



NCBI

NCBI



Save to EndNote online

Add to Marked List

12 of 15

Data and knowledge in medical distributed applications.

By: Serban, Alexandru; Crisan-Vida, Mihaela; Stoicu-Tivadar, Lacramioara

Studies in health technology and informatics

Volume: 197 **Pages:** 41-5

Published: 2014

Abstract

Building a clinical decision support system (CDSS) capable to collect process and diagnose data from the patients automatically, based on information, symptoms and investigations is one of the current challenges for researchers and medical science. The purpose of the current study is to design a cloud-based CDSS to improve patient safety, quality of care and organizational efficiency. It presents the design of a cloud-based application system using a medical based approach, which covers different diseases to diagnosis, differentiated on most important pathologies. Using online questionnaires, traditional and new data will be collected from patients. After data input, the application will formulate a presumptive diagnosis and will direct patients to the correspondent department. A questionnaire will dynamically ask questions about the interface, and functionality improvements. Based on the answers, the functionality of the system and the user interface will be improved considering the real needs expressed by the end-users. The cloud-based CDSS, as a useful tool for patients, physicians and healthcare providers involves the computer support in the diagnosis of different pathologies and an accurate automatic differential diagnostic system.

Author Information

Address: Department of Automation and Applied Informatics, University Politehnica, Timisoara, Romania.

Categories / Classification

Research Areas: Information Science & Library Science; Medical Informatics; Health Care Sciences & Services; Computer Science (provided by Thomson Reuters)

MeSH Terms:

Heading	Qualifier
Data Mining	*methods
*Decision Support Systems, Clinical	
Diagnosis, Computer-Assisted	*methods
*Electronic Health Records	
*Internet	
Knowledge Bases	
Medical Record Linkage	*methods
Software	
*User-Computer Interface	

Document Information

Document Type: Journal Article

Language: English

PubMed ID: 24743075

NLM Unique ID: 9214582

Date Created: 18 Apr 2014 **Date Completed:** 10 Apr 2015

Country: Netherlands

Citation Network

0 Times Cited

0 Cited References



Create Citation Alert

(data from Web of Science™ Core Collection)

View PubMed Related Articles

All Times Cited Counts

0 in All Databases

0 in Web of Science Core Collection

0 in BIOSIS Citation Index

0 in Chinese Science Citation Database

0 in Data Citation Index

0 in Russian Science Citation Index

0 in SciELO Citation Index

Usage Count

Last 180 Days: 0

Since 2013: 1

[Learn more](#)

This record is from:
MEDLINE®

Suggest a correction

If you would like to improve the quality of the data in this record, please [suggest a correction](#).

ISSN: 0926-9630

Other Information

Citation Subset: Health Technology Assessment

Status: MEDLINE

