

Hybrid Knowledge Approach for Determining Health Care Provider Specialty from Patient Diagnoses

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Abstract : In an access-control situation, the role of a user determines whether a data request is appropriate. This paper combines vetted web mining and logic modeling to build a lightweight system for determining the role of a health care provider based only on their prior authorized requests. The model identifies provider roles with 100% recall from very little data. This shows the value of vetted web mining in AI systems, and suggests the impact of the ICD classification on medical practice.

Keywords : electronic medical records, information extraction, logic modeling, ontology, vetted web mining

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