



COLLEGE of ENGINEERING AND PHYSICAL SCIENCES

SCHOOL OF COMPUTER SCIENCE

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A Framework to Assist in the Selection of Appropriate Techniques for the Personalization of Software Systems Based on Characteristics of Available Data

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Abstract:

The complexity of modern software systems has had the unintended consequence of overwhelming users with large amounts of information, reducing their ability to effectively use these systems for their intended purposes. This phenomenon is known as the information overload problem, and is remedied by personalization. The literature provides several useful algorithms, methods, and techniques that may be used to personalize existing software systems. However, each approach has specific input data requirements. Without extensive prior knowledge of the literature, knowing which approach or procedure to employ for a given system is rarely obvious. A framework that could ease the selection of a suitable method by non-technical individuals for any given software system would be of immense value to those seeking to enable personalization. This thesis will present a framework to assist in the selection of appropriate techniques for the personalization of software systems based on the characteristics of available data.