Bambang Suprihatin <bambangs@unsri.ac.id>

Fwd: [ABS-49] Abstract Submitted to SICBAS 2018

2 pesan

Alfensi Faruk <alfensifaruk@unsri.ac.id> 18 Juni 2023 pukul 16.12
Kepada: Bambang Suprihatin <bambangs@unsri.ac.id>

Forwarded Conversation

Subject: [ABS-49] Abstract Submitted to SICBAS 2018

Dari: **SICBAS 2018** <sicbas2018.automail@interconf.org>
Date: Min, 5 Agu 2018 pukul 15.21
To: <alfensifaruk@unsri.ac.id>
Cc: <sicbas18@gmail.com>

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Dear Mr. Alfensi Faruk,

We have received the submission of your abstract:

Abstract ID:
ABS-49
Please use this "Abstract ID" in all correspondence (instead of abstract title).

Title:
Analysis of The Transmission of Dengue Fever Disease Using Suspected-Infected-Recovered (SIR) Model

Authors:
Alfensi Faruk (a*), Endro Setyo Cahyono (a), Bambang Suprihatin (a)

Institutions:
a) Department of Mathematics, Faculty of Mathematics and Natural Sciences, Sriwijaya University

Content:

Keywords:
Dengue fever transmission; SIR model; stability of equilibrium states

Topic:
Mathematics and Applied Mathematics

Presenter:
Alfensi Faruk

Type:
Oral Presentation

The Letter of Acceptance (LoA) and Letter of Invitation (LoI) can be downloaded directly from your account, once your abstract is accepted to be presented.

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Dear Mr. Alfensi Faruk,

We have received the submission of your abstract:

Abstract ID:
ABS-51
Please use this "Abstract ID" in all correspondence (instead of abstract title).

Title:
Analysis of The Transmission of Dengue Fever Disease Using Suspected-Infected-Recovered (SIR) Model

Authors:
Endro Setyo Cahyono (a), Alfensi Faruk (a*), Bambang Suprihatin (a)

Dari: **SICBAS 2018** <sicbas2018.automail@interconf.org>
Date: Min, 5 Agu 2018 pukul 16.17
To: <alfensifaruk@unsri.ac.id>
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Dear Mr. Alfensi Faruk,

We have received the submission of your abstract:

Abstract ID:
ABS-54
Please use this "Abstract ID" in all correspondence (instead of abstract title).

Title:
A Non-proportional Hazards Model with Time-dependent Covariates for Under-five Mortality in Indonesia

Authors:
Alfensi Faruk (a*), Endro Setyo Cahyono (a), Sari Mutiara Aisyah (b), Erlan Saputra (a)

Institutions:
(a) Department of Mathematics, Faculty of Mathematics and Natural Sciences, Sriwijaya University
(b) Department of International Relations, Faculty of Social and Political Sciences, Sriwijaya University

Content:

Keywords:
Non-proportional hazards; Under-five mortality; Time-dependent covariates

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Dari: **SICBAS 2018** <sicbas2018.automail@interconf.org>
Date: Min, 5 Agu 2018 pukul 19.32
To: <alfensifaruk@unsri.ac.id>
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Dear Mr. Alfensi Faruk,

We have received the submission of your abstract:

Abstract ID:
ABS-55
Please use this "Abstract ID" in all correspondence (instead of abstract title).

Title:
Support Vector Machine for Classification of Low Birth Weight in Indonesia

Authors:
Alfensi Faruk (a*), Endang Sri Kresnawati (a), Ning Eliyati (a), Ika Arifieni (a)

Institutions:
(a) Department of Mathematics, Faculty of Mathematics and Natural Sciences, Sriwijaya University

Content:
This paper proposes support vector machine (SVM), which is currently one of the most popular algorithms in machine learning (ML), in order to classify the low birth weight (LBW) data. The main aim of this study is to increase the accuracy rate of the classification of LBW data in Indonesia by using SVM as an ML algorithm. The samples are obtained based on the results of Indonesian Demographic and Health Survey (IDHS) 2012. Two R packages for the SVM algorithm, namely e1071 and rpart, were employed in this research. The results showed that the accuracy of SVM is better than the classical approach like binary logistics regression in classifying the LBW data set.

Keywords:
Machine Learning; Support vector machine; Low Birth Weight Data

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Bambang Suprihatin <bambangs@unsri.ac.id> 18 Juni 2023 pukul 17.55
Kepada: Bambang S <bambangs.s727@gmail.com>

---------- Pesan yang diteruskan ----------
Dari: **Alfensi Faruk** <alfensifaruk@unsri.ac.id>
Tgl: Minggu, 18 Juni 2023
Subjek: Fwd: [ABS-49] Abstract Submitted to SICBAS 2018
Kpd: Bambang Suprihatin <bambangs@unsri.ac.id>
[Kutipan teks disembunyikan]

Bambang Suprihatin <bambangs@unsri.ac.id>

Fwd: [ABS-54] Abstract Edited

2 pesan

Alfensi Faruk <alfensifaruk@unsri.ac.id> 18 Juni 2023 pukul 16.12
Kepada: Bambang Suprihatin <bambangs@unsri.ac.id>

Forwarded Conversation

Subject: [ABS-54] Abstract Edited

Dari: **SICBAS 2018** <sicbas2018.automail@interconf.org>
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Dear Mr. Alfensi Faruk,

Your abstract has been edited:

Abstract ID:
ABS-54
Please use this "Abstract ID" in all correspondence (instead of abstract title).

Title:
A Non-proportional Hazards Model with Time-dependent Covariates for Under-five Mortality in Indonesia

Authors:
Alfensi Faruk (a*), Endro Setyo Cahyono (a), Sari Mutiara Aisyah (b), Erlan Saputra (a)

Institutions:
(a) Department of Mathematics, Faculty of Mathematics and Natural Sciences, Sriwijaya University
(b) Department of International Relations, Faculty of Social and Political Sciences, Sriwijaya University

Content:
Cox proportional hazards (PH) is known as the most popular model for the analysis of multivariate survival data. The main assumption of the model is that the hazard ratio among any two individuals in the population is constant over time. The violation of this assumption, however, could cause serious issues such as overestimation or underestimation of hazard risks and reducing the power of related statistical tests. The main objective of this research, therefore, is to extend the Cox PH model by adding time-dependent covariates into the model to cope with the presence of non-PH. The proposed model, moreover, is applied to under-five mortality data based on Indonesian Demographic and Health Survey (IDHS) 2012 and compared with the Cox PH model using Akaike Information Criteria (AIC).

Keywords:
Non-proportional hazards; Under-five mortality; Time-dependent covariates

Topic:
Mathematics and Applied Mathematics

Presenter:
Alfensi Faruk

Type:
Oral Presentation

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Dear Mr. Alfensi Faruk,

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Title:
Analysis of The Transmission of Dengue Fever Disease Using Suspected-Infected-Recovered (SIR) Model

Authors:
Endro Setyo Cahyono (a), Alfensi Faruk (a*), Bambang Suprihatin (a)

Institutions:
a) Department of Mathematics, Faculty of Mathematics and Natural Sciences, Sriwijaya University

Content:
The Suspected-Infected-Recovered (SIR) model is proposed to analyze the dynamic transmission of dengue fever disease. The model comprises two main populations, namely human population and mosquitoes population as host and vector of dengue virus, respectively. Local and global stability of two equilibrium states (disease-free state and endemic state) of the transmission model is shown by using Routh-Hurwitz criteria. In addition, basic reproduction number (Ro), which is a threshold point of the dengue fever endemic occurrence in the population, is also investigated.

Keywords:
Dengue fever transmission; SIR model; stability of equilibrium states

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Bambang Suprihatin <bambangs@unsri.ac.id> 18 Juni 2023 pukul 17.55
Kepada: Bambang S <bambangs.s727@gmail.com>

---------- Pesan yang diteruskan ----------

Dari: **Alfensi Faruk** <alfensifaruk@unsri.ac.id>
Tgl: Minggu, 18 Juni 2023
Subjek: Fwd: [ABS-54] Abstract Edited
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