An Automatic and Generic Framework for Ranking Research Institution and Scholars based on Publications

Jie Ren, Richard N. Taylor
Institute for Software Research
University of California, Irvine
Irvine, CA 92697-3425
{jie, taylor}@ics.uci.edu

ISR Technical Report # UCI-ISR-04-5
June 2004

Abstract:

We describe an automatic and generic framework for ranking research institutions and scholars based on publications. Compared to other publication-based ranking methodologies, our framework is automatic and can apply to a larger selection of publication venues over a longer time span without any further manual work. Our framework is generic so it can apply not only to computer science and related fields but also to other scholarly disciplines. We used our framework to automatically rank research institutions and scholars in both computer science and software engineering. The quality of rankings based on the framework depends on the abundance of bibliographic data. The framework can be improved by incorporating citation counts as additional quality measures.