Abstract

Software engineering complexities and challenges are multifaceted and do not only arise from technology advancements. Human factors related to software engineering are a crucial aspect that has been overlooked by many organizations and has received less research focus. The research, which is a part of a larger study, aims to build a competency framework targeting software engineers. Considering a future with more agility and product engineering, this study is conducted through a mixed mode method, taking Sri Lankan software engineering undergraduate students as a sample to determine the future outlook. The technical competencies identified would support undergraduates, academics, and industry training providers with fresh insights from a research perspective. Furthermore, it will help undergraduates who intend to join the industry to sharpen their technical competencies.

References

- Liu, S. (2013, October). Engineering the Success of Software Development. IT Pro -
IEEE, pp. 4 - 5.
503.

Index Terms

Computer Science

Information Science

Keywords

Software Engineering; Competency Framework; Sri Lanka; Sri Lankan Software Industry; Undergraduates.