Experience-Based Electronic Health Records

Por: Muro, N (Muro, Naiara) [1,2]; Sanchez, E (Sanchez, Eider) [1,3]; Toro, C (Toro, Carlos) [1]; Carrasco, E (Carrasco, Eduardo) [1,3]; Rios, SA (Rios, Sebastian A.) [4]; Guijarro, F (Guijarro, Frank) [5]; Grana, M (Grana, Manuel) [2,6] 

CYBERNETICS AND SYSTEMS
Volumen: 47
Número: 1-2
Páginas: 126-139

Número especial: SI
DOI: 10.1080/01969722.2016.1128774
Fecha de publicación: JAN 2 2016
Ver información de revista

Resumen

Electronic Health Records are clinical information repositories that have been proposed primarily to provide access to all clinical data of a patient. They have been formally defined by a dual model composed of a reference model and an archetype model. Such dual approach allows semantic interoperability, thus making different systems understand each other. In this work we extend the current structure with a third Decisional Model that will allow reasoning over the embedded clinical contents. Such reasoning will be based on the reuse of the clinical experience gained by the corresponding clinical professionals during different decision procedures.

Palabras clave

Palabras clave de autor: triple model methodology; knowledge extraction; electronic health record; Clinical decision support system; semantic model
KeyWords Plus: SEMANTIC INTEROPERABILITY; DECISION-SUPPORT; CLINICAL INFORMATION; REFLEXIVE ONTOLOGIES;SYSTEMS; MANAGEMENT; DIAGNOSIS; REUSE

Información del autor

Dirección para petición de copias: Toro, C (autor para petición de copias)


Direcciones:

[ 1 ] Vicomtech IK4, Donostia San Sebastian, Spain
[ 2 ] Univ Basque Country UPV EHU, Computat Intelligence Grp, San Sebastian, Spain
[ 4 ] Univ Chile, Business Intelligence Res Ctr, Ind Engn Dept, Santiago, Chile
[ 5 ] Bilbomatica, Bilbao, Spain