

OPINION

on a dissertation for obtaining the educational and scientific degree "**doctor**" in: field of higher education 5. Technical sciences, professional field 5.13 "General Engineering", scientific specialty "Ergonomics and Industrial Design"

Author of the dissertation: Eng. Des. Ralitsa Georgieva Stavreva - Pancheva full-time, at the Department of Interior and Furniture Design at the University of Forestry, Sofia

Topic of the dissertation: Design and problems of the small city dwelling for one inhabitant

Member of the scientific jury:

Prof. Dr. Maria Dimitrova Evtimova

TU-Sofia, 5. Technical sciences, professional field 5.13 "General Engineering", scientific specialty Ergonomics and Industrial Design, appointed a member of the scientific jury by order № 161/11. 04. 2022

1. Relevance of the problem.

The problem of "small housing" in the present, especially in the "urban structure" is extremely relevant. Eng. Des. Ralitsa Georgieva Stavreva - Pancheva analyzes, systematizes and offers design solutions "as a tool for dealing with major global changes" in her dissertation.

2. Degree of knowledge of the state of the problem and creative interpretation of the literature review.

The cited sources, the analyzes and especially the synthesis of the literature review are interpreted and presented with emphasized professional language.

3. Purpose, tasks, hypotheses and research methods. Correspondence of the chosen research methodology with the set goal and tasks of the dissertation.

The tasks are correctly defined as per the well-formulated goal. The hypotheses are supported not only by theoretical justifications, but also by richly selected illustrative material. The chosen methodology corresponds to the set goal and objectives of the dissertation. The variety of methods used in the analyzes and surveys is justified by the set tasks.

4. Visualization and presentation of the obtained results.

The work includes diagrams and photos that illustrate the results of research and proposed design solutions for a small urban home for one resident.

5. Discussion of the results and used literature.

There are numerous hypotheses and design decisions. The provided literature is correctly cited, and it is noteworthy that the *design solutions of the furniture belong to certain companies existing on the market.*

6. Contributions of the dissertation.

The contributions are comprehensive and correspond to the solved problems in the dissertation.

Scientific contributions

The summary of the proposed contribution moments is correct, but can be expressed in a shorter and more generalized form.

Scientific and applied contributions

In addition to the ones presented, the role of design decisions should be emphasized, as a creative interpretation of the author, as a design-based choice.

7. Assessment of the degree of personal participation of the dissertation in the contributions.

The contributions are specifically derived from the overall look of this impressive volume of work.

8. Critical remarks and questions.

Shorter and synthesized, generalized formulations of the input material. As a recommendation, I would suggest, according to the volume of the dissertation, to publish two books with the same title: *First book* - the research and analysis of the First and Second chapters; *Second book* as a separate album - empirical research and proposed rationally applicable furniture and systems, including original design solutions for a particular architectural environment, indicating a variety of color solutions.

9. Published articles and citations.

The content and volume of these publications correspond to the content of the dissertation.

10. Evaluation of the publications on the dissertation: number, nature of the publications in which they are printed. Reflections in science - use and citation by other authors.

The mentioned publications and reports are in scientific journals and editions of scientific conference proceedings, which create a precondition for citations by other authors. The presented abstract objectively reflects the structure and content of the dissertation.

CONCLUSION:

Based on the scientific and applied works of the doctoral student, different research methods, correctly performed experiments, summaries and conclusions, I believe that the presented dissertation meets the requirements of LDACRB (3PACPE) and the Rules of the University of Forestry for its application, which gives me reason to evaluate it **positively**. I would like to suggest to the esteemed Scientific Jury also to vote positively and to award Eng. Des. Ralitsa Georgieva Stavreva - Pancheva educational and scientific degree "**doctor**" in the scientific specialty 5.13 "General Engineering", scientific specialty "Ergonomics and Industrial Design".

Date: 06. 06. 2022.....
Sofia

PRESENTING
OPINION:
(Prof. Dr. M. Evtimova)