

ANEXO C

C.1 Archivo de salida de SUBDUE

A continuación se muestra un archivo ejemplo de la salida de SUBDUE.

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Subdue 5.0.8

Parameters:
Input file..... a_log0_f.t2g
Predefined substructure file... none
Output file..... none
Beam width..... 4
Evaluation method..... MDL
'e' edges directed..... true
Iterations..... 3
Limit..... 1000
Minimum size of substructures.. 1
Maximum size of substructures.. 79812
Number of best substructures... 3
Output level..... 2
Allow overlapping instances.... false
Prune..... false
Threshold..... 0.000000
Value-based queue..... false

Read 1 positive graphs

----- Iteration 1 -----

1 positive graphs: 79812 vertices, 63708 edges, 2915293 bits
2202 unique labels

1353 initial substructures

Best 3 substructures:

(1) Substructure: value = 1.21101, pos instances = 12654, neg
instances = 0
Graph(2v,1e):
v 1 ACCESO
v 2 FROM
d 1 2 SITIO_REMOTO

(2) Substructure: value = 1.18202, pos instances = 11293, neg
instances = 0
Graph(2v,1e):
v 1 FROM
v 2 cseg.inaoep.mx
d 1 2 n_f_1

(3) Substructure: value = 1.02295, pos instances = 1652, neg instances
= 0
Graph(2v,1e):
v 1 FROM
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v 2 univ
d 1 2 n_f_2

Compressing graph with best substructure.

Elapsed time for iteration 1 = 2995 seconds.

----- Iteration 2 -----

1 positive graphs: 67158 vertices, 51054 edges, 2359526 bits
2201 unique labels

1353 initial substructures

Best 3 substructures:

(1) Substructure: value = 1.22963, pos instances = 11293, neg
instances = 0
Graph(2v,1e):
v 1 SUB_1
v 2 cseg.inaoep.mx
d 1 2 n_f_1

(2) Substructure: value = 1.02806, pos instances = 1652, neg instances
= 0
Graph(2v,1e):
v 1 SUB_1
v 2 univ
d 1 2 n_f_2

(3) Substructure: value = 1.02266, pos instances = 1350, neg instances
= 0
Graph(2v,1e):
v 1 SUB_1
v 2 Posgrado
d 1 2 n_f_2

Compressing graph with best substructure.

Elapsed time for iteration 2 = 3455 seconds.

----- Iteration 3 -----

1 positive graphs: 55865 vertices, 39761 edges, 1887443 bits
2202 unique labels

1354 initial substructures

Best 3 substructures:

(1) Substructure: value = 1.01079, pos instances = 488, neg instances
= 0
Graph(2v,1e):
v 1 SUB_2
v 2 200.0.113.119
d 1 2 ip

(2) Substructure: value = 1.00922, pos instances = 451, neg instances
= 0
Graph(2v,1e):
v 1 SUB_2

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v 2 ~jmc
d 1 2 n_f_2

(3) Substructure: value = 1.00875, pos instances = 399, neg instances
= 0
Graph(2v,1e):
v 1 SUB_2
v 2 200.65.54.212
d 1 2 ip

Elapsed time for iteration 3 = 476 seconds.

Subdue done (elapsed time = 6931 seconds).
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