



STATEMENT

By: Prof. Eng. Emiliya Andonova Dimitrova, PhD

Higher School/University: Todor Kableshev University of Transport - Sofia

Doctoral program: "Theoretical foundations of communication technology"

Field of higher education: 5. Technical sciences

Professional direction: 5.3. Communication and computer technology

Regarding: Dissertation for conferring the ONS "Doctor" on

Professional direction:

5.3. Communication and computer technology

Doctoral program:

"Theoretical foundations of communication technology"

Department of "Information Technologies", UTP.

Author of the dissertation: Todor Gospodinov Gospodinov

Dissertation topic: "Research into the possibilities for data transfer and management during crises in the Republic of Bulgaria"

Basis for presenting the statement: participation in the scientific jury for the defense of a dissertation, in accordance with the Order № 3-UPA-206/18.12.2025 of the Vice-Rector for educational process and accreditation, UTP.



1. Brief information about the PhD student

Todor Gospodinov is a lecturer in Information Technologies at the UTP and a PhD student in the Department of Information Technologies.

2. General characteristics of the presented dissertation work

The dissertation develops methodologies related to ensuring the efficiency of mobile cellular networks in the event of incidents and natural disasters in order to provide early notification and warning of the population. The processes of radio coverage are studied, simulation models are synthesized and practical experiments are conducted to provide opportunities for better service in mobile cellular networks in crisis conditions. The development includes an introduction, five chapters, a conclusion, a list of the main contributions, and a bibliography. At the end of the introduction, the purpose of the dissertation is formulated and the main tasks in conducting the research are summarized.

3. Degree of knowledge on the research topic by the PhD student and relevance of the dissertation

The problems studied are topical - they are related to the wide penetration of mobile communications and new ways of notification through the BG-alert, eCall and Advanced mobile location systems, which provide great opportunities, but a balance is needed between commercial mobile networks and ensuring connection in emergency circumstances in order to ensure and develop secure communications between specialized crisis response units, as well as alternatives for connection at the regional level in the event of failure of national networks.

4. Assessment of scientific and applied scientific contributions

I agree in essence with the proposed six contributions of the dissertation work, classified by the PhD student as scientifically applied and applied.

Contributions can be attributed to *Formulation and justification of a new scientific problem; Creation of new methods, models, constructions; Obtaining confirmatory facts.*

5. Assessment of publications on the dissertation

Four publications have been presented on the dissertation work, three of them are in sole authorship, one is co-authored with the scientific supervisor (the PhD student is the first author). Two articles have been published in the Yearbook of the UTP and two reports have been presented at forums organized by the UTP. The PhD student declares 50 points under Indicator G of the minimum national requirements.

6. Evaluation of the abstract

The abstract is structured in a total volume of 49 pages, A4 format. It represents a sufficient sample of the dissertation work. The main research, results and conclusions, as well as the contributions and publications related to the dissertation are reflected.

I believe that the Abstract meets the requirements and reflects a sufficient part of the achieved results. An annotation in English is not presented, as required.

7. Conclusion on absence/presence of plagiarism

No plagiarism was found in the submitted materials.

8. Critical notes, recommendations and questions

I have no significant comments on the dissertation presented, which is developed in a good style. I have some recommendations and comments of a technical nature:

- It is desirable that the bibliography be arranged according to the requirements (in alphabetical order: first – technical literature in Cyrillic, then – in Latin; laws, regulations, standards, technical specifications and internet links). It is appropriate that the author's publications should not be included in the literature used.

- Several punctuation errors and incorrect articulation are noted.

- The abstract does not include an English annotation, as required.

I recommend that the PhD student publish in editions referenced in Scopus or Web of Science.

The recommendations and remarks made do not diminish the value of the work. They can be easily removed in the official (electronic) version of the Dissertation and the Abstract before depositing with NACID.

I believe that the PhD student owns in-depth theoretical knowledge by the subject matter, as well as abilities for conducting on scientific research and practical implementation on achieved results.

9. Conclusion

The presented dissertation meets the requirements of the Act on the Development of Academic Staff in the Republic of Bulgaria and the Regulations of the UTII. The achieved results give me reason to propose to the scientific jury to award the educational and scientific degree "DOCTOR" to Todor Gospodinov Gospodinov in the field of higher education 5. Technical Sciences, professional field 5.3. "Communication and computer technology", doctoral program "Theoretical Foundations of Communication Technology".

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