

ModelWriter: Text & Model-Synchronized Document Engineering Platform

European Union (EU) EUREKA Information Technology for European Advancement (ITEA) labelled research and development project (ITEA project no: 13028) including 9 project partners from France and Turkey



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TÜBİTAK

Abstract

The project envisions an integrated authoring environment called “ModelWriter” for software or systems engineers, which combines a Semantic Parser (the “Writer” part), capable to “understand” pieces of text and transparently create models out of them; and a Knowledge Capture Tool (the “Model” part), understands the semantics of industry standard notations and languages such as UML, ReqIF and Java. This allows technical authors to interactively configure and analyze traceability among different parts of work products produced in the system development process to perform different review activities such as consistency checking, change impact analysis, structural coverage and repairing broken traces.

Start Date: October 1, 2014

End Date: October 1, 2017

Project Partners:

French Partners:



Turkish Partners:



Dr. Kardas worked as the consultant for the project partner KocSistem Information Communication Services Inc.

Related Publications:

1. Erata, F., Gardent, C., Gyawali, B., Shimorina, A., Lussaud, Y., Tekinerdogan, B., Kardas, G. and Monceaux, A. (2017) "[ModelWriter: Text & Model-Synchronized Document Engineering Platform](#)", In proceedings of the 32nd IEEE/ACM International Conference on Automated Software Engineering (ASE 2017), October 30 - November 3, 2017, Urbana-Champaign, Illinois, USA, ACM Press, pp. 907-912.
2. Erata, F., Goknil, A., Tekinerdogan, B. and Kardas, G. (2017) "[A Tool for Automated Reasoning about Traces based on Configurable Formal Semantics](#)", In proceedings of the 11th Joint Meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE 2017), September 4-8, 2017, Paderborn, Germany, ACM Press, pp. 959-963, DOI: 10.1145/3106237.3122825.
3. Erata, F., Challenger, M., Tekinerdogan, B., Monceaux, A., Tüzün, E. and Kardas, G. (2017) "[Tarski: A Platform for Automated Analysis of Dynamically Configurable Traceability Semantics](#)", In proceedings of the 32nd ACM SIGAPP Symposium on Applied Computing (SAC 2017), Technical Track on Programming Languages, April 3-6, 2017, Marrakech, Morocco, ACM Press, pp. 1607-1614, DOI: 10.1145/3019612.3019747.

More Info:

<https://itea3.org/project/modelwriter.html>

<http://www.modelwriter.eu/>