
NCAA-D-20-01766 - Editor Decision

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Neural Computing and Applications (NCAA) <em@editorialmanager.com>

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Válaszcím: "Neural Computing and Applications (NCAA)" <rashmi.jenna@springernature.com>

Címzett: Patrik Reizinger <rpatrik1996@gmail.com>

You are being carbon copied ("cc:d") on an e-mail "To" "Márton Szemenyei" szemenyei@iit.bme.hu
CC: "Patrik Reizinger" rpatrik1996@gmail.com

Dear Mr. Szemenyei,

We have received the reports from our advisors on your manuscript, "Learning in Multi-Agent Environments with Partial Observations via Self-Supervised Reconstruction and Prediction", which you submitted to Neural Computing and Applications.

Based on the advice received, the Editor feels that your manuscript could be reconsidered for publication should you be prepared to incorporate the major revisions recommended by the reviewers.

When preparing your revised manuscript, you are asked to carefully consider the reviewer comments which are attached, and submit a list of responses to the comments.

Your list of responses should be uploaded as a file in addition to your revised manuscript.

Your revised manuscript will be sent back to the reviewers to allow them to confirm that the changes address the issues they have set out in their review comments, and that the revised manuscript is acceptable for publication.

"Please make sure to submit your editable source files (i. e. Word, TeX)."

In order to submit your revised manuscript electronically, please access the journal's website.

Your username is: *****

If you forgot your password, you can click the 'Send Login Details' link on the EM Login page at <https://www.editorialmanager.com/ncaa/>.

Please click "Author Login" to submit your revision.

If you need any further help, please use the "Contact Us" link in the banner at the top of the Editorial Manager website.

We look forward to receiving your revised manuscript before 28 May 2021.

Best regards,
Milan Stehlik, Ph.D.
Associate Editor
Neural Computing and Applications

COMMENTS FOR THE AUTHOR:

Dear Authors, your manuscript may be potentially an interesting contribution for NCAA.
A careful addressing of all queries of Reviewers is needed.

Looking forward receiving your updated manuscript.
Your sincerely, AE

Reviewer #2: Authors have highlighted the emerging and core issue, but still there are major issues to be fixed.
Reviews to Authors

- * Title must be simple, clearer and nicer.

- * Spell out each acronym the first time used in the body of the paper. Spell out acronyms in the Abstract by extending it.

- * The abstract can be rewritten to be more meaningful. The authors should add more details about their final results in the abstract. Abstract should clarify what is exactly proposed (the technical contribution) and how the proposed approach is validated.

- * What is the motivation of the proposed work?

- * Introduction needs to explain the main contributions of the work clearer.
 - * The novelty of this paper is not clear. The difference between present work and previous Works should be highlighted.
 - * Authors must explain in detail the introduction section.
 - * Authors must develop the framework/architecture of the proposed methods
 - * There is need of flowchart and pseudocode of the proposed techniques
 - * Proposed methods should be compared with the state-of-the-art existing techniques
 - * Research gaps, objectives of the proposed work should be clearly justified.
 - * The authors should consider more recent research done in the field of their study (especially in the years 2017 and 2018/2019 onwards). To improve the introduction and related work authors are highly recommended to put the latest bibliography <Chapter#16: Energy-efficiency in Wireless Body Sensor Networks", Book Title: Networks of the Future Architectures, Technologies, and Implementations, Chapman & Hall/CRC Computer and Information Science Series, pp.492, CRC Press (Taylor & Francis Group), Oct. 2017 >, < A Multi-sensor Data Fusion Enabled Ensemble Approach for Medical Data from Body Sensor Networks', Information Fusion, Elsevier, Vol. 53, No.2020, pp.155-164, 2020>, <Artificial Intelligence Driven Mechanism for Edge Computing based Industrial Applications", IEEE Transaction on Industrial Informatics, March 6, 2019 , DoI: 10.1109/TII.2019.2902878>, <"Towards Machine Learning Enabled Security Framework for IoT-based Healthcare" In 13th IEEE International Conference on Sensing Technology (ICST), Sydney, Australia, Australia, pp. 1-6. 2019>, <Energy-efficient Adaptive Transmission Power Control in Wireless Body Area Networks", IET Communications, Vol.10, No.1, pp.81-90, Jan.2016>, < A Novel Energy Optimization Approach for Artificial Intelligence-enabled Massive Internet of Things', IEEE International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS) 2019, Berlin, Germany, Germany 22-24 July 2019, pp.1-6 > ,
 - * English must be revised throughout the manuscript.
 - * Limitations and Highlights of the proposed methods must be addressed properly
 - * Experimental results are not convincing, so authors must give more results to justify their proposal.
- Finally, paper needs major improvements

Reviewer #5: Authors discusses potentially an interesting application. However, more experimentation will be needed and better presentation of both the neural computing elements and experimentation. Manuscript can be potentially of interest for NCAA, after fixing the following Major Comments.

Major Comment 1:

For processing of these data (e.g. for the prediction purposes), the performance of neural network is very important. Referee doubts on performance of sigmoid activation as activation function. SPOCU transfer function has been developed in order to outperform also sigmoid, see DOI: 10.1007/s00521-020-05182-1
Comparison of performance of sigmoid and SPOCU is needed.

Major Comment 2: algorithm in current version of the manuscript is explained too tersely. All architecture should be discussed in more statistical detail.

Major Comment 3: Estimation of parameters is not discussed sufficiently. This should be added.

Major Comment 4: what is the novelty? All methods are well known. Authors needs to clearly explain their novelty from NCAA perspective.

Major Comment 5:

More experimentation is needed in order to justify the quality of the methodology.

Major Comment 6: Provide a comparison study with results of related methods. What are the limitations?

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****Our flexible approach during the COVID-19 pandemic****

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