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Abstract
An automatic update system based on semantic web techniques to implement the drug-law checking automatically is proposed in this thesis. The design concept is to use OWL as the knowledge model. To represent the drug law knowledge, we view a drug law as a class of medical status, and we can use classification to implement the decision of drug use legality. This approach simplifies the design of inference engine. The OWL supports the syntax of class inherences, so it can reach the cognitive economy and shorten the drug laws encoding length. The OWL syntax can represent most drug laws style, so the system can just use one document and one inference engine to handle all drug laws rules. The OWL simplifies the design of NHI drug laws automatically update system, so the doctor order system reflects the change of drug laws more rapidly. To the hospitals, this reduces the cost of updating the hospital information systems for obtaining the newest drug laws. To medical administrations, this reduces the cost of enforcing its drug laws to all hospitals' information systems. The system proposed in the thesis is very useful for reducing the waste of medical resource and increasing the patient's security.
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