RET Keynote 2019
The Road to Data-driven Requirements Engineering

Xavier Franch[1]

[1] GESSI research group
Universitat Politècnica de Catalunya (UPC-BarcelonaTech)
Spain

Abstract. In the last years, we are witnessing the advent of data-driven approaches in almost every single software engineering activity, and requirements engineering is not the exception to the rule. The exploitation of data coming from several sources may indeed become an extremely useful input to requirements elicitation and management but it does not come for free. Techniques such as natural language processing and machine learning are difficult to master and require high-quality data, whilst their generalization remains as a challenge. In this keynote, I introduce the main concepts behind data-driven requirements engineering, then I provide an overview of the state of the art and report on results from some collaborative projects in which I'm participating, and last recapitulate lessons learned and open challenges. The research reported has been possible thanks to the support of the OpenReq (contract 732463) and Q-Rapids (contract 732253) H2020 projects supported by the European Union.