Simulation results

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ResNMTF

The effect of increasing the number of biclusters on performance 3 views, ϕ = 200, 3 repetitions.

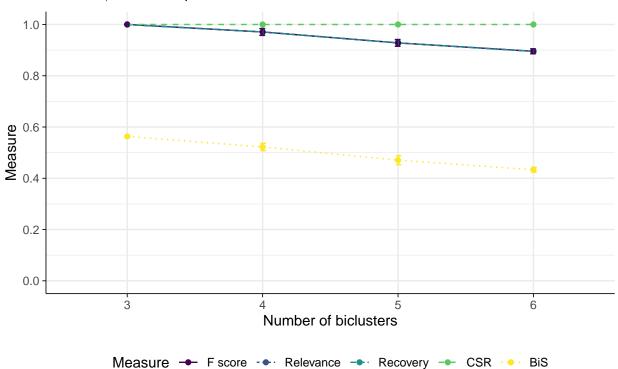


Figure 1: Simulation results for ResNMTF only.

	Number of biclusters			
	3	4	5	6
F score	1.0000 (0.0000)	0.9707 (0.0131)	0.9281 (0.0128)	0.8953 (0.0094)
Relevance	1.0000 (0.0000)	0.9707(0.0131)	0.9281 (0.0128)	$0.8953\ (0.0094)$
Recovery	1.0000 (0.0000)	0.9707 (0.0131)	$0.9281 \ (0.0128)$	$0.8953 \ (0.0094)$
CSR	1.0000 (0.0000)	1.0000 (0.0000)	1.0000 (0.0000)	1.0000 (0.0000)
BiS	$0.5632 \ (0.0017)$	$0.5222 \ (0.0144)$	0.4707 (0.0174)	$0.4334 \ (0.0097)$

^a 3 views, $\phi = 200$, 3 repetitions.

Comparisons

Relevance

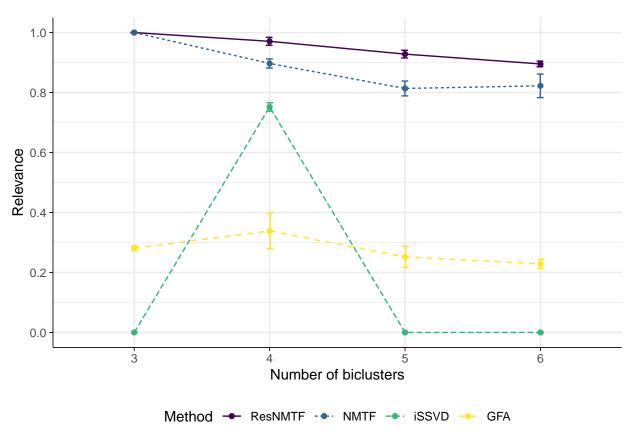


Figure 2: Relevance scores for all methods.

Recovery

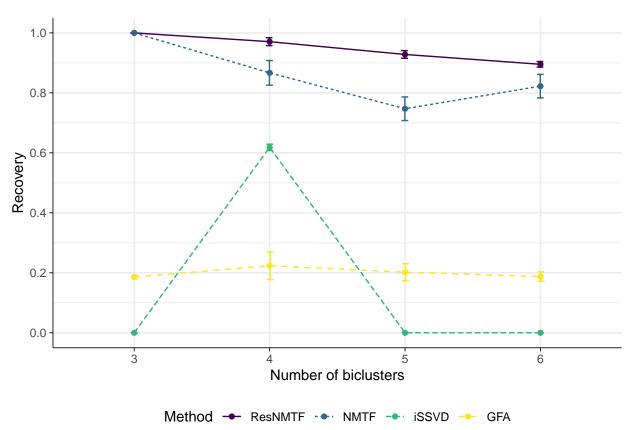


Figure 3: Recovery scores for all methods.

F score

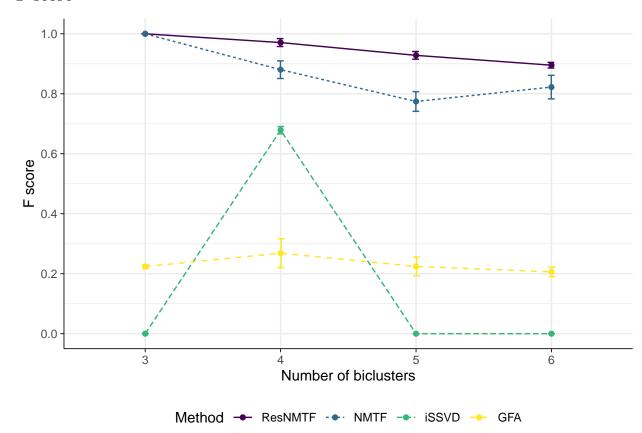


Figure 4: F scores for all methods.

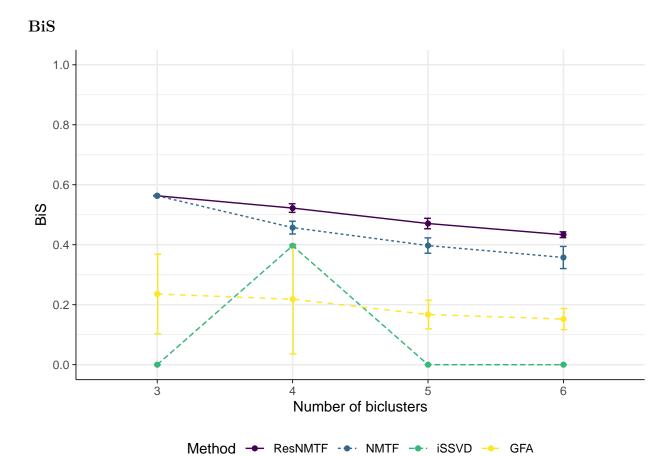
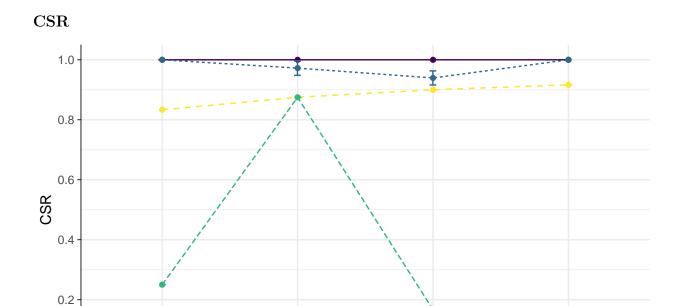


Figure 5: Bisilhouette scores for all methods.



Method → ResNMTF → NMTF → iSSVD → GFA

Number of biclusters

Figure 6: CSR scores for all methods.

Correlation

0.0

	BiS	CSR
F score	0.9763607	0.7824842
Relevance	0.9830486	0.8050462
Recovery	0.9692788	0.7649300

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