

SBSE: Introduction and Motivation

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Abstract. This tutorial will provide a brief introduction to the field of Search Based Software Engineering (SBSE) to (re)establish the context in which we are working in this symposium. There is a paper in the proceedings of the symposium this year, entitled *Ten Years of Search Based Software Engineering: A Bibliometric Analysis* by Fabrício Freitas and Jerffeson Souza. This means that there will be no need for me to survey the history of the subject in this talk. Rather, I will provide a very brief introduction to the field of SBSE, summarising some of its advantages and motivations, explaining why software is the ideal engineering material for optimisation algorithms and how SBSE can serve to (re)unify apparently unconnected areas of Software Engineering.