



American International University-Bangladesh (AIUB)

SDG Activity Report on

SDG 1: No Poverty



**End Poverty
in All its
Forms
Everywhere**

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Faculty Research and Publication

Macroeconomic Determinants of Remittances & its implication for Economic Growth: Evidence from Bangladesh

Author: Farhana Rafiq et al.

Brief Description:

Workers' remittances are one of the main sources of foreign exchange in developing countries. Therefore, understanding how macroeconomic factors influence the flows of workers' remittances is important for macroeconomic policy formulation in developing economies. Using a panel data of remittance flows from 12 major host countries to Bangladesh over the 2005–2017 period, this chapter examines the role of macroeconomic factors and financial sector development in Bangladesh in determining the flows of remittances. We found that the effect of income differential between the host countries and Bangladesh is statistically insignificant, indicating that altruistic motive was not the main factor for remittances during this period. On the other hand, financial sector development played a positive role in increasing remittance flows through improving access to financial services in Bangladesh. Using time series data on workers' remittances from 1981 to 2017, we also found that there is a positive long-run relationship between remittances and gross domestic product, which highlights the importance of remittances for macroeconomic development in Bangladesh.

Source: https://link.springer.com/chapter/10.1007/978-981-15-1244-5_14

Comprehending relationship between Contribution and Career development in OSS Ecosystem

Author: Kaniz Fatema et al.

Brief Description:

For the past couple of decades, Open source software (OSS) projects have become the pioneer in delivering commercial-grade software products. Linux distributions, LibreOffice, Firefox, Chrome, Android OS initiative, FreeMind, BSD Distributions are few of the many such products. Unlike the inhouse commercial projects, OSS ecosystem offers a community driven collaborative development structure for people to freely join, learn, share effort and knowledge to develop software. Due to this unorthodox process and practices, OSS Projects become the central concern of software engineering research. One of the widely researched topics on the track was what motivates developers to participate, how they get recruited and integrated in the OSS projects. However, the other half of the story remained unexplored. That is, being part of the projects, what factors related to developers' contribution lead to shape a sustainable and reputed career? This research explores empirically the same by leveraging data extracted from OSS project

repositories. The transcript of assessment shows that plurality, quality and length of service have strong positive correlation with developers' current rank and reputation. In other words, developers' reputation and acceptance within the OSS ecosystem grow proportionally with greater quality of contribution in diverse OSS projects for a substantial period of time.

Source:

https://www.researchgate.net/publication/342625937_Comprehending_relationship_between_Contribution_and_Career_development_in_OSS_Ecosystem

Demography of Startup Software Companies: An Empirical Investigation on the Success and Failure

Author: Kaniz Fatema et al.

Brief Description:

Startup software company can be envisage as a company committed to deliver innovative solution to market with four primary objectives, namely, product, service, process and platform. Software startups are quite distinct from traditional mature software companies. These companies develop state-of-the-art, software-intensive products within limited time frames and with few resources. They also introduce new challenges relevant to software engineering research which in turn lead to ample set of empirical investigation on the topic. This research is targeted to offer a systematic literature survey on the scientific investigations carried out on Startup software companies, specifically concentrating on their success and failure parameters and strategies to encounter symptoms of failure.

Source:

https://www.researchgate.net/publication/342281580_Demography_of_Startup_Software_Companies_An_Empirical_Investigation_on_the_Success_and_Failure

A Privacy Protected Platform to Aggrandize Micro-Business

Author: Kaniz Fatema et al.

Brief Description:

This paper presents a platform, which will provide both the micro-businesses and its consumers a common ground to maximize their interests and benefits and in turn better contribute to the economy. This research work offers a comprehensive study on the micro businesses to portray their contributions and needs for expansion. The research then designs a conceptual platform to host, promote and manage businesses and their consumers. The platform is integrated with the MyGeoTrust privacy service for better protecting associated information. Finally, the research presents a prototype implementation of the platform in android to demonstrate its applicability.

Source: <https://thescipub.com/abstract/jcssp.2019.1595.1606>

Agile Fitness of Software Companies in Bangladesh- An Empirical Investigation

Author: M M Mahbubul Syeed, PhD et al.

Brief Description:

With the mandate of light-weight working practices, iterative development, customer collaboration and incremental delivery of business values, Agile software development methods have become the de-facto standard for commercial software development, worldwide. Consequently, this research aims to empirically investigate the preparedness and the adoption of agile practices in the prominent software companies in Bangladesh. To achieve this goal, an extensive survey with 16 established software companies in Bangladesh is carried out. Results exhibit that the Scrum agile methodology is the highest practiced one. Alongside, to a great extent these software companies have the readiness to effectively adopt the Scrum methodology. However, with regard to practicing the Scrum principles, they fall short in many key aspects. Keywords—Agile manifesto; agile methodology; scrum; soft-ware development projects; software companies in Bangladesh

Source:

[https://www.researchgate.net/publication/349742635 Agile Fitness of Software Companies in Bangladesh An Empirical Investigation](https://www.researchgate.net/publication/349742635_Agile_Fitness_of_Software_Companies_in_Bangladesh_An_Empirical_Investigation)