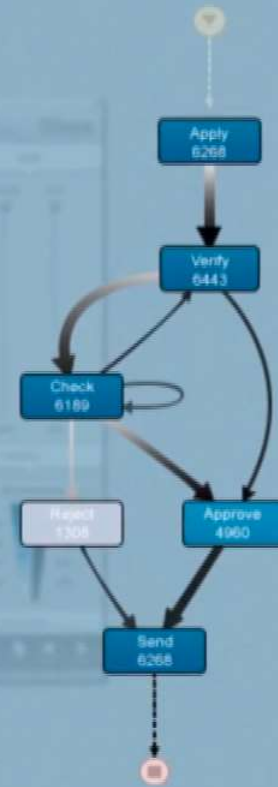


Customer ID	Activity	Start Timestamp	End Timestamp	Channel
137	Apply	2012-01-02 11:32:00.000	2012-01-02 12:02:00.000	Online
137	Apply	2012-01-02 12:19:00.000	2012-01-02 12:48:00.000	Online
119	Verify	2012-01-02 12:30:00.000	2012-01-02 12:48:00.000	Online
138	Apply	2012-01-02 13:11:00.000	2012-01-02 13:24:00.000	Online
119	Verify	2012-01-02 13:26:00.000	2012-01-02 14:46:00.000	Online
118	Verify	2012-01-02 13:28:00.000	2012-01-02 14:20:00.000	Online
117	Verify	2012-01-02 13:30:00.000	2012-01-02 14:28:00.000	Online
139	Apply	2012-01-02 13:33:00.000	2012-01-02 13:51:00.000	Online
140	Apply	2012-01-02 13:33:00.000	2012-01-02 13:56:00.000	Online
141	Apply	2012-01-02 13:35:00.000	2012-01-02 13:54:00.000	Online
142	Apply	2012-01-02 13:39:00.000	2012-01-02 13:58:00.000	Online
124	Verify	2012-01-02 14:18:00.000	2012-01-02 14:21:00.000	Online
144	Apply	2012-01-02 14:20:00.000	2012-01-02 14:53:00.000	Online
122	Verify	2012-01-02 14:30:00.000	2012-01-02 15:44:00.000	Online
145	Apply	2012-01-02 14:33:00.000	2012-01-02 15:07:00.000	Online
147	Apply	2012-01-02 14:36:00.000	2012-01-02 15:03:00.000	Online
120	Verify	2012-01-02 14:39:00.000	2012-01-02 15:07:00.000	Online
148	Apply	2012-01-02 14:47:00.000	2012-01-02 15:01:00.000	Online
129	Verify	2012-01-02 14:58:00.000	2012-01-02 16:00:00.000	Online
143	Apply	2012-01-02 14:47:00.000	2012-01-02 16:13:00.000	Local Branch
127	Verify	2012-01-02 15:33:00.000	2012-01-02 16:47:00.000	Online
153	Apply	2012-01-02 16:10:00.000	2012-01-02 16:44:00.000	Local Branch
135	Verify	2012-01-02 16:37:00.000	2012-01-02 17:50:00.000	Online
154	Apply	2012-01-02 17:00:00.000	2012-01-02 17:53:00.000	Local Branch
132	Verify	2012-01-02 17:08:00.000	2012-01-02 17:58:00.000	Online
168	Apply	2012-01-02 17:28:00.000	2012-01-02 17:58:00.000	Local Branch
157	Apply	2012-01-02 17:28:00.000	2012-01-02 17:44:00.000	Local Branch
158	Apply	2012-01-02 17:44:00.000	2012-01-02 18:01:00.000	Local Branch
126	Apply	2012-01-02 18:08:00.000	2012-01-02 18:21:00.000	Local Branch
161	Apply	2012-01-02 18:07:00.000	2012-01-02 18:49:00.000	Local Branch
162	Apply	2012-01-02 18:32:00.000	2012-01-02 18:52:00.000	Local Branch
134	Verify	2012-01-02 18:44:00.000	2012-01-02 18:52:00.000	Online
163	Apply	2012-01-02 18:53:00.000	2012-01-02 19:10:00.000	Local Branch
166	Apply	2012-01-02 18:10:00.000	2012-01-02 19:33:00.000	Local Branch
168	Apply	2012-01-02 19:34:00.000	2012-01-02 20:00:00.000	Local Branch
137	Verify	2012-01-02 19:52:00.000	2012-01-02 20:04:00.000	Online
169	Apply	2012-01-02 19:51:00.000	2012-01-02 20:27:00.000	Local Branch
138	Verify	2012-01-02 20:08:00.000	2012-01-02 21:18:00.000	Online
136	Verify	2012-01-02 20:10:00.000	2012-01-02 20:38:00.000	Online
142	Verify	2012-01-02 20:10:00.000	2012-01-02 20:39:00.000	Online
141	Verify	2012-01-02 20:16:00.000	2012-01-02 21:03:00.000	Online
140	Verify	2012-01-02 20:22:00.000	2012-01-02 20:47:00.000	Online
171	Apply	2012-01-02 21:00:00.000	2012-01-02 21:19:00.000	Local Branch
147	Apply	2012-01-02 21:28:00.000	2012-01-02 22:09:00.000	Online
144	Verify	2012-01-02 21:30:00.000	2012-01-02 22:04:00.000	Online
172	Apply	2012-01-02 21:47:00.000	2012-01-02 22:07:00.000	Local Branch



FOLYAMATBÁNYÁSZAT 4

Logból modell, ProM használata

NAPLÓFÁJL EGYSZERŰSÍTÉSE

order number	activity	timestamp	user	product	quantity
9901	register order	22-1-2014@09.15	Sara Jones	iPhone5S	1
9902	register order	22-1-2014@09.18	Sara Jones	iPhone5S	2
9903	register order	22-1-2014@09.27	Sara Jones	iPhone4S	1
9901	check stock	22-1-2014@09.49	Pete Scott	iPhone5S	1
9901	ship order	22-1-2014@10.11	Sue Fox	iPhone5S	1
9903	check stock	22-1-2014@10.34	Pete Scott	iPhone4S	1
9901	handle payment	22-1-2014@10.41	Carol Hop	iPhone5S	1
9902	check stock	22-1-2014@10.57	Pete Scott	iPhone5S	2

[<register_order, check_stock, ship_order, handle_payment>, <register_order, check_stock, cancel_order>, <register_order, check_stock>, ...]

Egyszerűsítsük a rendelkezésre álló naplófájlt, hogy egy WF-net előállítható legyen. Csak az esetenkénti eseménylefutási sorrendek fontosak.

LOG, TRACE-EK

$$L = [\langle a, b, c, d \rangle^3, \langle a, c, b, d \rangle^2, \langle a, e, d \rangle]$$

tevékenység trace előfordulási mennyisége a logban

trace

log

Az esemény log **trace**-eknek a halmaza (ugyanaz a trace többször is megjelenhet a logban).

A trace **tevékenység**ek neveinek sorozatát tartalmazza (minden egyéb tulajdonságtól most elvonatkoztatunk).

A cél, hogy a rendelkezésre álló trace-ekből felépítsünk egy olyan **modell**t, amelyre minden trace illeszkedik.

AZ ALFA ALGORITMUS

Legyen W munkafolyamat napló T műveletekkel. $\alpha(W)$ a következő képen van definiálva:

1. $T_W = \{ t \in T \mid \exists \sigma \in W \ t \in \sigma \}$ műveletek halmaza
2. $T_I = \{ t \in T \mid \exists \sigma \in W \ t = \textit{first}(\sigma) \}$ kezdő műveletek halmaza
3. $T_O = \{ t \in T \mid \exists \sigma \in W \ t = \textit{last}(\sigma) \}$ befejező műveletek halmaza
4. $X_W = \{ (A, B) \mid A \subseteq T_W \wedge A \neq \emptyset \wedge B \subseteq T_W \wedge B \neq \emptyset \wedge \forall a \in A \forall b \in B \ a \rightarrow_W b \wedge \forall a_1, a_2 \in A \ a_1 \#_W a_2 \wedge \forall b_1, b_2 \in B \ b_1 \#_W b_2 \}$
Vesszük a T_W két nem üres részalmazát
5. $Y_W = \{ (A, B) \in X \mid \forall (A', B') \in X \ A \subseteq A' \wedge B \subseteq B' \Rightarrow (A, B) = (A', B') \}$
Töröljük a nem maximális párokat
6. $P_W = \{ p_{(A,B)} \mid (A, B) \in Y_W \} \cup \{ i_W, o_W \}$ Definiáljuk a helyek halmazát
7. $F_W = \{ (a, p_{(A,B)}) \mid (A, B) \in Y_W \wedge a \in A \} \cup \{ (p_{(A,B)}, b) \mid (A, B) \in Y_W \wedge b \in B \} \cup \{ (i_W, t) \mid t \in T_I \} \cup \{ (t, o_W) \mid t \in T_O \}$ Meghatározzuk a folyamatbeli relációkat
8. $\alpha(W) = (P_W, T_W, F_W)$ az Alpha algoritmussal előállított modell

HASZNÁLT JELÖLÉSEK

>	direkt sorrend	$x > y$	az x esetet közvetlenül az y eset követi
→	okozati viszony	$x \rightarrow y$	ha $x > y$ és nem $y > x$
	párhuzamosság	$x y$	ha $x > y$ és $y > x$
#	választás	$x \# y$	ha nem $x > y$ és nem $y > x$

LOGBÓL FOLYAMATI MODELL FELEPÍTÉSE

$L = [\langle a, b, c, d, e, f, b, d, c, e, g \rangle, \langle a, b, d, c, e, g \rangle^8, \langle a, b, c, d, e, f, b, c, d, e, f, b, d, c, e, g \rangle]$

a>b d>e

b>c d>c

b>d e>f

c>d e>g

c>e f>b

1.

a→b

b→c

b→d

d→e

e→f

f→b

c→e

e→g

2.

c||d

d||c

3.

a#c b#e

a#d b#g

a#e c#f

a#f c#g

a#g d#f

d#g

f#g

4.

Ellenőrzéshez felrajzoljuk a loghoz és a modellhez is a lábnyom táblázatot. Ha megegyeznek, akkor jól használtuk az Alpha algoritmust.

Lábnyom táblázat loghoz:

	a	b	c	d	e	f	g
a	#	→	#	#	#	#	#
b	←	#	→	→	#	←	#
c	#	←	#		→	#	#
d	#	←		#	→	#	#
e	#	#	←	←	#	→	→
f	#	→	#	#	←	#	#
g	#	#	#	#	←	#	#

$L = [\langle \underline{a}, b, c, d, e, f, b, d, c, e, g \rangle, \langle a, b, d, c, e, g \rangle^8, \langle a, b, c, d, e, f, b, c, d, e, f, b, d, c, e, g \rangle]$

$L = [\langle a, b, c, d, e, f, b, d, c, e, g \rangle, \langle a, b, d, c, e, g \rangle^8, \langle a, b, c, d, e, f, b, c, d, e, f, b, d, c, e, g \rangle]$

1. $T_L = \{a, b, c, d, e, f, g\}$
2. $T_I = \{a\}$
3. $T_O = \{g\}$
4. $X_L = \{(\{a\}, \{b\}), (\{b\}, \{c\}), (\{b\}, \{d\}), (\{d\}, \{e\}), (\{e\}, \{f\}), (\{f\}, \{b\}), (\{c\}, \{e\}), (\{e\}, \{g\}), (\{e\}, \{f, g\}), (\{a, f\}, \{b\})\}$

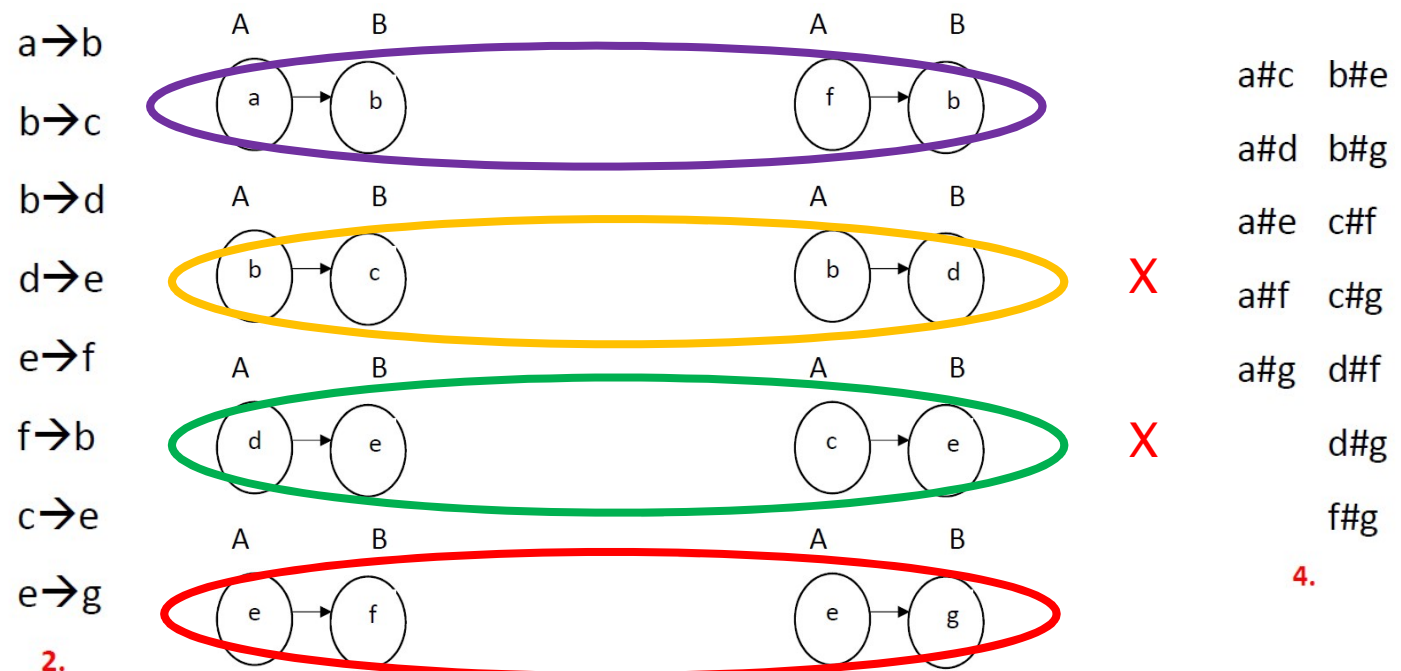
2-es táblázatból:

$a \rightarrow b, f \rightarrow b \rightarrow \{a, f\} \rightarrow \{b\}$

$b \rightarrow c, b \rightarrow d \rightarrow X$, mivel $c \# d$ nincs a 4. táblázatban

$d \rightarrow e, c \rightarrow e \rightarrow X$, mivel $d \# c$ nincs a 4. táblázatban

$e \rightarrow f, e \rightarrow g \rightarrow \{e\} \rightarrow \{f, g\}$



2.

$$4. X_L = \{(\{a\}, \{b\}), (\{b\}, \{c\}), (\{b\}, \{d\}), (\{d\}, \{e\}), (\{e\}, \{f\}), (\{f\}, \{b\}), (\{c\}, \{e\}), (\{e\}, \{g\}), (\{e\}, \{f, g\}), (\{a, f\}, \{b\})\}$$

5. A nem maximális (A,B) párok törlése:

$$Y_L = \{(\{b\}, \{c\}), (\{d\}, \{e\}), (\{b\}, \{d\}), (\{c\}, \{e\}), (\{e\}, \{f, g\}), (\{a, f\}, \{b\})\} \cup \{i_L, o_L\}$$

P₁
P₂
P₃
P₄
P₅
P₆
T₁={a}
T₀={g}

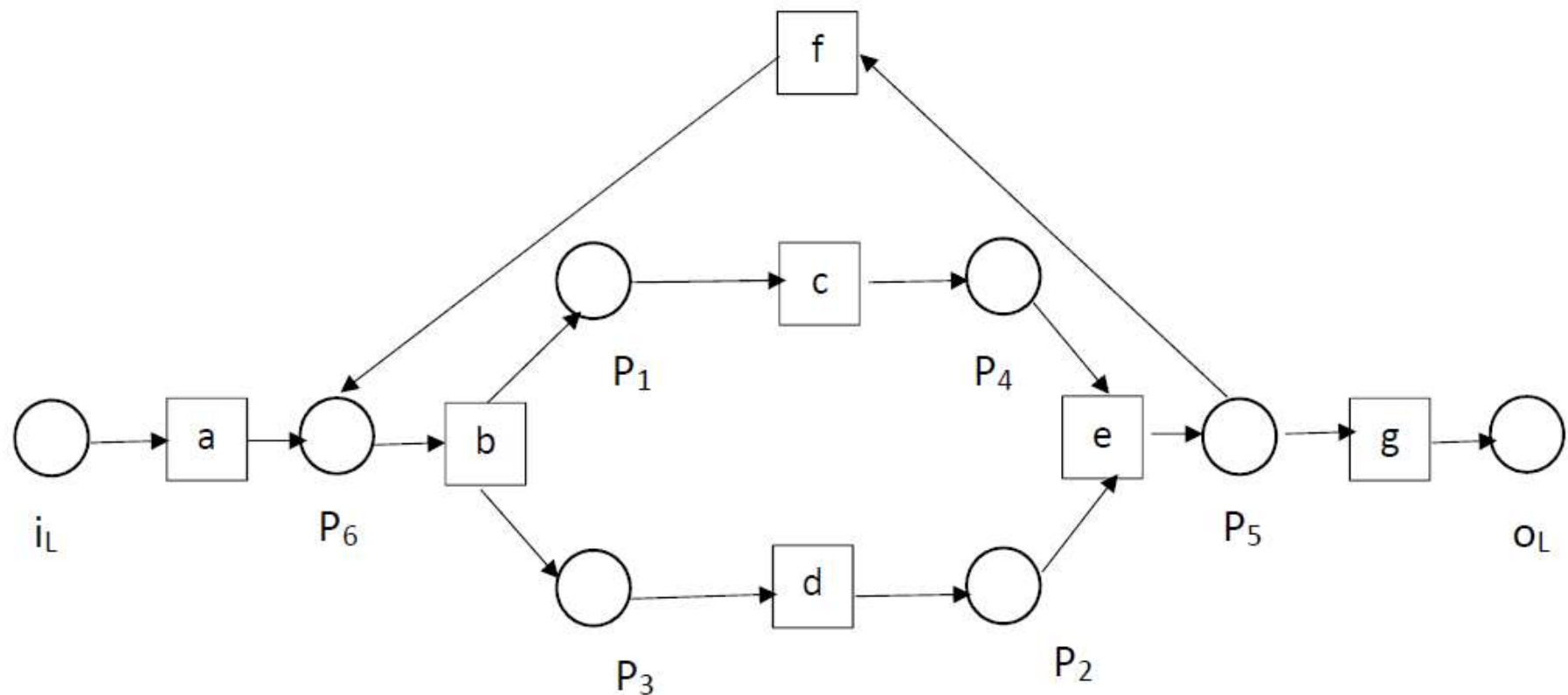
$$6. FL = \{(i_L, a), (a, P_6), (P_6, b), (b, P_1), (b, P_3), (P_1, c), (P_3, d), (c, P_4), (d, P_2), (P_4, e), (P_2, e), (e, P_5), (P_5, f), (P_5, g), (f, P_6), (g, o_L)\}$$

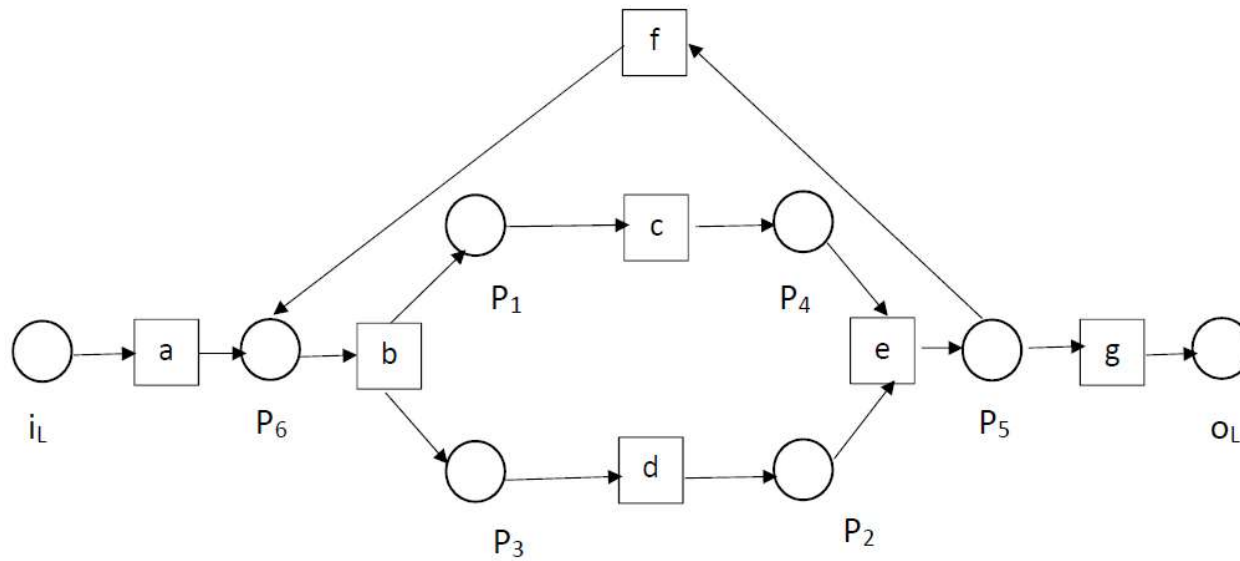
5. A nem maximális (A,B) párok törlése:

$$Y_L = \{(\{b\}, \{c\}), (\{d\}, \{e\}), (\{b\}, \{d\}), (\{c\}, \{e\}), (\{e\}, \{f, g\}), (\{a, f\}, \{b\})\} \cup \{i_L, o_L\}$$

P₁ P₂ P₃ P₄ P₅ P₆

6. FL = { (i_L, a), (a, P₆), (P₆, b), (b, P₁), (b, P₃), (P₁, c), (P₃, d), (c, P₄), (d, P₂), (P₄, e), (P₂, e), (e, P₅), (P₅, f), (P₅, g), (f, P₆), (g, o_L) }



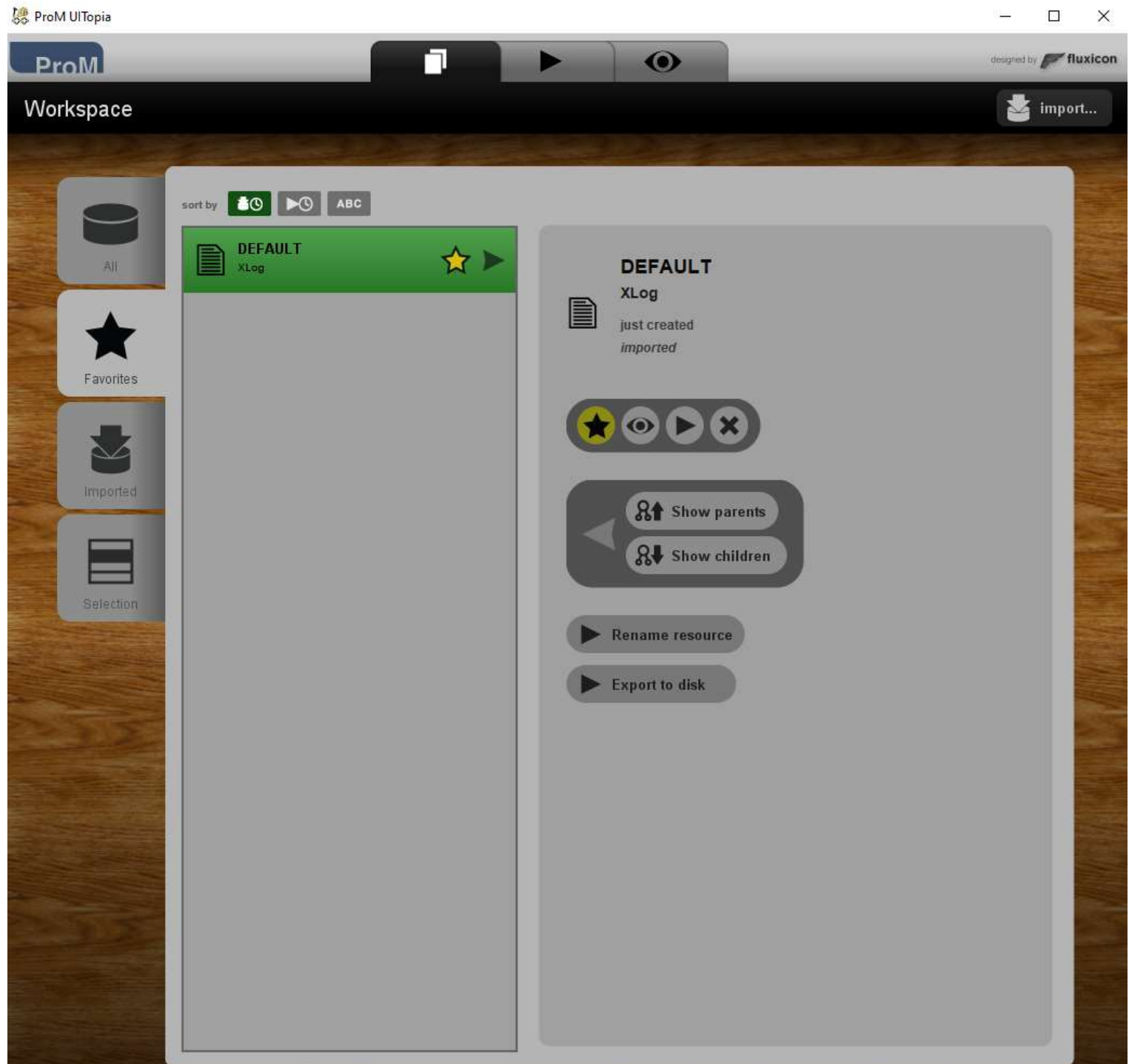


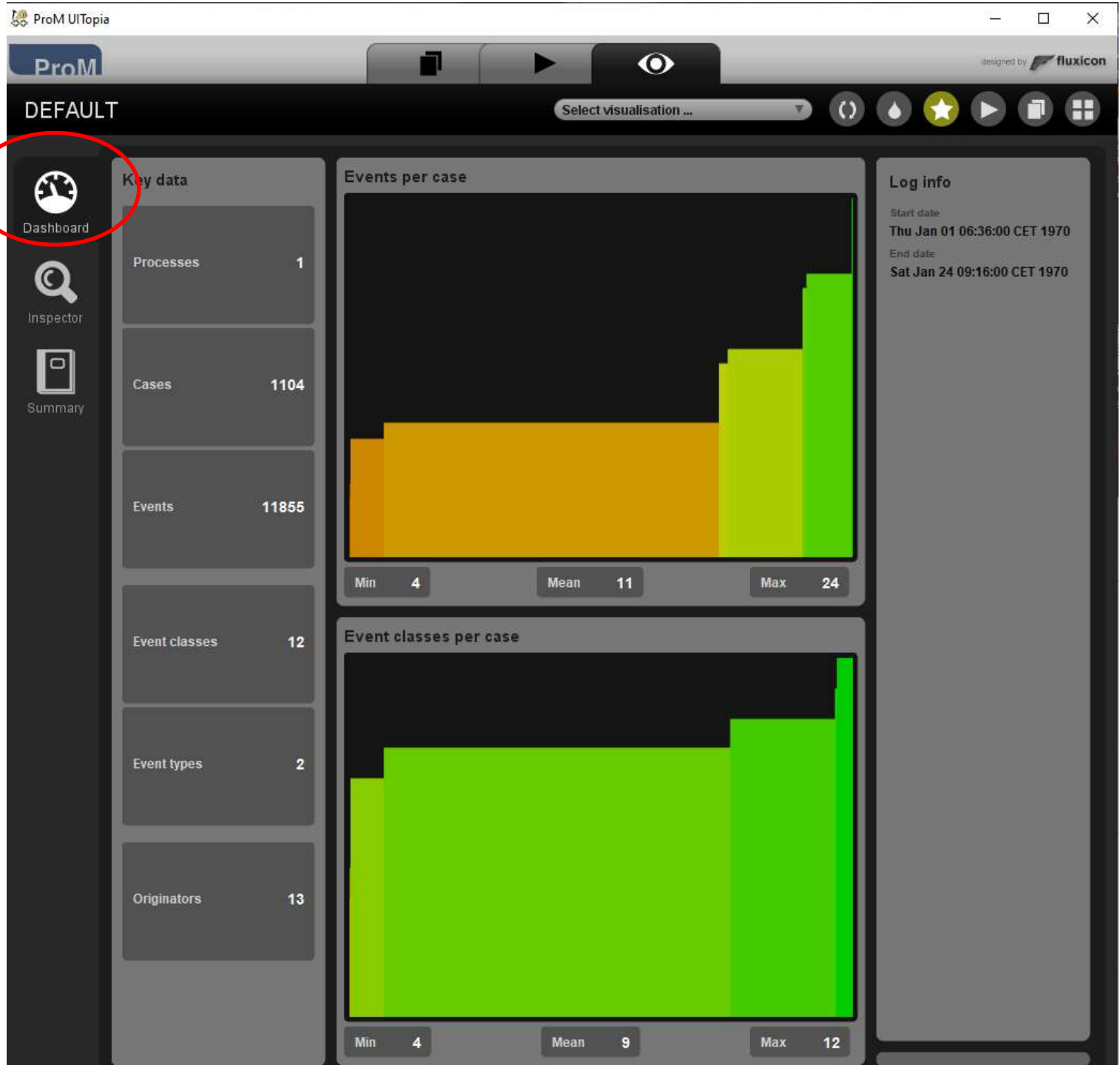
Lábnyom táblázat loghoz és modellhez:

	a	b	c	d	e	f	g
a	# #	→ →	# #	# #	# #	# #	# #
b	← ←	# #	→ →	→ →	# #	← ←	# #
c	# #	← ←	# #	 	→ →	# #	# #
d	# #	← ←	 	# #	→ →	# #	# #
e	# #	# #	← ←	← ←	# #	→ →	→ →
f	# #	→ →	# #	# #	← ←	# #	# #
g	# #	# #	# #	# #	← ←	# #	# #

A ProM elindítása után az Import paranccsal betöltjük a feldolgozni kívánt fájlt

pl.
repairExample.
mxml





Alapadatok megjelenítése a loghoz

ProM UI Topia

ProM

DESIGNED BY fluxicon

DEFAULT

Select visualisation ...

Log inspector | Browser | Explorer | Log Attributes

Dashboard

Inspector

Summary

Instances

1
10
100
1000
1001
1002
1003
1004
1005
1006
1007
1008
1009
101
1010
1011
1012
1013
1014
1015
1016
1017
1018
1019
102
1020
1021
1022
1023
1024
1025
1026
1027
1028
1029
103
1030
1031
1032
1033
1034
1035
1036
1037
1038
1039
104

1001

8 events

Register
#1 complete @System
22.01.1970 07:51:00.000

Analyze Defect
#2 start @Tester3
22.01.1970 07:51:00.000

Analyze Defect
#3 complete @Tester3
22.01.1970 07:56:00.000

Repair (Complex)
#4 start @SolverC3
22.01.1970 08:06:00.000

Inform User
#5 complete @System
22.01.1970 08:35:00.000

Repair (Complex)
#6 complete @SolverC3
22.01.1970 08:54:00.000

Test Repair
#7 start @Tester5
22.01.1970 08:54:00.000

Test Repair
#8 complete @Tester5
22.01.1970 09:00:00.000

Attributes for case 1001

LITERAL TYPED
conceptname: 1001
description: Simulated process instance

Trace-ek és azok gyakorisága, tartalma.

ProM UI Topia

ProM

DESIGN BY fluxicon

DEFAULT

Select visualisation ...

Log inspector

Browser Explorer Log Attributes

Dashboard

Inspector

Summary

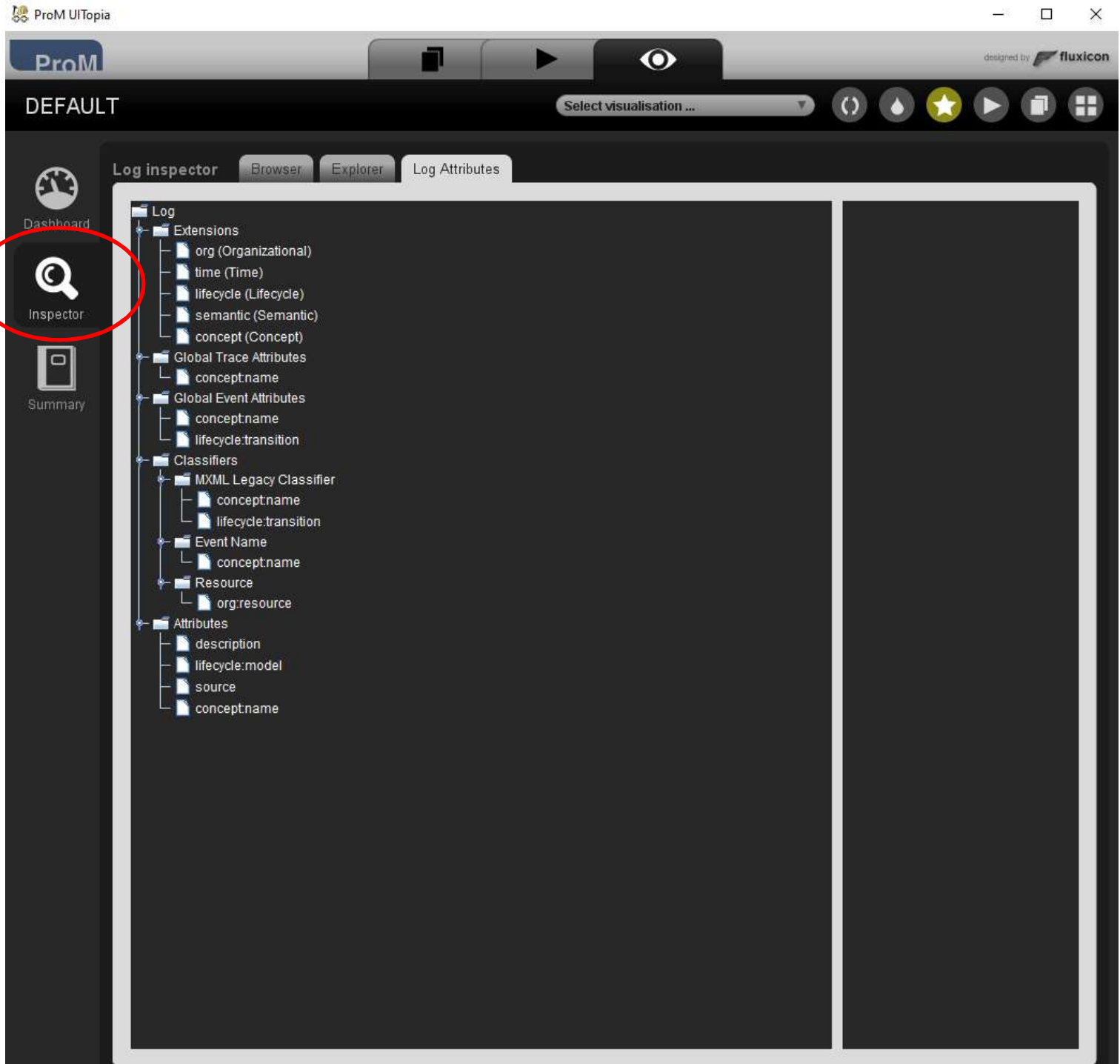
Process Instance	Event Count	Frequency
1	9 events	Highly frequent
10	14 events	Highly frequent
100	9 events	Highly frequent
1000	9 events	Highly frequent
1001	8 events	Highly frequent
1002	8 events	Highly frequent
1003	13 events	Highly frequent
1004	8 events	Highly frequent
1005	8 events	Highly frequent

Process instances are arranged vertically, shown as streams of triangular events. The color of events describes their frequency (green is highly frequent, red is low-frequent). Hover the mouse over events to view more information.

A folyamat példányok függőlegesen vannak elrendezve, háromszögek jelzik az eseményeket, amelyek folyamaként jelennek meg.

Az események színe leírja azok gyakoriságát.

(További információk megtekintéséhez az egeret az események fölé kell vinni.)



A log
struktúrája

ProM UI Topia

ProM

DEFAULT

Select visualisation ...

Dashboard

Inspector

Summary

Log Summary

save HTML...

Log Summary

Total number of process instances: **1104**
Total number of events: **11855**

MXML Legacy Classifier

Event classes defined by MXML Legacy Classifier
All events

Total number of classes: **12**

Class	Occurrences (absolute)	Occurrences (relative)
Test Repair+complete	1508	12,72%
Test Repair+start	1508	12,72%
Register+complete	1104	9,313%
Analyze Defect+complete	1104	9,313%
Analyze Defect+start	1104	9,313%
Inform User+complete	1102	9,296%
Archive Repair+complete	1000	8,435%
Repair (Simple)+start	785	6,622%
Repair (Simple)+complete	785	6,622%
Repair (Complex)+start	725	6,116%
Repair (Complex)+complete	724	6,107%
Restart Repair+complete	406	3,425%

Start events

Total number of classes: **1**

Class	Occurrences (absolute)	Occurrences (relative)
Register+complete	1104	100,0%

Összefoglaló
adatok a logban
található
adatokról

ProM UI Topia

ProM

DESIGN BY fluxicon

DEFAULT

Select visualisation ...

Log Summary

save HTML...

Dashboard

Inspector

Summary

Event Name

Event classes defined by Event Name

All events

Total number of classes: 8

Class	Occurrences (absolute)	Occurrences (relative)
Test Repair	3016	25,441%
Analyze Defect	2208	18,625%
Repair (Simple)	1570	13,243%
Repair (Complex)	1449	12,223%
Register	1104	9,313%
Inform User	1102	9,296%
Archive Repair	1000	8,435%
Restart Repair	406	3,425%

Start events

Total number of classes: 1

Class	Occurrences (absolute)	Occurrences (relative)
Register	1104	100,0%

End events

Total number of classes: 4

Class	Occurrences (absolute)	Occurrences (relative)
Archive Repair	1000	90,58%
Test Repair	75	6,793%
Inform User	27	2,446%
Repair (Complex)	2	0,181%

Resource

DEFAULT

Select visualisation ...



Dashboard



Inspector



Summary

Log Summary

save HTML...

Resource

Event classes defined by Resource
All events

Total number of classes: 13

Class	Occurrences (absolute)	Occurrences (relative)
System	3612	30,468%
Tester3	910	7,676%
Tester2	904	7,625%
Tester1	902	7,609%
Tester6	876	7,389%
Tester5	844	7,119%
Tester4	788	6,647%
SolverS1	592	4,994%
SolverC1	534	4,504%
SolverC2	514	4,336%
SolverS2	498	4,201%
SolverS3	480	4,049%
SolverC3	401	3,383%

Start events

Total number of classes: 1

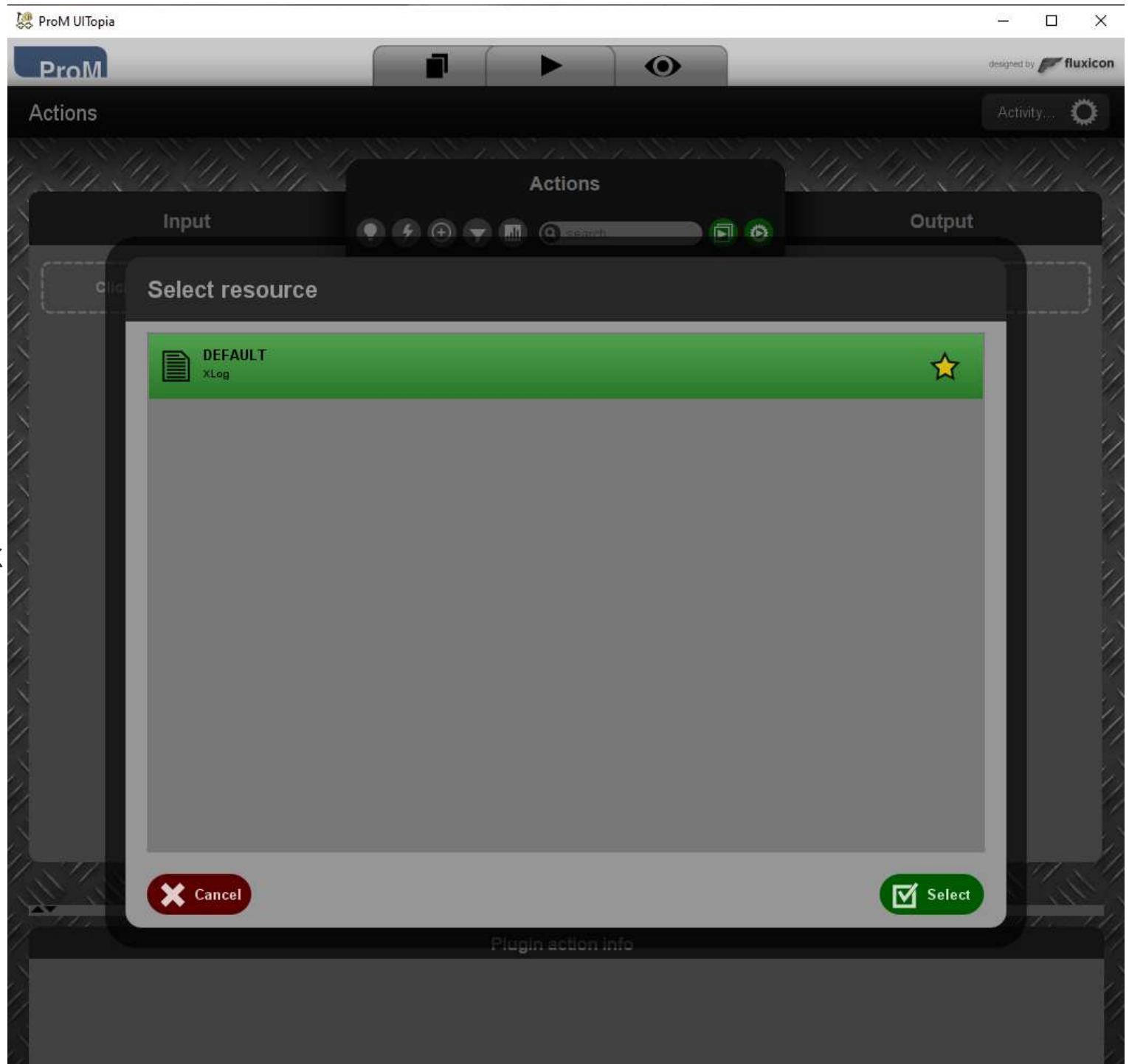
Class	Occurrences (absolute)	Occurrences (relative)
System	1104	100,0%

End events

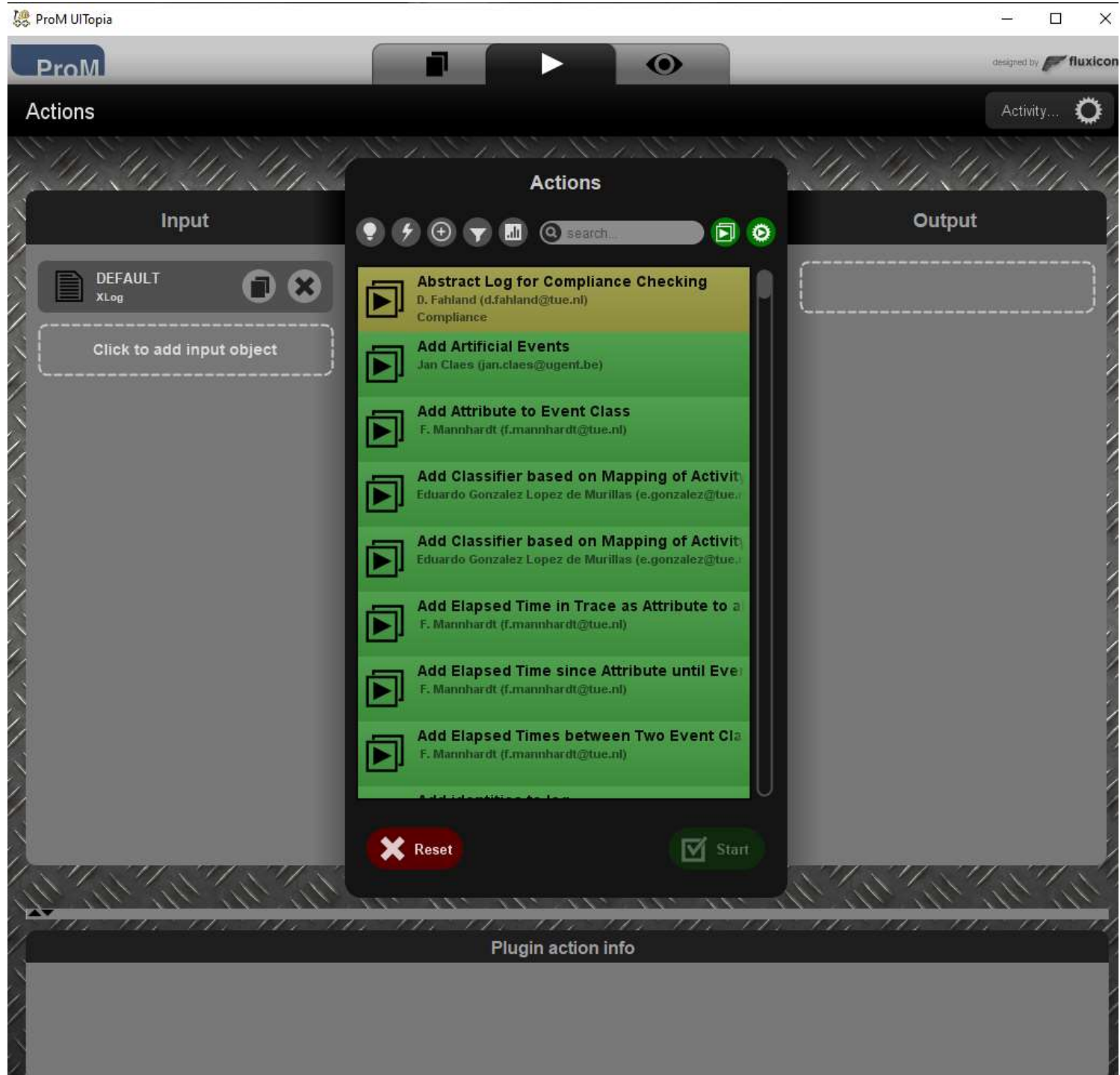
Total number of classes: 9

Class	Occurrences (absolute)	Occurrences (relative)
System	1027	93,025%

Miután a rendszer felismerte a fájl típusát megjeleníthetjük a felhasználható pluginek listáját, milyen Action-ek érhetőek el



A listából számos plugin kiválasztható és végrehajtható. A képernyő alján, az infó boxban rövid leírás olvasható és utalás arra, hogy hol olvashatunk a plugin-ről részletesebben.



Átmenet rendszer előállítás: a gráfban végig követhetők az egyes állapotok, mely állapotból mely művelet hatására jutottunk más állapotba, leolvashatók a lehetséges lefutások (tarcek).

The screenshot displays the ProM software interface. At the top, the title bar reads 'ProM UI Topia' and 'ProM'. The main window is titled 'Actions' and contains a central dialog box with the same title. The dialog box has a search bar and a list of actions. The actions listed are:

- Mine Pareto front with ETMd (J.C.A.M. Buijs)
- Mine Pareto front with ETMd in Live mode (J.C.A.M. Buijs)
- Mine Pareto front with ETMr (J.C.A.M. Buijs)
- Mine Pareto front with ETMr in Live mode (J.C.A.M. Buijs)
- Mine Transition System (H.M.W. Verbeek)
- Multi-perspective Process Explorer - Fitne (F. Mannhardt)
- Multi-perspective Process Explorer - Perfo (F. Mannhardt)
- Multi-perspective Process Explorer - Preci (F. Mannhardt)

At the bottom of the dialog are 'Reset' and 'Start' buttons. The background interface shows an 'Input' panel with a 'DEFAULT XLog' file and an 'Output' panel with several results: 'Mined Transition System', 'Weights', 'Start states', and 'Accept states'. A 'Plugin action info' panel at the bottom provides details for the 'Mine Transition System' plugin.

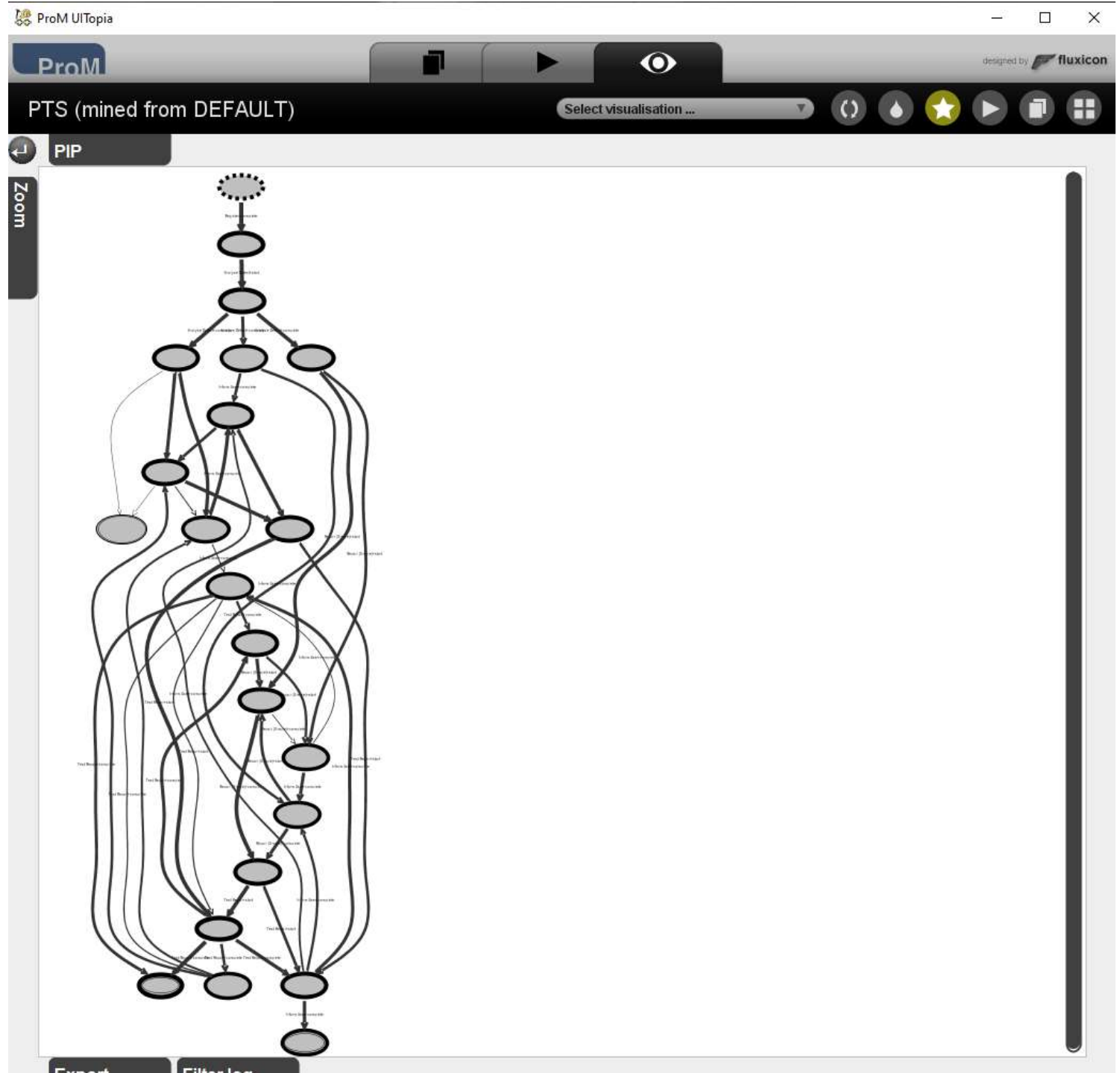
Plugin action info

Mine Transition System

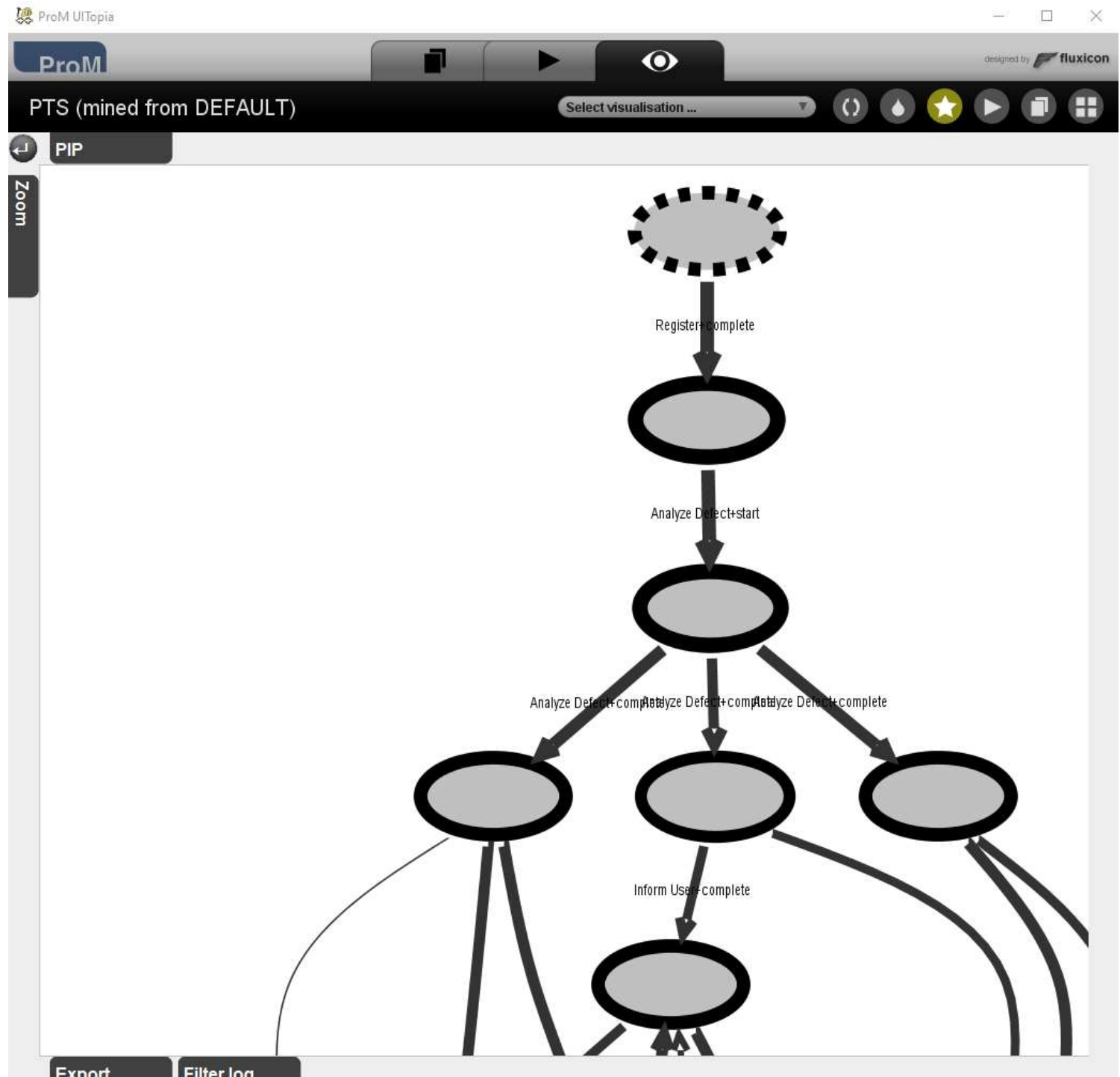
Package: TransitionSystems
Author: [H.M.W. Verbeek](#)
Categories: Discovery

Discovers a transition system from the given log. A state in the transition system is a combination of (1) a collection of activities, (2) a collection of activities yet to be seen, and (3) a mapping of activities to their actual values. The collections include sets, and a threshold for the distance to the current event can be specified. The transition system can be modified in some ways before it is returned.

Átmenet
rendszerhez
tartozó gráf



Átmenet rendszer egy részlete kinagyítva a Zoom funkcióval. A PIP lehetőséggel ablakot nyithatunk a gráfra és végig pásztázhatjuk.



Az Alpha Miner kiválasztása a felkínált pluginek közül

The screenshot displays the ProM software interface. At the top, the title bar reads 'ProM UI Topia' and 'ProM'. Below the title bar, there are navigation icons (back, play, eye) and a 'fluxicon' logo. The main area is divided into three panels: 'Input', 'Actions', and 'Output'. The 'Input' panel shows a 'DEFAULT XLog' file. The 'Actions' panel is a central menu with a search bar and a list of plugins. The 'Output' panel shows 'Petri net' and 'Marking' options. The 'Alpha Miner' plugin is highlighted in green in the Actions list. At the bottom, there is a 'Plugin action info' section for 'Alpha Miner'.

Input

DEFAULT
XLog

Actions

- Align Log And Model for Repair (find loops)
D. Fahland (d.fahland@tue.nl)
ModelRepair
- Align Log And Model for Repair (global cos...
D. Fahland (d.fahland@tue.nl)
ModelRepair
- Align Log to Model
D. Fahland (d.fahland@tue.nl)
Uma
- Alpha Miner**
S.J. van Zelst, B.F. van Dongen, L.M.A. Tonnaer (s.j.v.z...)
- Animate Event Log in Fuzzy Instance
H. Verbeek (h.m.w.verbeek@tue.nl)
Fuzzy
- Anonymize Event Log
F. Mannhardt (f.mannhardt@tue.nl)
- Anonymize: Obfuscate event attribute nam...
F. Mannhardt (f.mannhardt@tue.nl)
- Anonymize: Obfuscate literal event attribut...
F. Mannhardt (f.mannhardt@tue.nl)

Output

- Petri net
Petri net
- Marking
Marking

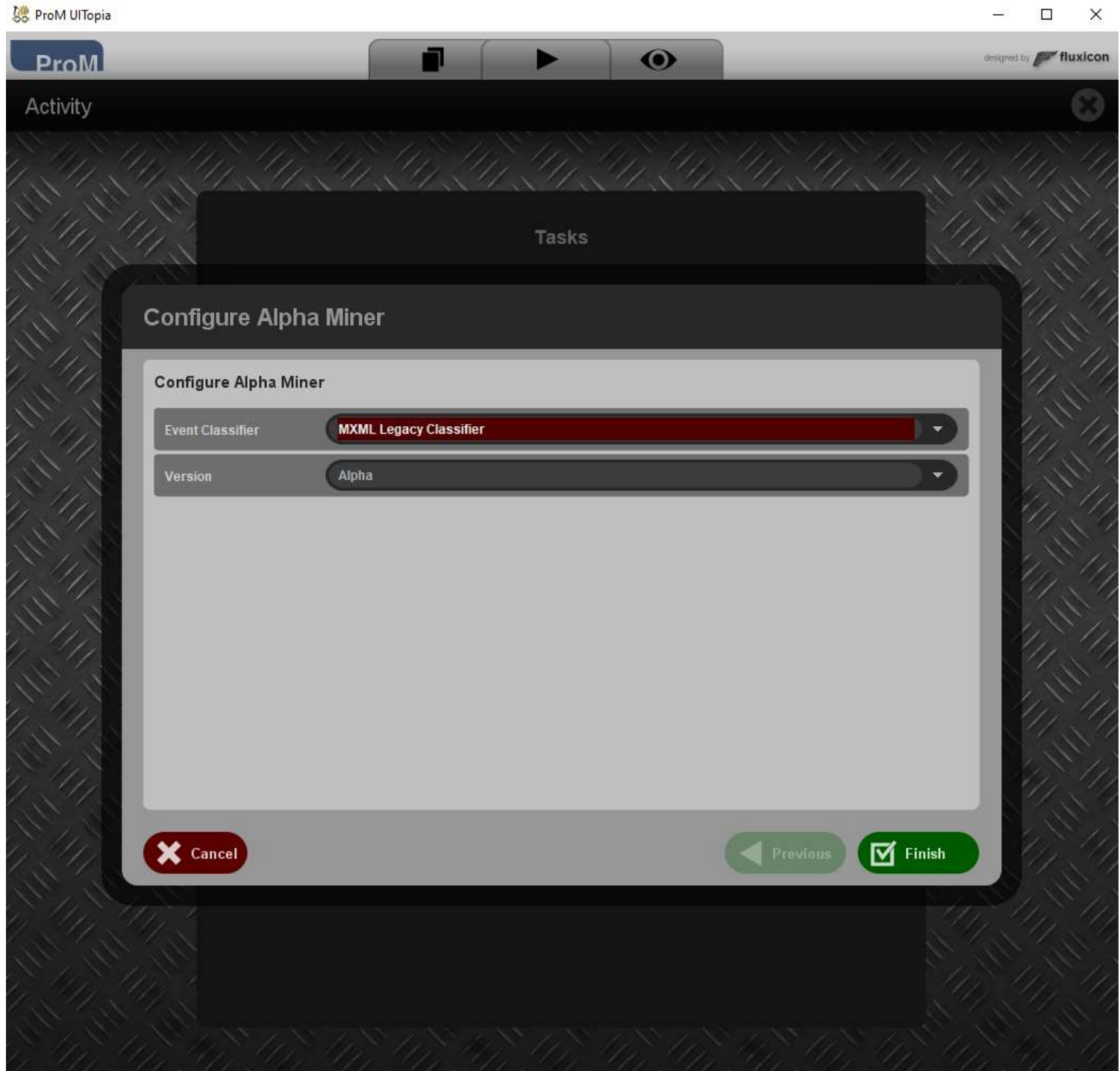
Plugin action info

Alpha Miner

Author: S.J. van Zelst, B.F. van Dongen, L.M.A. Tonnaer
Categories: Discovery

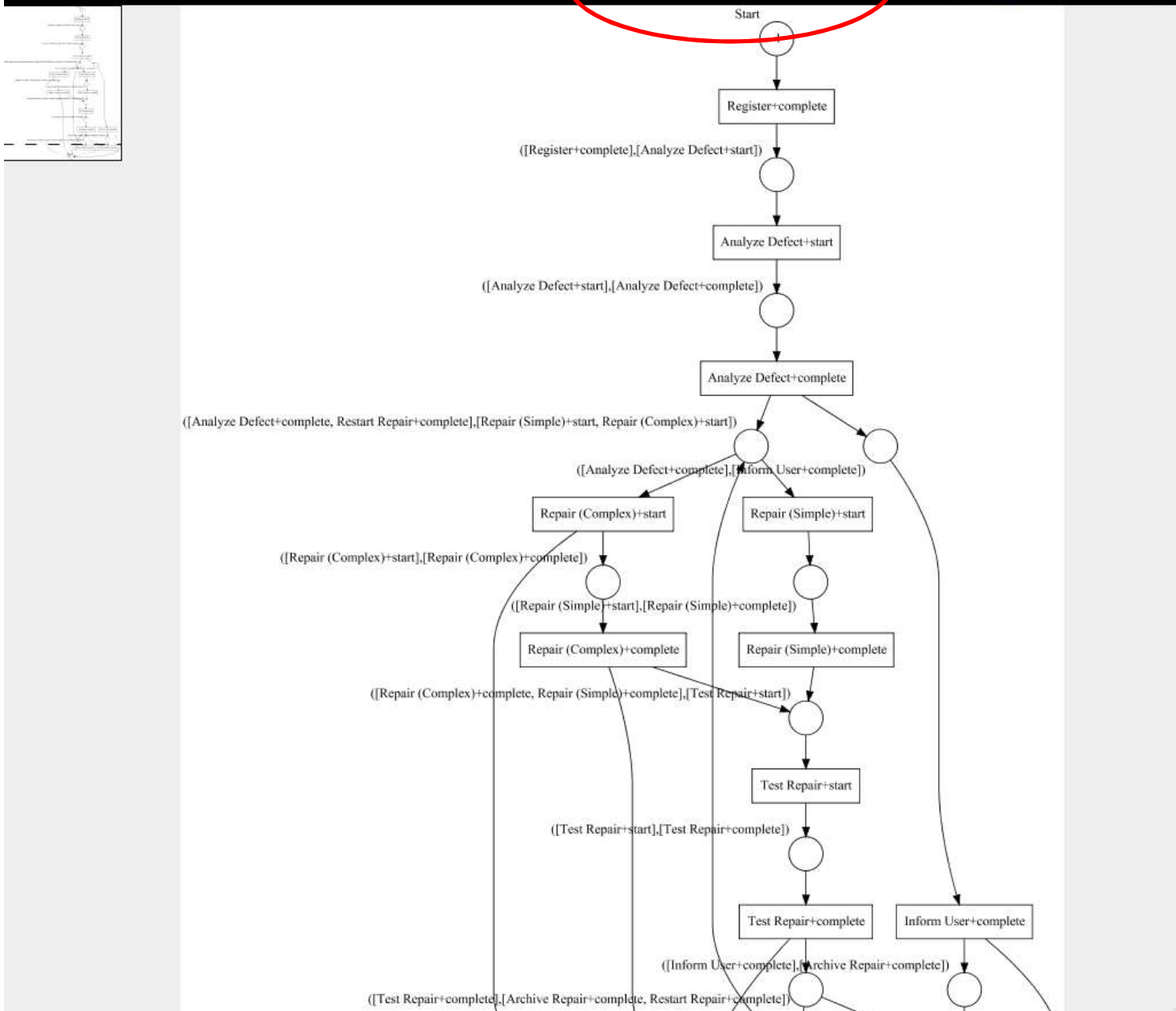
The Alpha Miner Plugin implements a collection of algorithms: the "Alpha Family". All algorithms take an event log as an input Petri net with an initial marking. The algorithms are based on papers:

- Alpha (Classic): "Workflow Mining: Discovery Process Mode Logs"; Aalst, W.M.P. van der, Weijters, A.J.M.M., and, Maruster



Az Alpha algoritmus konfigurálása (az algoritmusnak vannak már különböző változatai)

Az Alpha algoritmussal kibányászott modell más megjelenítésben.



Másik discovery plugin: Mine for a Fuzzy Model

The screenshot shows the ProM UI with the Actions dialog box open. The dialog box has a search bar and a list of plugins. The 'Mine for a Fuzzy Model' plugin is highlighted in green. Below the list are 'Reset' and 'Start' buttons. The background shows the 'Input' and 'Output' panels, with 'DEFAULT XLog' in the input and 'Fuzzy Model MetricsRepository' in the output. The bottom panel shows the 'Plugin action info' for the selected plugin.

Actions

Input: DEFAULT XLog

Output: Fuzzy Model MetricsRepository

Actions List:

- F. Mannhardt, S.J. van Zelst (s.j.v.zelst@tue.nl)
- Mine Configured Process Tree with ETMc (J.C.A.M.Buijs (j.c.a.m.buijs@tue.nl) EvolutionaryTreeMiner)
- Mine Configured Process Tree with ETMc (J.C.A.M.Buijs (j.c.a.m.buijs@tue.nl) EvolutionaryTreeMiner)
- Mine directly follows model (S.J.J. Leemans (s.leemans@qut.edu.au))
- Mine directly follows model using DFMM (S.J.J. Leemans (s.leemans@qut.edu.au))
- Mine for a Fuzzy Model (H.M.W. Verbeek (h.m.w.verbeek@tue.nl) Fuzzy)**
- Mine for a Handover-of-Work Social Network (M. Song (m.song@unist.ac.kr))
- Mine for a Heuristics Net using Heuristics (A.J.M.M. Weijters (a.j.m.m.weijters@tue.nl))
- Mine for a Heuristics Net using Heuristics (A.J.M.M. Weijters (a.j.m.m.weijters@tue.nl))

Buttons: Reset Start

Plugin action info

Mine for a Fuzzy Model

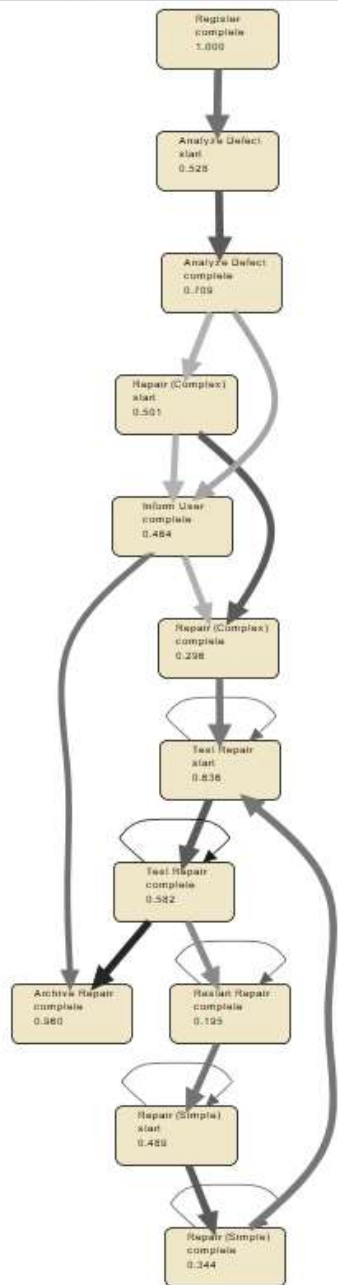
Package: Fuzzy
Author: [H.M.W. Verbeek](#)
Categories: Discovery

Discovers a fuzzy model from the given log. Please note that : really an entire family of fuzzy instances, and that the visualize typically shows only a single fuzzy instance.

Fuzzy Model

PIP

Zoom



Fuzzy Model

PIP

Zoom

