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To whom it may concern

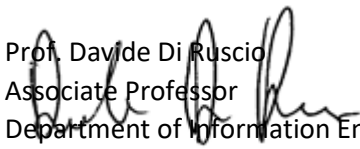
Report on the PhD thesis “Engineering Recommender Systems for Modelling Languages An Automated End-to-end Approach” by Lissette Almonte García

The work presented in this thesis is in the field of Recommender Systems (RSs) in the context of software engineering and modeling languages. The primary focus is on addressing the challenges associated with creating RSs for modeling languages, emphasizing the need for personalization in software modeling tasks. The proposal introduces an innovative automated end-to-end approach using a domain-specific language called DROID. This approach enables the configuration of various aspects of a RS, such as the type of modeling elements to be recommended, data gathering and preprocessing, recommendation methods, and evaluation metrics. The resulting system is designed to be deployed as a service, facilitating integration with third-party tools and adhering to a reference recommendation API.

The thesis's second significant contribution lies in presenting a methodology for the reuse of RSs across different modeling languages through structural mapping. This methodology is supported by IRONMAN, an Eclipse plugin that automates the integration of existing RSs within Sirius and EMF tree editors. It not only enables the integration of recommenders created for one modeling language with a different one but also facilitates the aggregation of recommendations from multiple sources.

The thesis satisfies the department's publication requirements: it has made a notable impact by contributing to one journal paper, three conference papers, one workshop paper, and two journal papers presently under review. This underscores the author's valuable contributions to the realm of Recommender Systems within the context of modeling languages and software engineering. The technical content of the work stands on a solid foundation, systematically experimenting with various cases. Consequently, I endorse the candidate to defend the work articulated in their PhD thesis.

Please do not hesitate to contact me if you require further information.


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