

## 2025 International Conference on Information Management and Technology (ICIMTech) : Submission (594) has been created.

1 message

Microsoft CMT <noreply@msr-cmt.org>

Tue, May 6, 2025 at 12:32 PM

To: joko\_siswanto@staff.ubaya.ac.id

Hello,

The following submission has been created.

Track Name: ICIMTech2025

Paper ID: 594

Paper Title: Systematic Literature Review of Hybrid Metaheuristic Algorithms for Feature Selection in Classification Tasks

### Abstract:

The growth in dataset size and complexity has made feature selection a more critical issue for machine learning, aiming at improving model performance with a reduction in dimensionality and computational expense. Metaheuristic optimization techniques have shown promise for feature selection but are often marred by the problems of premature convergence and sensitivity to parameters. To address these challenges, hybrid metaheuristic approaches have been proposed to combine the best aspects of different algorithms in order to enhance search capabilities and solution quality. This systematic literature review discusses hybrid metaheuristic algorithms for feature selection in response to three research questions: identifying the hybrid algorithms used and their domains of application, evaluating their effectiveness, and examining existing challenges and research gaps. Following the PRISMA framework, 40 related studies appearing between 2020 and 2025 were selected and assessed. Review outcomes show that hybrid approaches always outperform standalone methods with superior classification accuracy and larger feature reduction. However, challenges such as increased complexity, limited usage, and non-uniform practice still exist. Future research must delve into developing more robust and effective hybrid algorithms and demonstrate their performance across different data sets and classifiers.

Created on: Tue, 06 May 2025 05:32:21 GMT

Last Modified: Tue, 06 May 2025 05:32:21 GMT

### Authors:

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- [joko\\_siswanto@staff.ubaya.ac.id](mailto:joko_siswanto@staff.ubaya.ac.id) (Primary)

Primary Subject Area: Artificial Intelligence and Machine Learning

Secondary Subject Areas: Not Entered

### Submission Files:

slr formatted.docx (318 Kb, Tue, 06 May 2025 05:29:17 GMT)

### Submission Questions Response:

1. If this paper is accepted for presentation at ICIMTech 2025, what is the planned presentation mode that will be chosen?

Online Presentation (28th - 29th August 2025)

2. Number Phone First Author  
+6283849409952

3. Number Phone Second Author  
[Not Answered]

4. Number Phone Third Author  
[Not Answered]

5. Number Phone Fourth Author  
[Not Answered]

6. Number Phone Fifth Author

[Not Answered]

7. Number Phone Sixth Author

[Not Answered]

8. Social Media (Corresponding Author)

[https://www.researchgate.net/profile/Joko\\_Siswanto](https://www.researchgate.net/profile/Joko_Siswanto)

9. The submission has not been previously published or is under consideration of another proceeding/journal

Agreement accepted

10. Authors are not allowed to withdraw the manuscript that has already received reviewer comments. Otherwise, they will be banned from submitting to ICIMTech for the next two years, and any currently active manuscript will be considered withdrawn

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15. Authors are required to prepare their manuscripts using IEEE template

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16. The length of the manuscript MUST be in between 4 and 6 pages

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17. Title must be clear, maximum contains of 13 words, and no abbreviation on title

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18. Manuscripts must be written in FULL ENGLISH, please check the gramatically error and proof read your manuscript before submission

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19. Abstract consists of minimum 150 to a maximum of 250 words. Abstract consisted of Background, Objective, Methods, Results, and Conclusion. The number of keywords in the abstract is between 4 and 6

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20. The figures used must be of high resolution, and all information contained within the images must be in English. If any information is not in English, the author is required to provide annotations in English.

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24. The use of content generated by artificial intelligence (AI) in a paper, including but not limited to text, figures, images, and code or for writting enhancement should be disclosed in the acknowledgements section. Our policy sets a maximum limit of 20% of AI usage

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## ICIMTech2025 - Acceptance Letter

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Microsoft CMT <noreply@msr-cmt.org>

Thu, Jul 10, 2025 at 2:18 PM

To: Joko Siswanto <joko\_siswanto@staff.ubaya.ac.id>

Dear Joko Siswanto,

Congratulations, your submission Systematic Literature Review of Hybrid Metaheuristic Algorithms for Feature Selection in Classification Tasks has been accepted for presentation at 2025 International Conference on Information Management and Technology (ICIMTech 2025) which is being held on 28-29 August 2025, at YELLO Hotel Paskal - Bandung, Indonesia. You can access the latest information about ICIMTech via the website <https://sis.binus.ac.id/icimtech>

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Another document needs to be completed and further information will be sent through another email, the detail of next email are:

1. Information about conference registration and payment will be sent through [finance.icimtech@binus.ac.id](mailto:finance.icimtech@binus.ac.id)
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for detail information can be accessed through the following link: <https://sis.binus.ac.id/icimtech/post/instructions-for-camera-ready-2/>

If all steps above are not done before the deadline then the LoA is not valid.

Thank you and looking forward to your participation in this event and see you at Bandung, Indonesia.

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Best Regards,

ICIMTech Secretary

2025 International Conference on Information Management and Technology (ICIMTech 2025)

28 -29 August 2025, Bandung, Indonesia

Organized by School of Information Systems, BINUS University, Jakarta, Indonesia

[icimtech@binus.ac.id](mailto:icimtech@binus.ac.id)

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