International Workshop on Web-Scale Knowledge Representation, Retrieval, and Reasoning (WEB-KR³ 2011)

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WEB-KR³ 2011 Workshop Statement: The World Wide Web has become the carrier for the largest human knowledge repository in history. Because its knowledge bases are growing toward a practically “infinite” volume, web-scale knowledge representation, retrieval, and reasoning (Web-KR³) is becoming a real issue and an urgent task. Although the web community has developed a number of knowledge representation languages and reasoning methods, when the volume goes web-scale, existing approaches meet many challenging problems, such as scalability, inconsistency, uncertainty, and dynamics. Hence, a unified approach to Web-KR³ needs to be developed. Following the successful 2010 version of the workshop under the same title, this workshop aims to bringing together researchers from web research, artificial intelligence, high-performance computing, cognitive science, knowledge management, and machine learning to discuss all issues of Web-KR³ in a synergistic setting.