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swMATH offers **free access** to a large database with information on software in all mathematical fields from large general purpose systems to small packages. For each software it provides meta data, a short description, the URL, keywords, relevant MSC classes, a list of related software and, most importantly, a list of peer reviewed mathematical articles referring to the software with a link to the reviewing database zbMATH.

The unique and novel feature of swMATH besides its scope is the **publication-based approach**. Articles that are represented in zbMATH are used to identify mathematical software and to generate relevant information about it. This is mainly done automatically. Easy maintenance, a complete coverage of all mathematical topics and continuous updates of software packages and articles are important features of this database.

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