

For year 2001-2005:

Top 20 most frequent patterns with length 1

⟨data⟩ :1231	⟨information⟩ :418	⟨efficient⟩ :289	⟨queries⟩ :226
⟨based⟩ :764	⟨xml⟩ :383	⟨approach⟩ :276	⟨systems⟩ :225
⟨mining⟩ :665	⟨retrieval⟩ :316	⟨classification⟩ :264	
⟨using⟩ :607	⟨search⟩ :314	⟨system⟩ :243	
⟨web⟩ :591	⟨query⟩ :313	⟨database⟩ :238	
⟨learning⟩ :521	⟨clustering⟩ :307	⟨model⟩ :231	

Top 20 most frequent patterns with length 2

⟨mining data⟩ :297	⟨web data⟩ :74	⟨association mining⟩ :55
⟨based data⟩ :105	⟨web mining⟩ :74	⟨learning data⟩ :54
⟨streams data⟩ :95	⟨management data⟩ :72	⟨efficient data⟩ :53
⟨using data⟩ :88	⟨web based⟩ :70	⟨model based⟩ :53
⟨clustering data⟩ :82	⟨frequent mining⟩ :67	⟨dimensional data⟩ :51
⟨xml data⟩ :82	⟨patterns mining⟩ :62	⟨learning based⟩ :50
⟨clustering based⟩ :75	⟨approach based⟩ :58	

Top 20 most frequent patterns with length 3

⟨asia mining data⟩ :6	⟨cliques data mining⟩ :2	⟨ssp mining data⟩ :2
⟨mdm mining data⟩ :6	⟨drifting mining data⟩ :2	⟨ugly mining data⟩ :2
⟨pacific mining data⟩ :6	⟨fractals mining data⟩ :2	⟨warehouse based data⟩ :2
⟨dm mining data⟩ :3	⟨grids mining data⟩ :2	⟨7th data mining⟩ :1
⟨pakdd mining data⟩ :3	⟨medicine mining data⟩ :2	⟨aaand mining using⟩ :1
⟨academy mining data⟩ :2	⟨ole mining data⟩ :2	⟨aboutness using based⟩ :1
⟨bad mining data⟩ :2	⟨peculiarity data mining⟩ :2	

Top 20 most frequent patterns with length 4

⟨adherence using based data⟩ :1	⟨ids mining based data⟩ :1
⟨admit mining based data⟩ :1	⟨infer mining using data⟩ :1
⟨bibfinder mining using data⟩ :1	⟨lead mining using data⟩ :1
⟨columbia mining based data⟩ :1	⟨meningitis mining using data⟩ :1
⟨cooperatively mining using data⟩ :1	⟨rs mining using data⟩ :1
⟨deployment mining based data⟩ :1	⟨rsbr mining using data⟩ :1
⟨divisive mining using data⟩ :1	⟨simplicial mining using data⟩ :1
⟨effectively mining using data⟩ :1	⟨statminer mining using data⟩ :1
⟨gdt mining using data⟩ :1	⟨ubdm mining based data⟩ :1
⟨generalised mining using data⟩ :1	
⟨ibl mining using data⟩ :1	

For year 2008-2012:

Top 20 most frequent patterns with length 1

⟨data⟩ :1856	⟨information⟩ :637	⟨efficient⟩ :511	⟨multi⟩ :474
⟨based⟩ :1783	⟨analysis⟩ :617	⟨clustering⟩ :505	⟨time⟩ :386
⟨using⟩ :1129	⟨web⟩ :596	⟨retrieval⟩ :493	
⟨learning⟩ :1099	⟨system⟩ :569	⟨model⟩ :484	
⟨mining⟩ :1004	⟨classification⟩ :546	⟨networks⟩ :480	
⟨search⟩ :738	⟨query⟩ :542	⟨approach⟩ :474	

Top 20 most frequent patterns with length 2

⟨mining data⟩ :421	⟨machine learning⟩ :123	⟨learning based⟩ :108
⟨data based⟩ :179	⟨clustering based⟩ :119	⟨research based⟩ :100
⟨system based⟩ :152	⟨using based⟩ :117	⟨analysis based⟩ :95
⟨model based⟩ :136	⟨learning using⟩ :115	⟨learning data⟩ :94
⟨streams data⟩ :127	⟨algorithm based⟩ :113	⟨multi learning⟩ :94
⟨using data⟩ :127	⟨mining based⟩ :111	⟨management data⟩ :93
⟨approach based⟩ :123	⟨analysis data⟩ :110	

Top 20 most frequent patterns with length 3

⟨warehouses based data⟩ :3	⟨albatross using data⟩ :1
⟨modis using data⟩ :2	⟨ale using based⟩ :1
⟨pathway data based⟩ :2	⟨alias learning based⟩ :1
⟨abnormalities learning data⟩ :1	⟨allow based data⟩ :1
⟨abnormalities learning using⟩ :1	⟨alphabets based using⟩ :1
⟨abnormalities using data⟩ :1	⟨alpos learning data⟩ :1
⟨abundant learning based⟩ :1	⟨american learning using⟩ :1
⟨accents learning using⟩ :1	⟨analyst data based⟩ :1
⟨aco using based⟩ :1	⟨ancheng data based⟩ :1
⟨adverse using data⟩ :1	
⟨affected using data⟩ :1	

Top 20 most frequent patterns with length 4

⟨abnormalities learning using data⟩ :1	⟨remaining using data based⟩ :1
⟨bee using data based⟩ :1	⟨reverible learning using data⟩ :1
⟨ciphertext using data based⟩ :1	⟨rotation learning data based⟩ :1
⟨comet learning using data⟩ :1	⟨sigma using data based⟩ :1
⟨froc learning using data⟩ :1	⟨subdivision learning data based⟩ :1
⟨hazards using data based⟩ :1	⟨tailed using data based⟩ :1
⟨homogenous learning using data⟩ :1	⟨topographic learning using data⟩ :1
⟨pathway using data based⟩ :1	⟨vibratory using data based⟩ :1
⟨periodical learning data based⟩ :1	
⟨recipe learning using data⟩ :1	