



HAL
open science

Product Line Configurations guided by Process Traces

Houssem Chemingui, Camille Salinesi, Inès Gam El Golli, Raul Mazo, Henda Benghezala

► **To cite this version:**

Houssem Chemingui, Camille Salinesi, Inès Gam El Golli, Raul Mazo, Henda Benghezala. Product Line Configurations guided by Process Traces. Journées nationales du Génie de la Programmation et du Logiciel, Jun 2019, Toulouse, France. hal-02295947

HAL Id: hal-02295947

<https://hal.science/hal-02295947v1>

Submitted on 24 Sep 2019

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

PRODUCT LINE CONFIGURATIONS GUIDED BY PROCESS TRACES

Houssem CHEMINGUI, Camille SALINESI, Ines GAM,
Raul MAZO, Henda BEN GHEZALA

MASS CUSTOMIZATION SOLUTIONS

One to One offer with a maximum of specific requirements.



PRODUCT LINES

Similar products sharing common characteristics and satisfying particular requirements.



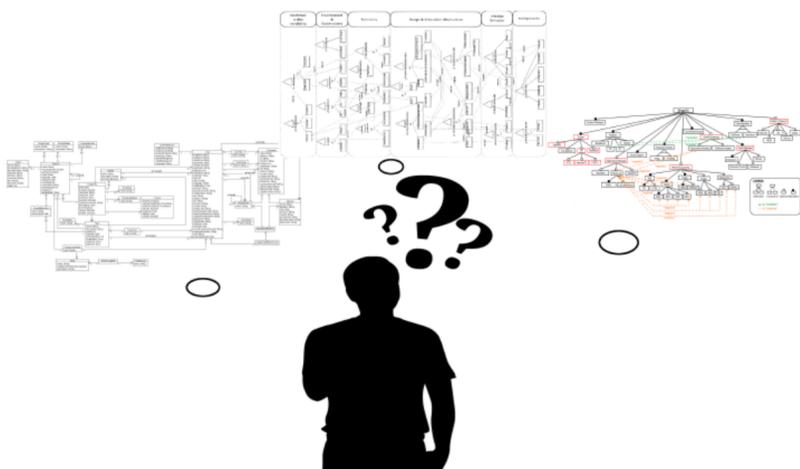
A configuration represents a product of the Line.



PROBLEM STATEMENT

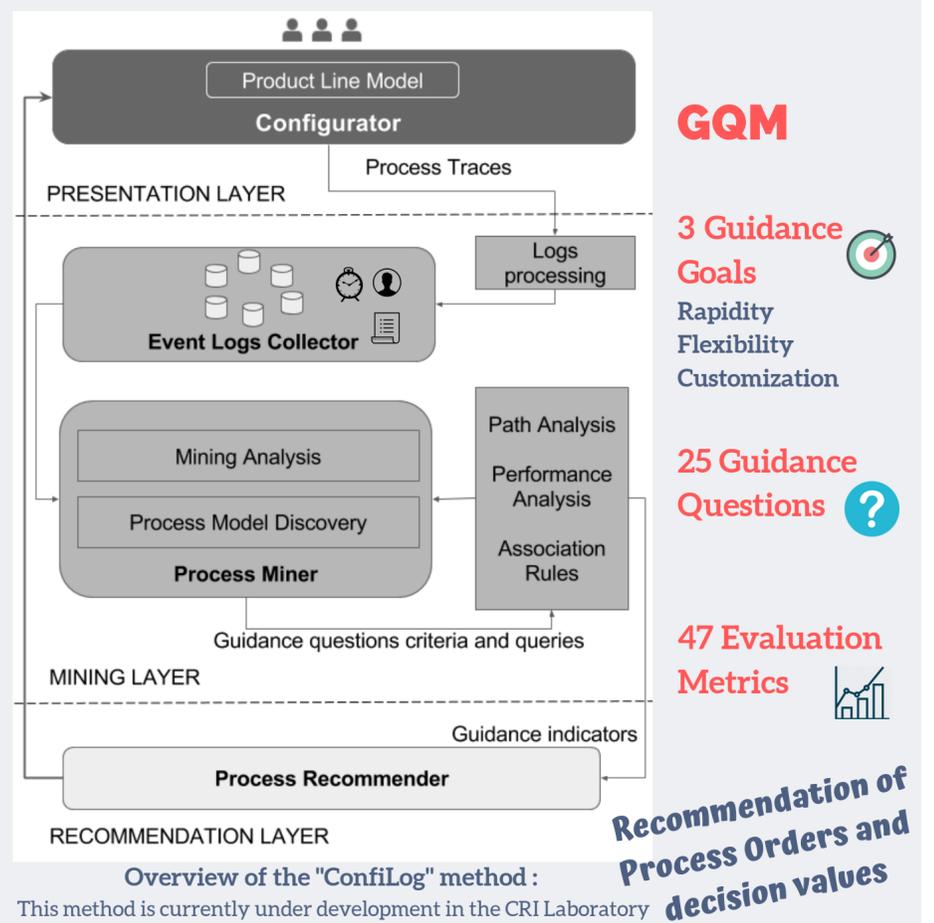
The configuration process becomes quickly complex when considering :

- The big number of constrained decisions,
- The order of decisions,
- The runtime of inappropriate decisions.

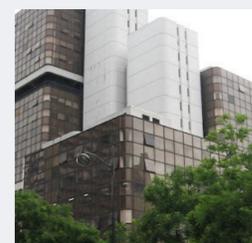


How to guide, provide proposals and recommend choices!

PROCESS MINING AS A SOLVING TOOL



EXPERIMENTATION IS LOADING!



A bike for each student! Let's Configure!

- Outcome 1 : Collect Real Configuration process Traces
- Outcome 2 : Evaluate the guidance of the "ConfiLog" Configurator.

WHAT WE WILL DO!

Situational Approaches : Goals will be detected and orchestrated automatically according to user partial Configurations.

This work is supported by the French-Tunisian CMCU project 16G/1416 called CONFIGURE.



+33 7 67 92 12 91
Mohamed-Houssem.Chemingui@etu.univ-paris1.fr

