Software citation, landing pages, and the swMATH service

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The FORCE11 Software Citation Working Group has published the Software Citation Principles (SCPs) 2016. A citation standard would be very useful for both software authors and users, but its implementation is under discussion and has not lead to an accepted citation proposal.

The swMATH portal (http://www.swmath.org) is a comprehensive information service for mathematical research software and related objects. It contains information on 19,000 software packages with 240,000 references in 140,000 scientific publications. A unique and novel feature of swMATH besides its scope is the so-called publication-based approach, which uses the information of mathematical articles and their references for identifying software and extracting relevant information about them. To improve its precision and quality, a proposal for software citations with version specification has been developed. The proposal and its possible use in swMATH will be presented.