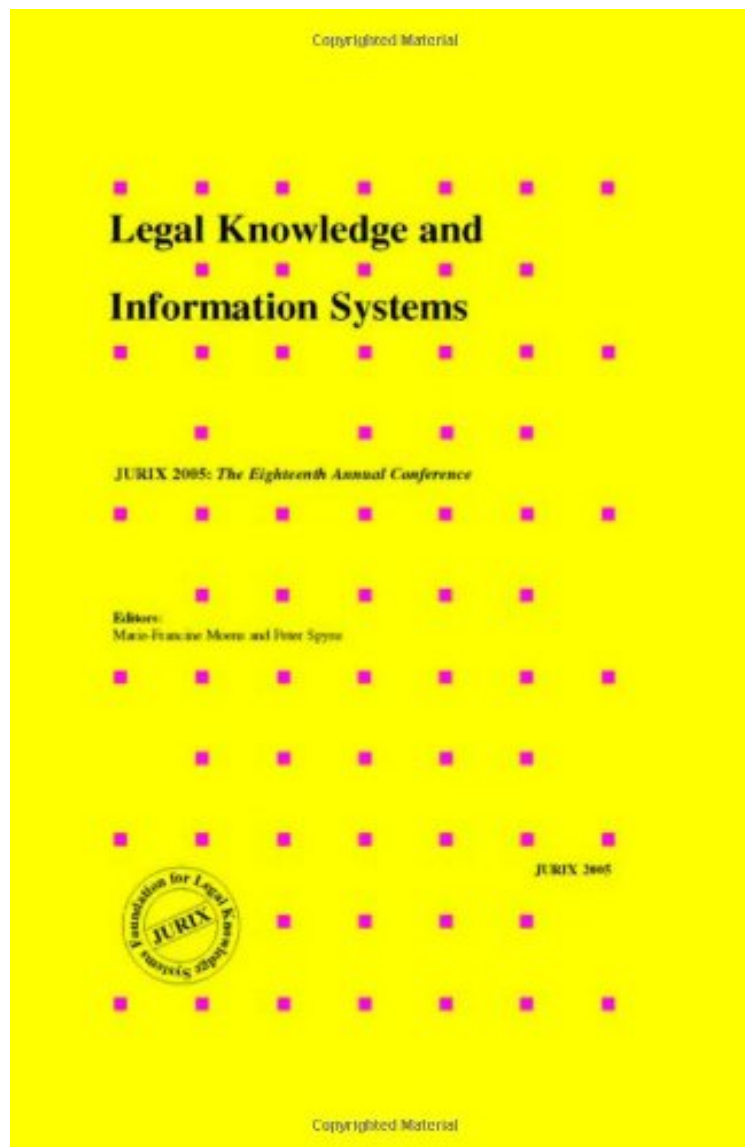


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# Legal Knowledge and Information Systems: JURIX 2005: The Eighteenth Annual Conference: Volume 134 Frontiers in Artificial Intelligence and Applications

*P. Spyns M.F. Moens*

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Currently, several artificial intelligence technologies are growing increasingly mature, including computational modeling of reasoning, natural language processing, information retrieval, information extraction, machine learning, electronic agents, and reasoning with uncertainty. Their integration in and adaptation to legal knowledge and information systems need to be studied. Parallel to this development, e-government applications are gradually gaining ground among local, national, European and international institutions. More than 25 years of research in the field of legal knowledge and information systems have resulted in many models for legal knowledge representation and reasoning. However, authors and reviewers rightly remarked that there are still some essential questions to be solved. First, there is a need for the integration and harmonization of the models. Secondly, there is the difficult problem of knowledge acquisition in a domain that is in constant evolution. If one wants to realize a fruitful marriage between artificial intelligence and e-government, the aid of technologies that automatically extract knowledge from natural language and from other forms of human communication and perception is needed. IOS Press is an international science, technical and medical publisher of high-quality books for academics, scientists, and professionals in all fields. Some of the areas we publish in: -Biomedicine -Oncology -Artificial intelligence -Databases and information systems -Maritime engineering -Nanotechnology -Geoengineering -All aspects of physics -E-governance -E-commerce -The knowledge economy -Urban studies -Arms control -Understanding and responding to terrorism -Medical informatics -Computer Sciences