

Software Engineering and Software Analytics.

Contact:

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Human Factors in Software Engineering.

We are interested in the impact of Human Factors on the success of software development projects. In particular, we are interested in how software developer motivation and personality influences or is influenced by the job characteristics of software development. We are exploring these human factors with the overall aim of gaining sufficient insight to enable us determine better ways of improving the quality of the results of software development endeavours. We have published a model of the relationship between human factors and the outcomes of software development. We are looking for a PhD student who will be interested in working to evolve this model by revalidating in different development contexts, in order to explore hitherto unrealised dimensions. For example, this work may focus on the applicability of the published model in new development approaches that lean more towards the Agile approach to software development.

References to related work:

Betrand M, (2019) Fault Aware Software Engineering (FASE): Reducing Code Faults by Controlling Developer Characteristics, *Proceedings of EASE 2019- Evaluation and Assessment in Software Engineering*, April 14-17, Copenhagen, Denmark

Hall, T., S. Beecham, N. Baddoo, H. Robinson, and H. Sharp (2009) A Systematic Review of Theory Use in Studies Investigating the Motivations of Software Engineers *ACM Transactions on Software Engineering and Methodology (TOSEM)*, 18 (3)

Sharp, H., Baddoo, N., Beecham, S., Hall, T. and Robinson, H., (2009) Models of Motivation in Software Engineering, *Information and Software Technology Journal*; **51** (1), pp. 219- 233

Baddoo, N., Beecham, S., Hall T, Robinson H., Sharp H, (2008) Building a Theoretically Reflective Model of Software Engineers' Motivators, *15th European Conference, EuroSPI 2008*, Dublin, Ireland, September 3-5, 2008