






ISTMET 2014

#135 (1569912321): *Detecting Major Disease in Public Hospital Using Ensemble Techniques*



Property	Change Add	Value																																								
Conference and track		2014 International Symposium on Technology Management and Emerging Technologies - Emerging Technologies																																								
Authors		<table border="1"> <thead> <tr> <th>Name</th> <th>ID</th> <th>Flag</th> <th>Affiliation (edit)</th> <th>Email</th> <th>Country</th> <th>Email</th> <th>Move authors</th> <th>Delete</th> <th>Register</th> </tr> </thead> <tbody> <tr> <td>Afriyan Firdaus</td> <td>1058835</td> <td></td> <td>University of Sriwijaya</td> <td>afriyan_firdaus@yahoo.com</td> <td>Indonesia</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Rin Nadia</td> <td>1058837</td> <td></td> <td>University of Sriwijaya</td> <td>puppe.meister@gmail.com</td> <td>Indonesia</td> <td></td> <td> </td> <td></td> <td></td> </tr> <tr> <td>Bayu Adhi Tama</td> <td>1049935</td> <td></td> <td>University of Sriwijaya</td> <td>bayu@unsri.ac.id</td> <td>Indonesia</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	ID	Flag	Affiliation (edit)	Email	Country	Email	Move authors	Delete	Register	Afriyan Firdaus	1058835		University of Sriwijaya	afriyan_firdaus@yahoo.com	Indonesia					Rin Nadia	1058837		University of Sriwijaya	puppe.meister@gmail.com	Indonesia					Bayu Adhi Tama	1049935		University of Sriwijaya	bayu@unsri.ac.id	Indonesia				
Name	ID	Flag	Affiliation (edit)	Email	Country	Email	Move authors	Delete	Register																																	
Afriyan Firdaus	1058835		University of Sriwijaya	afriyan_firdaus@yahoo.com	Indonesia																																					
Rin Nadia	1058837		University of Sriwijaya	puppe.meister@gmail.com	Indonesia																																					
Bayu Adhi Tama	1049935		University of Sriwijaya	bayu@unsri.ac.id	Indonesia																																					
Title		<i>Detecting Major Disease in Public Hospital Using Ensemble Techniques</i>																																								
Abstract		Hepatitis is chronic disease that becomes major problem in developing countries. Health experts estimate that more than 185 billion people have chronic hepatitis worldwide. This paper attempts to detect major disease such as hepatitis in public hospital using ensemble methods. Several state-of-the-art data mining techniques such as Bagging, AdaBoost, Random Subspace, Random Forest, and Rotation Forest were employed to acquire knowledge from patient medical records. Afterwards, rule extraction from decision tree and neural network are summarized in order to assist experts in detecting hepatitis. Accuracy of those algorithms is also performed and from the experimental result shows that Bagging, with decision tree as base-classifier, denotes best performance.																																								
Keywords	Only the chairs (istmet2014-chairs@edas.info) can edit	ensemble methods, hepatitis, predictive accuracy, public hospital, rule extraction																																								
Presenter(s)		Afriyan Firdaus (bio)																																								
Registration		Afriyan Firdaus has registered and paid for CF1:ALL																																								
DOI	Only the chairs (istmet2014-chairs@edas.info) can edit																																									
Status		minor revision required																																								
Copyright form		Regular copyright February 25, 2014 09:00:17 EST																																								

	Document (show)	Pages	File size	Changed	Delete
Review manuscript		4	236,901	February 13, 2014 13:03:33 EST	
	authorname	Doubleblind conference, but author name 'Adhi Tama' is visible on first page. (This is only a warning; ignore if false positive.) See FAQ for details.			
Final manuscript		Can upload 8 pages, and purchase 2 extra pages until May 1, 2014 23:59:00 EDT .			

Personal notes



You are an author for this paper.

Reviews

2 Reviews

Review 1 (Reviewer F)

Originality	Significance of Topic	Presentation
Accept (8)	Accept (8)	Weak Accept (6)

Strengths/Weakness (What are the major reasons to accept/reject the paper? [Be brief.])

Strengths:

The structure is good.
The study is good, can be a nice contribution for future work.
References and literature reviews are well in order.

Weakness:

Typos.
Ambiguity in explanations of results.
Rule extraction is not defined properly.

Contribution/s & Detailed comments (What are the major issues addressed in the paper? Do you consider them important? Comment on the degree of novelty, creativity and technical depth in the paper. Please provide detailed comments that will be helpful to the TPC for assessing the paper, as well as feedback to the authors.)

The paper reports an study on different ensemble techniques on a raw data collected from a public hospital. And present a clear comparison as Method vs Feature.

But, the paper lacks few points...

- 1) The results have not been explained well, there is a ambiguity in the analysis.
- 2) Input variables and their relation with Feature number are not clear?
- 3) Table I. is not very clear?
- 4) Author should put more stress on Rule extraction, and how their rules are better than others?
- 5) There is not much information on the raw data and its relation with different diseases, and identification concept is not clear.

However, I appreciate the efforts and the study made.
But, paper need to be more clear.

Review 2 (Reviewer I)

Originality Significance of Topic Presentation
Accept (8) Accept (8) Weak Accept (6)

Strengths/Weakness (What are the major reasons to accept/reject the paper? [Be brief.]

The objective of this study is to determine the best data mining system to extract information of disease reported in Hospital. The issues was well discussed but there are lots of grammatical mistake and need to be corrected. Nevertheless, based on the knowledge contents, this paper is acceptable.

Contribution/s & Detailed comments (What are the major issues addressed in the paper? Do you consider them important? Comment on the degree of novelty, creativity and technical depth in the paper. Please provide detailed comments that will be helpful to the TPC for assessing the paper, as well as feedback to the authors.)

The objective of this study is to determine the best data mining system to extract information of disease reported in Hospital. The issues was well discussed but there are lots of grammatical mistake and need to be corrected. Nevertheless, based on the knowledge contents, this paper is acceptable.

EDAS at 72.233.114.26 (Tue, 11 Mar 2014 03:45:24 -0400 EDT) [User 1058835: 0.126/0.222 s] [Request help](#)