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Suparman, Mohd Saifullah Rusiman

Bootstrap-based Model Selection in Subset Polynomial Regression

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#173 Summary

SUMMARY REVIEW EDITING

Submission

Authors	Suparman Suparman, Mohd Saifullah Rusiman
Title	Bootstrap-based model selection in subset polynomial regression
Original file	173-606-1-SM.DOC 2018-04-06
Supp. files	None
Submitter	Suparman Suparman
Date submitted	April 6, 2018 - 07:47 PM
Section	Articles
Editor	Milad Yousefi
Author comments	None
Abstract Views	897

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Status

Status	Published Vol 4, No 2 (2018): July 2018
Initiated	2018-08-01
Last modified	2018-12-06

Submission Metadata

Authors

Name	Suparman Suparman
Affiliation	Universitas Ahmad Dahlan
Country	Indonesia
Competing interests CI POLICY	—
Bio Statement	—

Principal contact for editorial correspondence.

Name	Mohd Saifullah Rusiman
Affiliation	Universiti Tun Hussein Onn Malaysia
Country	Malaysia
Competing interests CI POLICY	—
Bio Statement	—

Title and Abstract

Title	Bootstrap-based model selection in subset polynomial regression
Abstract	The subset polynomial regression model is wider than the polynomial regression model. This study proposes an estimate of the parameters of the subset polynomial regression model with unknown error and distribution. The Bootstrap method is used to estimate the parameters of the subset polynomial regression model. Simulated data is used to test the performance of the Bootstrap method. The test results show that the bootstrap method can estimate well the parameters of the subset polynomial regression model.

Indexing

Keywords	Bootstrap algorithm; Subset polynomial; Regression; Model selection
Language	en

Supporting Agencies

Agencies	—

References

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ATOM 1.0
RSS 2.0
RSS 1.0

KEYWORDS

CNN Classification Deep learning EEG GPU Genetic algorithm Green turtle Hierarchical multi-label classification Iris recognition MSE Multi-label classification NLM Neural network OLS Ontology Optimization RBFNN Reduced difference expansion Scheduling Support Vector Machines (SVM) feature selection

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#173 Review

Submission

Authors	Suparman Suparman, Mohd Saifullah Rusiman
Title	Bootstrap-based model selection in subset polynomial regression
Section	Articles
Editor	Milad Yousefi

Peer Review

Round 1

Review Version	173-607-1-RV.DOC 2018-04-06
Initiated	2018-05-06
Last modified	2018-06-12
Uploaded file	Reviewer A 173-660-1-RV.PDF 2018-05-26

Editor Decision

Decision	Accept Submission 2018-06-28
Notify Editor	Editor/Author Email Record 2018-06-28
Editor Version	None
Author Version	173-692-3-ED.DOC 2018-06-25 DELETE
Upload Author Version	Choose File No file chosen Upload

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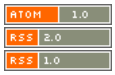

KEYWORDS

CNN Classification Deep learning EEG GPU Genetic algorithm Green turtle Hierarchical multi-label classification Iris recognition MSE Multi-label classification NLM Neural network OLS Ontology Optimization RBFNN Reduced difference expansion Scheduling Support Vector Machines (SVM) feature selection

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#173 Editing

SUMMARY REVIEW **EDITING**

Submission

Authors	Suparman Suparman, Mohd Saifullah Rusiman
Title	Bootstrap-based model selection in subset polynomial regression
Section	Articles
Editor	Milad Yousefi

Copyediting

COPYEDIT INSTRUCTIONS

Copyeditor Dr. Aji Prasetya Wibawa

REVIEW METADATA

		REQUEST	UNDERWAY	COMPLETE
1.	Initial Copyedit File: 173-728-2-CE.DOC 2018-07-17	2018-07-03	2018-07-16	2018-07-17
2.	Author Copyedit File: 173-746-1-CE.DOC 2018-07-19 Choose File No file chosen Upload	2018-07-17	2018-07-18	2018-07-19
3.	Final Copyedit File: None	2018-07-19	—	—

Copyedit Comments No Comments

Layout

Layout Editor None

Layout Version	REQUEST	UNDERWAY	COMPLETE	VIEWS
173-776-1-LE.PDF 2018-08-09	—	—	—	

Galley Format		FILE		
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Supplementary Files	FILE
	None

Layout Comments No Comments

Proofreading

Proofreader None

REVIEW METADATA

		REQUEST	UNDERWAY	COMPLETE
1.	Author	2018-08-09	2020-08-02	
2.	Proofreader	—	—	—
3.	Layout Editor	—	—	—

Proofreading Corrections No Comments PROOFING INSTRUCTIONS

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CURRENT ISSUE

ATOM 1.0
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KEYWORDS

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AHMAD DAHLAN

Suparman P Mat <suparman@pmat.uad.ac.id>

[IJAIN] Editor Decision

Dr. Milad Yousefi <yousefi.milad@gmail.com> Sun, May 27, 2018 at 5:33 PM
To: Suparman Suparman <suparmancict@yahoo.co.id>
Cc: Suparman Suparman <suparman@pmat.uad.ac.id>, ijain@uad.ac.id

Suparman Suparman:

We have reached a decision regarding your submission to International Journal of Advances in Intelligent Informatics, "Model Selection in Subset Polynomial Regression by Using Bootstrap Algorithm".

Our decision is: Revisions Required

Please kindly submit the revision before June 15th, 2018, and follow the IJAIN Author guidelines at http://ijain.org/index.php/IJAIN/about/submissions#authorGuidelines.

Regards,

Dr. Milad Yousefi
(Section Editor)

Reviewer A:

Significance:
- How important is the work reported? Does it attack an important/difficult problem (as opposed to a peripheral/simple one)?
- Does the approach offered advance the state of the art?
- Does it involve or synthesize ideas, methods, approaches from multiple disciplines?
- Does it have interesting implications for multiple disciplines?:
Fair

Originality: - Is this a new issue? Is this a novel approach to an issue? - Is this a novel combination of familiar ideas/techniques/methods/approaches? - Does the paper point out differences from related research? - Does the paper properly situate itself with respect to previous work?:
Fair

Quality: - Is the paper technically sound? How are its claims backed up? - Does it carefully evaluate the strengths and limitations of its contribution?:
Good

Clarity: - Is the paper clearly written? Does it motivate the research? Does it describe clearly the methods employed (e.g., experimental procedures, algorithms, analytical tools), if any? - Are the results, if any, described and evaluated thoroughly? - Is the paper organized in a sensible and logical fashion?:
Good

Relevance:
- Is the paper closely related to the theme of the journal (broadly conceived)?
- Is the content interesting enough to a broad audience?
- Is the paper readable in a multi-disciplinary context?:
Fair

Technical (1): Structure of the paper:
Good

Technical (2): Standard of English:
Good

Technical (3): Appropriateness of abstract as a description of the paper:
Good

Technical (4): Use and number of keywords/key phrases:
Fair

Technical (5): Relevance and clarity of drawings, graphs and tables:
Fair

Technical (6): Discussion and conclusions:
Good

Technical (7): Reference list, adequate and correctly cited:
Good

Explanations for the above ratings and other general comments on major issues:
The paper is well written but could be improved by adding a table of prediction and interval both from synthetic data and real data. Also could include some plots.

Comments on the minor details of the article:
Check for some minor errors.

Reviewer D:

Significance:
- How important is the work reported? Does it attack an important/difficult problem (as opposed to a peripheral/simple one)?
- Does the approach offered advance the state of the art?
- Does it involve or synthesize ideas, methods, approaches from multiple disciplines?
- Does it have interesting implications for multiple disciplines?:
Good

Originality: - Is this a new issue? Is this a novel approach to an issue? - Is this a novel combination of familiar ideas/techniques/methods/approaches? - Does the paper point out differences from related research? - Does the paper properly situate itself with respect to previous work?:
Good

Quality: - Is the paper technically sound? How are its claims backed up? - Does it carefully evaluate the strengths and limitations of its contribution?:
Fair

Clarity: - Is the paper clearly written? Does it motivate the research? Does it describe clearly the methods employed (e.g., experimental procedures, algorithms, analytical tools), if any? - Are the results, if any, described and evaluated thoroughly? - Is the paper organized in a sensible and logical fashion?:
Good

Relevance:
- Is the paper closely related to the theme of the journal (broadly conceived)?
- Is the content interesting enough to a broad audience?
- Is the paper readable in a multi-disciplinary context?:
Good

Technical (1): Structure of the paper:
Good

Technical (2): Standard of English:
Good

Technical (3): Appropriateness of abstract as a description of the paper:
Fair

Technical (4): Use and number of keywords/key phrases:
Good

Technical (5): Relevance and clarity of drawings, graphs and tables:
Fair

Technical (6): Discussion and conclusions:
Poor

Technical (7): Reference list, adequate and correctly cited:
Good

Explanations for the above ratings and other general comments on major issues:

In this paper, the author proposes to use Bootstrap algorithm to estimate the parameters of subset polynomial regression models. I recommend accepting this paper after major rewriting for the following considerations:

1. The paper is too dense, with little and sparse explanation. The author does not provide adequate information on many parts of the paper. For instance: in Section II.C it is not clear (a) how to do the resampling, (b) how to compute beta_boot, sigma^2_boot and y_boot, and (c) what is B and how does one determine it.
2. The reviewer thinks there are quite some inconsistency between the abstract and the content. The author claims in the abstract that the proposed method allows for estimation when the order of the polynomial is unknown. The reviewer does not see where this is substantiated and proved. In the case studies provided, the order of polynomials used is pre-determined, namely 2 and 3.
3. The author does not provide adequate explanation on the accompanying statistical criteria. Is this the reason why the proposed method does not have to assume that the errors are normally distributed? Nowhere in the paper that the author shows that the proposed method does not have to assume normal distributed error.
4. The reviewer does not see how the proposed method improves the estimation of the parameter compared to by simply using the least-square method, aside from the fact that in bootstrap algorithm an iterative operations are performed—in which the least-square method is being used—to obtain the best solution among several estimates.
5. The reviewer thinks that the case studies provided are too simple and does not show the strength of the method. Polynomial regressions of order 2 and 3 are simply to small that user can actually perform trial and method to obtain an optimal solution.
6. The reviewer thinks the author also should provide discussion on the merit and advantage of the proposed method. Is the method actually better than previous methods? How much better?

Comments on the minor details of the article:

1. Data in Table 2 is supposed to be motivated and elaborated. It is not actually clear to the reader what is being shown in the paper.
2. Equation (4) is supposed to be very similar to Equation (1) except for all betas becoming beta hat.
3. Right after Equation (6): “This is achieved by deferencing (6) partially to” —> “This is achieved by partially differentiating (6) to”.
4. Table 3 contains model of order 3, not 2.

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Suparman P Mat <suparman@pmat.uad.ac.id>

[IJAIN] Your paper #173 entitled Model Selection in Subset Polynomial Regression by Using

Andri Pranolo <andri.pranolo@tif.uad.ac.id> Wed, Jun 13, 2018 at 8:52 AM
To: Suparman Suparman <suparman@pmat.uad.ac.id>
Cc: ijain@uad.ac.id, yousefi.milad@gmail.com

Dear Authors

We would like to acknowledge you that we have received your final manuscript which was submitted on June 12, 2018. However, we still find the issues which should improve by your side.

_____
Reviewer Notes:
_____

1. Data in Table 2 is supposed to be motivated and elaborated. It is not actually clear to the reader what is being shown in the paper.
2. Equation (4) is supposed to be very similar to Equation (1) except for all betas becoming beta hat.
3. The paper is too dense, with little and sparse explanation. The author does not provide adequate information on many parts of the paper. For instance: in Section II.C it is not clear (a) how to do the resampling, (b) how to compute beta_boot, sigma^2_boot and y_boot, and (c) what is B and how does one determine it.
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7. The paper is well written but could be improved by adding a table of prediction and interval both from synthetic data and real data. Also could include some plots.

_____
Editor Notes
_____

References. Expect a minimum of 20 references primarily with minimum 60% to journal papers.

We will really appreciate if you can finish them by June 27, 2018. If in any case you do not wish to do the recommended improvement from the editors and/or reviewers, please inform us the background reason.

Warmest regards

Milad Yousefi
(Section Editor)

Andri Pranolo
(Managing Editor)

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Suparman P Mat <suparman@pmat.uad.ac.id>

[IJAIN] Editor Final Decision

Dr. Milad Yousefi <yousefi.milad@gmail.com> Thu, Jun 28, 2018 at 8:26 AM
To: Suparman Suparman <suparman@pmat.uad.ac.id>

Suparman Suparman:

We have reached a decision regarding your submission to International Journal of Advances in Intelligent Informatics, "Model Selection in Subset Polynomial Regression by Using Bootstrap Algorithm".

Our decision is to: Accept Submission

Please keep attention for the copy editing and proofreading process which are final publicity process on IJAIN Journal. Your paper is scheduled to be published in the upcoming Vol. 4, No. 2, July 2018 issue after we finished those process.

Regards

Milad Yousefi
(Section Editor)

Andri Pranolo
(Managing Editor)

Prof. Dr. Siti Mariyam Shamsuddin
(Editor-in-Chief)

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Suparman P Mat <suparman@pmat.uad.ac.id>

[IJAIN] Publication fee invoice for paper #173 Model Selection in Subset Polynomial Regression ..

Andri Pranolo <andri.pranolo@tif.uad.ac.id> Tue, Jul 3, 2018 at 6:55 PM
To: Suparman Suparman <suparman@pmat.uad.ac.id>
Cc: ijain@uad.ac.id

Dear Authors,

With this letter, it is our pleasure to inform you that your paper ID #173 entitled "Model Selection in Subset Polynomial Regression by Using Bootstrap Algorithm" for International Journal of Advances in Intelligent Informatics has been accepted for schedule publication in Vol 4 No 2 July 2018.

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Thank you for interesting to our Journal.

Sincerely,

Andri Pranolo
Managing Editor

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Suparman P Mat <suparman@pmat.uad.ac.id>

[IJAIN] Proofreading Request (Author)

Andri Pranolo <andri.pranolo@tif.uad.ac.id> Thu, Aug 9, 2018 at 9:32 PM
To: Suparman Suparman <suparman@pmat.uad.ac.id>
Cc: Milad Yousefi <yousefi.milad@gmail.com>

Suparman Suparman:

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