





- Large quantity of technical documentation but few studies
  - $\rightarrow$  difficult to deal with a huge variety of symbols
- Method to index technical line drawings based on the notion of  $\mathcal{F}$ -signature
  - $\rightarrow$  low time complexity
  - $\rightarrow$  invariant to fundamental geometric transformations
  - $\rightarrow$  deals easily with complex shapes



































Object	A1	A2	A3	A4	B1	B2	B3	B4
Sink	0.926	0.427	0.505	0.707	0.947	0.765	0.430	0.483
Wash.	0.714	0.326	0.655	0.915	0.846	0.995	0.328	0.633
WC	0.465	0.212	0.959	0.697	0.550	0.647	0.213	0.961
Bath	0.505	0.870	0.239	0.334	0.427	0.362	0.881	0.229
Shower	0.821	0.430	0.457	0.636	0.717	0.672	0.475	0.438

Similarity ratio between samples and main graphic objects







