

Revisão sistemática de Literatura em Estratégias de Interoperabilidade no modelo de computação em Nuvem

.....

Elias Adriano N. da Silva
Renata Pontim M. Fortes
Daniel Lucrédio



Protocolo - Fase 1

- **Studies inclusion and exclusion criterias:**

- **Inclusion:**

- The primary study reports technics or approaches related cloud interoperability;
- The primary study reports or proposes a new technic for development of interoperable cloud applications;
- The primary study report research projects regarding cloud interoperability;
- The primary study must be available;

- **Exclusion:**

- The primary study was not written in english;
- The primary study is not related to the subject;
- The research study is a previous version of a more complete study about the same research;
- The primary study is not available(First Try to ask the author);
- Exclusion by title;

Protocolo - Fase 1

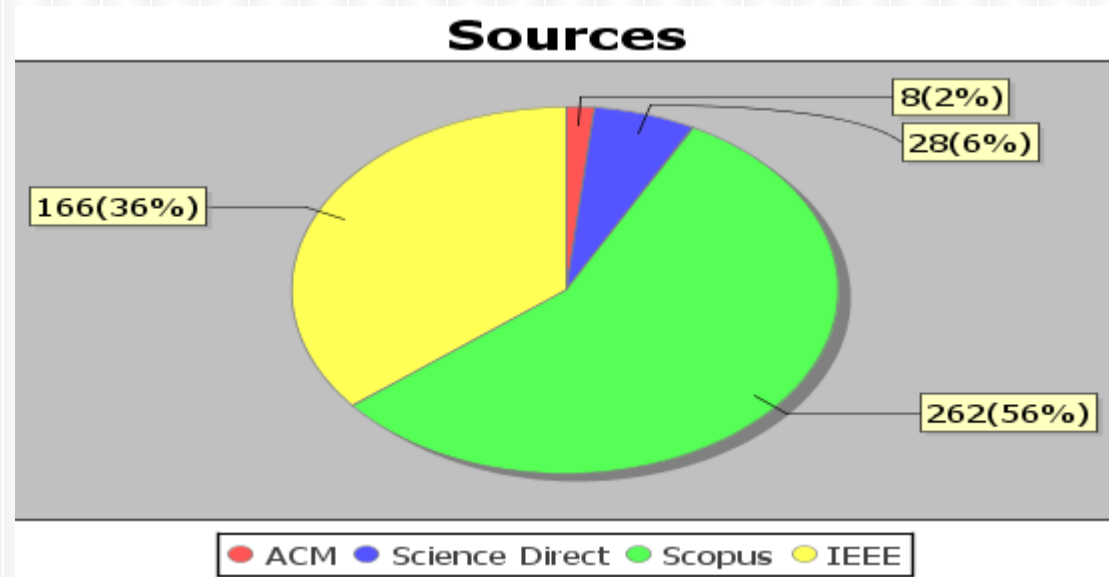
- **Initial studies selection:** The Initial studies selection should be done by reading **title and abstract**;
- **Information Extraction Fields:**
 - **Contextualization;**
 - **Definition of the problem Addressed by the paper/research;**
 - **Method;**
 - **Results;**
 - **Conclusions;**
 - **Observations;**
- **Results Summarization:** The summarization should be done by qualitative analyses on extracted data;

Execução - Fase 2

Etapa 1/3 - Identificação dos Estudos

.....

- Inicialmente foi feita a calibração de uma string de busca na base Scopus. Logo após essa string foi adaptada para as demais bases selecionadas para este estudo.
- Resultado das Buscas:



Total = 464 Estudos entre primários e secundários

Execução - Fase 2

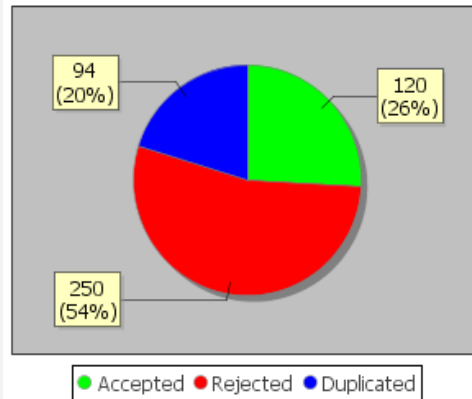
Etapa 2/3 - Seleção Inicial dos Estudos

- Conforme Previsto no Protocolo, a seleção inicial deveria ser feita através da leitura do título e Abstract dos estudos recuperados.
- Nesta etapa os estudos foram classificados em Aceitos, Rejeitados, Duplicados ou temporariamente como não classificados.
- Portanto, foram feitas as leituras dos títulos e Abstracts dos 464 estudos e aplicados os critérios previamente definidos no protocolo.
- Todos os critérios aplicados em cada artigo foram documentados de maneira auxiliar possíveis tarefas de auditoria e repetição da revisão, bem como facilitar a identificação dos motivos que levaram cada estudo a ser selecionado ou rejeitado.

Execução - Fase 2

Etapa 2/3 - Seleção Inicial dos Estudos

- Resultados:



- Documentação do processo: disponibilização do empacotamento feito utilizando a ferramenta Start através de um website, bem como um relatório técnico de revisão através da biblioteca do ICMC.

Title	Authors	Status/Selection	Status/Extraction	Year	Type	(I) The pr	(I) The pr	(I) The pr	(I) The pr	(E) The pr	(E) The pr	(E) The pr	(E) The pr	(E) The pr	(E) The pr	(E) The pr
Development of	Miranda, J. and Guill�n, J. and Murillo, J.M. and Canal, C.	ACCEPTED	ACCEPTED	2011	Conference Paper	Y	Y	Y	Y	N	N	N	N	N	N	N
Heterogeneity in	Sanaei, Z. and Abolfazli, S. and Gani, A. and Buyya, R.	REJECTED	UNCLASSIFIED	2011	Article in Press	N	N	N	N	N	Y	N	N	N	N	N
A user-centric r	Zeginis, D. and D'Andria, F. and Bocconi, S. and Cruz, J.G. and Martin, C.	ACCEPTED	ACCEPTED	2011	Article	Y	Y	Y	Y	N	N	N	N	N	N	N
An abstraction i	Nguyen, B.M. and Tran, V. and Hluchy, L.	ACCEPTED	ACCEPTED	2011	Article	Y	Y	Y	Y	N	N	N	N	N	N	N
A novel approach	Nguyen, B.M. and Tran, V. and Hluchy, L.	ACCEPTED	REJECTED	2011	Conference Paper	Y	Y	Y	Y	N	N	N	N	N	N	N
A platform-as-a	Cunha, D. and Neves, P. and Sousa, P.	ACCEPTED	ACCEPTED	2011	Conference Paper	Y	Y	Y	Y	N	N	N	N	N	N	N
CloudHealth: De	Hendrick, E. and Schooley, B. and Gao, C.	REJECTED	UNCLASSIFIED	2011	Conference Paper	N	N	N	N	N	Y	N	N	N	N	N
Development an	Nguyen, B.M. and Tran, V. and Hluchy, L.	ACCEPTED	UNCLASSIFIED	2011	Conference Paper	Y	Y	Y	Y	N	N	N	N	N	N	N
Role of standar	Lewis, G.A.	ACCEPTED	UNCLASSIFIED	2011	Conference Paper	Y	Y	Y	Y	N	N	N	N	N	N	N
Cloud-Marketpla	Grilo, A. and Jardim-Goncalves, R.	REJECTED	UNCLASSIFIED	2011	Article	N	N	N	N	N	Y	N	N	N	N	N
The impact of cl	Mavodza, J.	REJECTED	UNCLASSIFIED	2011	Review	N	N	N	N	N	Y	N	N	N	N	N
Achieving interc	Doherty, D. and Redberg, D.	ACCEPTED	REJECTED	2011	Article	Y	Y	Y	Y	N	N	N	N	N	N	N
EHR systems in	De La Torre-D�ez, I. and Gonz�lez, S. and L�pez-Coronado, M.	ACCEPTED	REJECTED	2011	Article	Y	Y	Y	Y	N	N	N	N	N	N	N
A service-orient	Guill�n, J. and Miranda, J. and Murillo, J.M. and Canal, C.	ACCEPTED	UNCLASSIFIED	2011	Article in Press	Y	Y	Y	Y	N	N	N	N	N	N	N
Analysis of app	Mohtasebi, A. and Ismail, Z. and Shanmugam, B.	ACCEPTED	UNCLASSIFIED	2011	Conference Paper	Y	Y	Y	Y	N	N	N	N	N	N	N

Relat rio dos estudos e respectivos crit rios aplicados

Execução - Fase 2

Etapa 3/3 - Extração e Seleção através da Leitura completa dos estudos.

- Até o momento, foram lidos 16 artigos e extraídos seguintes dados (conforme previsto no protocolo):
 - **Contextualization;**
 - **Definition of the problem Addressed by the paper/research;**
 - **Method;**
 - **Results;**
 - **Conclusions;**
 - **Observations;**
- Método de extração e documentação:
 - Uso de formulários baseados nos campos de extração de dados previstos no protocolo.

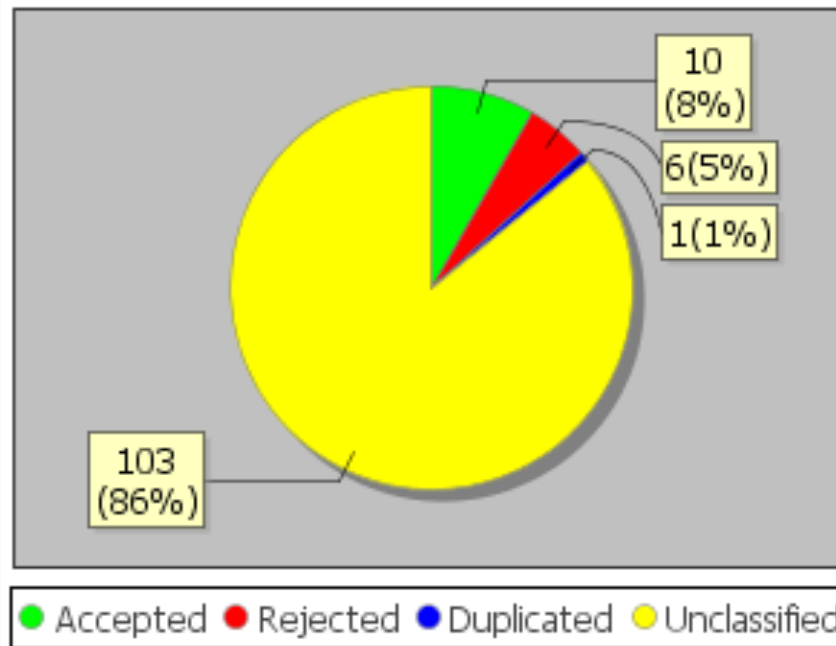
The screenshot shows a web-based data extraction form with four tabs: 'Study Data', 'Selection Data', 'Data Extraction Form' (active), and 'Similar Studies'. The form contains two text input areas. The first area is labeled 'Contextualization' and contains a paragraph of text describing a software development company and its products. The second area is labeled 'Definition of the problem Addressed by the paper/research' and contains a paragraph discussing the risk of technological lock-in in cloud computing.

Field	Content
Contextualization	In order to provide the intuition of the benefits that a MDD approach can deliver to Cloud development, we consider a running example. In our example, MODAFIN is a European software development company specialised in IT applications for financial services. Its main product line is a proprietary solution for stock market operations, cash administration, and lending management. Related to this product, the most profitable activities are software customisation and life-cycle management. The former involves development of custom modules to accommodate new functional requirements. Customisation also involves application integration with existing databases and legacy business systems at the customer's site. In addition, customers in the trading sector require assured quality, such as high-availability for real-time calculations during market hours, and scalability and low operational costs for
Definition of the problem Addressed by the paper/research	Vendor Lock-in. The risk of technological lock-in is a major concern for Cloud customers [3], [4]. Cloud providers, in fact, offer proprietary solutions that force Cloud customers to decide, at the early stages of software development the design and deployment models to adopt (e.g., public vs. hybrid Clouds) as well as the technology stack (e.g., Amazon Simple DB vs. Google Bigtable). Lack of past expertise in Cloud computing makes this a high-risk choice, especially for SMEs. This, if the target platform does not fulfil the original expectations, has potentially catastrophic business consequences. Thus,

Execução - Fase 2

Etapa 3/3 - Extração e Seleção através da Leitura completa dos estudos.....

- Resultados parciais:



Sumarização - Fase 3

- Pretende-se utilizar análise qualitativa dos dados extraídos de maneira a tentar responder as questões de pesquisa previamente definidas no protocolo.