

#### A Persistent Naming System Based on Graph Transformation Rules

David Marcheix, Xavier Skapin, Anaïs Cardot, Nadine Dieudonné-Glad

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## A Persistent Naming System Based on Graph Transformation Rules Marcheix D., Cardot A., Skapin X., Dieudonné-Glad N. Contact email : anais,cardot@univ-poitiers,fr (optional)

Keywords: Persistent Naming, Reevaluation, G-Maps, Jerboa, Transformation Rules

Objective

**Generalized** Map



• Solve the persistent naming problem



- Match the entities
- Topological Model
- Based on boundaries

### Jerboa Rules



## **Bulletin Board**

$\langle \rangle$	$\langle 0 \rangle$	$\langle 1 \rangle$		$\langle 2 \rangle$	
$n_0.\langle\rangle n_0.$	$\langle \rangle \mid n_0. \langle \rangle$	$  n_0.\langle \rangle$	$n_0.\langle 0 \rangle$	$n_0.\langle 2  angle$ 1	$n_0 \langle 2 \rangle$
$n_0$ $n_0$ $n_0$	Creat. $n_0, n_1$	$n_0^{\text{No eff.}}$	Creat. $n_1$	$n_0^{\text{No eff.}}$	Creat. $\bullet n_1$
$\langle 01 \rangle$	$\rangle$ $\langle 1$	$2\rangle$	$\langle 02 \rangle$	$\langle 012 \rangle$	
$n_0.\langle$	$\left  0 \right\rangle \left  n_0 . \left\langle 2 \right\rangle \right $	$\overline{n_0.\langle 02 \rangle}$	$n_0.\langle 2 \rangle$	$n_0.\langle 02 \rangle$	
	Modifier $n_1$ No eff. $n_0$	Creat. $n_1$	$n_0, n_1$	Modif.	

### **Persistant Naming and History Record**

- Homogenous and general
- Updated with every new operations
- PNa=1-n7 and PNb= 1-n4 after Step 1, 1-n7;2n0 and 1-n4;2n1 after Step 2
- c is created from a at Step 2, and PNc = 1-n7;2-n2





# Reevaluation

- Made thanks to the History records,
- Completed when an operation is





#### deleted or added



