></div><div></div></div>	<div><div></div><div></div></div>
Guzzo A., Joaristi M., Rullo A., Serra E.	A multi-perspective approach for the analysis of complex business processes behavior	2021

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CONCEPT DEVELOPMENT OVER TIME

INTERSECTION OF CONCEPTS

COMPLETE CODING TABLE

The heatmap shows the number of papers intersecting in the two selected dimensions.

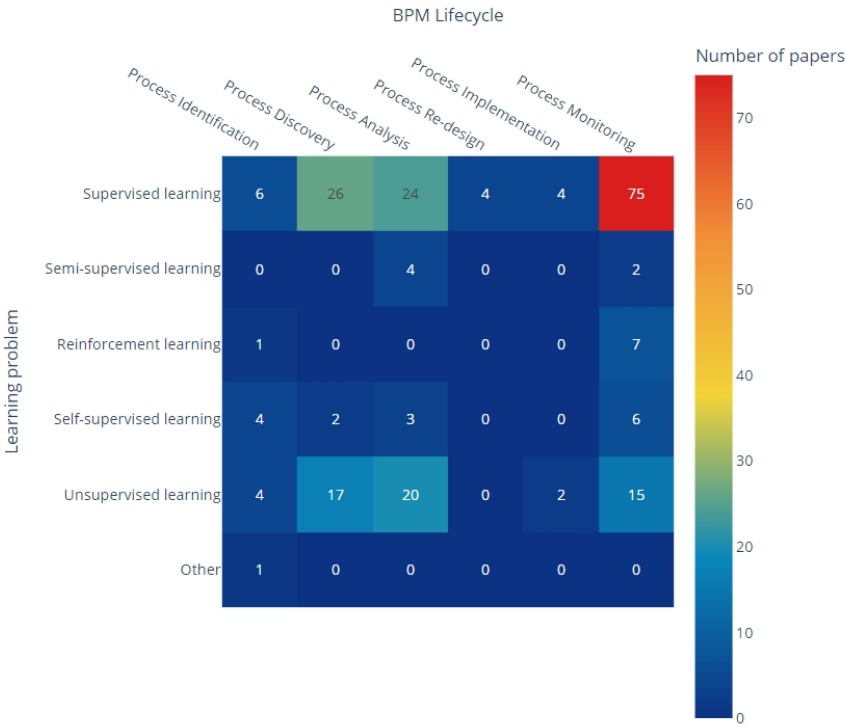
Select the first dimension

BPM Lifecycle

Select the second dimension

Learning problem

Click a cell on the heatmap to get the information of selected papers in the table below.



Clear table filter

All papers

Authors	Title	Year

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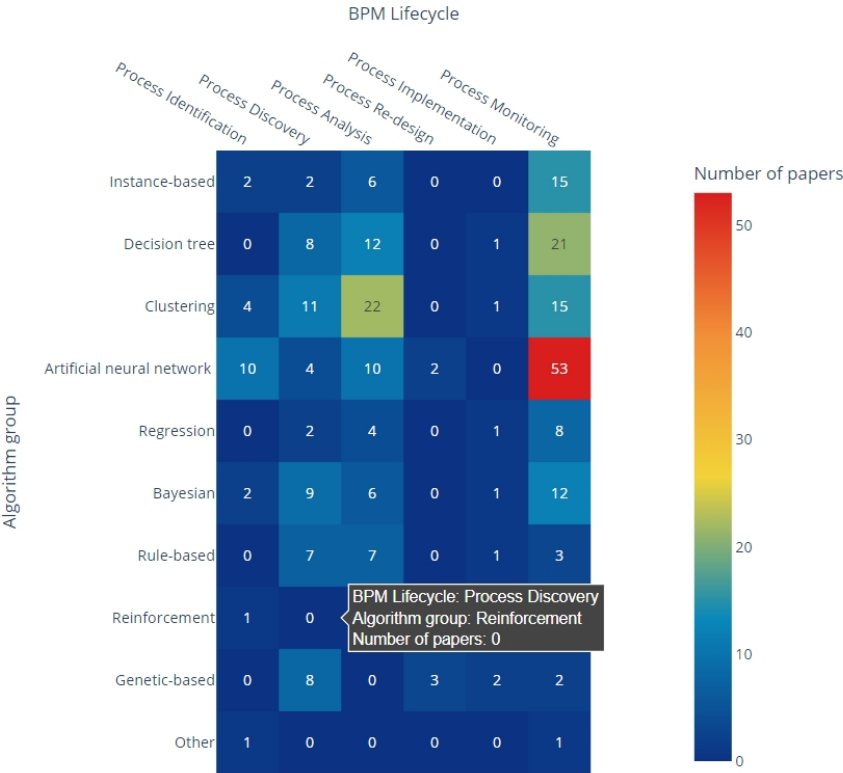
Select the first dimension

BPM Lifecycle

Select the second dimension

Algorithm group

Click a cell on the heatmap to get the information of selected papers in the table below.



Clear table filter

All papers

Authors	Title	Year

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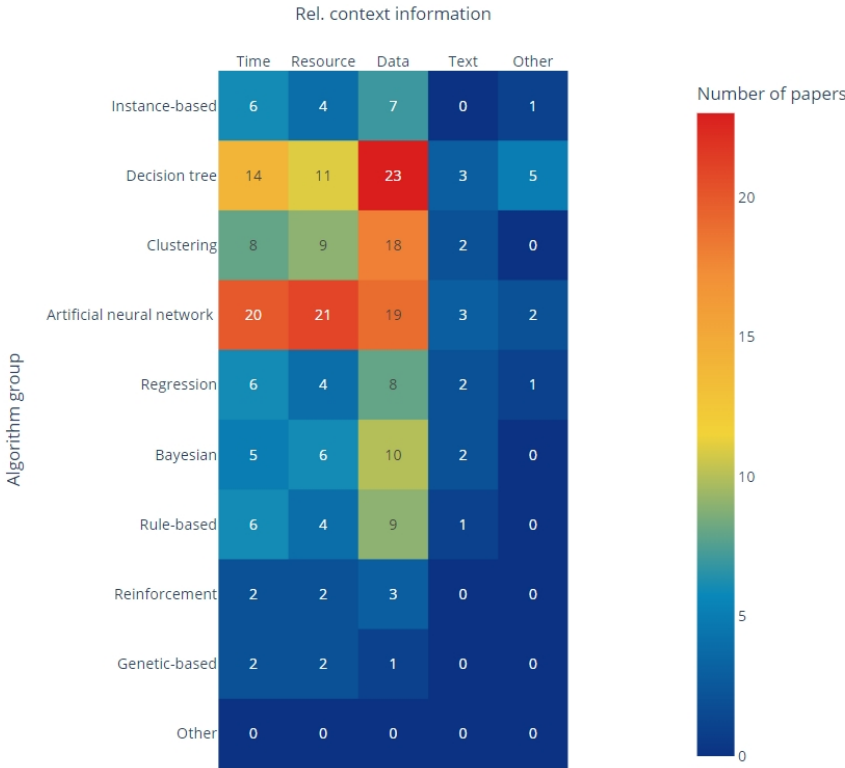
Select the first dimension

Rel. context information

Select the second dimension

Algorithm group

Click a cell on the heatmap to get the information of selected papers in the table below.



Clear table filter

All papers

Authors	Title	Year

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Clear table filter										
Authors	Title	Year	Paper information			Research Method				
			Name of outlet	Volume	Number	Reference	Data type	Number of datasets	Name of Dataset	Sta
filter data...										
Mustansir A., Shahzad K., Malik M.K.	Towards automatic business process redesign: An NLP based approach to extract redesign suggestions	2022	Automated Software Engineering	29	1		Real-world	3	Own	
Lu Y., Chen Q., Poon S.K.	A deep learning approach for repairing missing activity labels in event logs for process mining	2022	Information (Switzerland)	13	5		Real-world	6	Production, Hospital Billing, BPIC2012, Sepsis, Helpdesk, BPIC2013	
Djordjevic M.Z., Djordjevic A., Klochkova E., Mistic M.	Application of modern digital systems and approaches to business process management	2022	Sustainability (Switzerland)	14	3		Real-world	30	Different SME data sets	
Sim S., Sutrisnowati R.A., Won S., Lee S., Bae H.	Automatic conversion of event data to event logs using CNN and event density embedding	2022	IEEE Access	10			Real-world	9	BPIC2012-BPIC2018, Steel processing, port logistics	
Alves R.M., Barbieri L., Stroeh K., Peres S.M., Madeira E.R.M.	Context-aware completion time prediction for business process monitoring	2022	OTM Confederated International Conferences "On the Move to Meaningful Internet Systems"				Real-world	3	Incident, BPIC2013, WFM	
Weinzierl S., Wolf V., Pauli T., Beverungen D., Matzner M.	Detecting temporal workarounds in business processes – A deep-learning-based method for analysing event log data	2022	Journal of Business Analytics	5	1	x	modified Real-world	4	BPIC2012, BPIC2013, BPIC2019, BPIC2020	