

IEEE and EESTEC Student Paper Contest

“TESLA – Neverending Story”

July 8th-16th, 2006

GENERAL

1. These rules are composed basing on "Rules of the Student Paper Contest of IEEE Region 8."
2. The IEEE and EESTEC Student Paper Contest and Conference “Tesla - Neverending Story” are organized by the IEEE Belgrade Student Branch, EESTEC Belgrade Local Committee and School of Electrical Engineering, University of Belgrade. IEEE and EESTEC Student Members decided to mark the beginning of the Contest in the year of celebration of 150 years from the birth of great scientist Nikola Tesla. The final of the Contest will be held in Belgrade, Serbia and Montenegro, on July 8th-16th, 2006, as a part of the Conference “Tesla - Neverending Story”. We hope that the Contest will achieve huge success and that it will be officially organized every next year.
3. The Contest is global, meaning it is open for IEEE and EESTEC students from the whole world.
4. A professional jury will grade the essays and the written papers without knowledge of the identity of the author and of his school, and will decide which papers will be accepted for presentation at the oral finals. It has to be emphasized that the essay on a theme “Tesla – Neverending Story” is the obligatory part of the Contest.
5. If accepted for the oral finals, the paper must be presented by one person only, although it may be authored by more than one. Name(s) and important data of the advisor(s) (if any) should be listed as well.
6. Although the original paper may be written in any language, the paper that is submitted to the “Tesla – Neverending Story” Contest should be in English. The oral presentation shall be in English, as well.
7. The author who will present the paper should be listed as the first author of the paper. He or she must be a member of the IEEE or a member of an EESTEC LC at the time of the final paper submission deadline (June 10th). The intention of a participant to become IEEE/EESTEC member must be confirmed during the submission of the abstract, and as a part of online registration.
8. The Contest will include both the undergraduate and the post-graduate students. Neither master nor doctoral thesis will be considered.
9. When entering a paper in the IEEE and EESTEC Contest, the Counselor (Student Branch Counselor; Adviser of the paper; the Dean of School...) should provide a document certifying that conditions 7 and 8 are fulfilled.
10. Published work is excluded from the Contest. Any paper subsequently published should mention an acknowledgement of the received award.
11. The final of the Contest will be a part of the Conference which will last eight days (8th-16th). Programme will also include attending in official ceremony of celebration of 150 years of birth of Nikola Tesla, visits of Belgrade famous sites, the Nikola Tesla Museum, weekend excursion to the mountain resort in Serbia... Living expenses which may occur while attending the Contest and the Conference (food, accommodation, excursion...) will be provided by the Organizing Committee. The participants themselves will pay travel expenses (arrival to Belgrade and return home) and visa in case it is necessary.
12. For some nationalities it is necessary to obtain visa in order to visit Serbia and Montenegro. Participants should notify organizers if this is the case, so we could provide adequate invitation letters on time.
13. The Organizing Committee is offering three prizes (for the year 2006 amounts are respectively 1000, 500 and 300 US dollars). The best essay will receive special prize.
14. All of the essays and papers that have been accepted will be published. The electronic version of the finalists' papers will also be published in the Contest and Conference web pages.

<http://www.tesla2006.org>

GRADING

15. The professional jury consisted of eminent professors (IEEE Fellows, IEEE Chapter Officials, Members of Serbian Academy of Sciences and Arts...) will evaluate the submitted papers. Specially selected jury will evaluate the essay as well.
16. The contributions are graded as follows:
 - essay: 10 points
 - written paper
 - content: 40 points
 - presentation: 20 points
 - oral presentation: 30 points
17. A preliminary selection based on the written document may be made by the members of the jury, either if too many papers are submitted or if some papers do not reach the expected level. Up to 40 authors will be invited to participate in the Conference. The best papers will be selected for the oral finals of the Contest.

CHARACTER OF THE PAPER

18. Papers should cover technical and engineering aspects of a subject reasonably within or related to the areas of electrical engineering.
19. Essays are obligatory and they should treat the theme “Tesla - Neverending Story” in an original way.
20. The work need not be original in engineering content, but should be original in treatment and concise in coverage of the author's contribution to the subject.

DOCUMENT LAYOUT

21. The paper must be written on A4 size paper (210mm × 297mm) with the margins of 2cm (top and bottom) and 1.5cm (left and right). A font size of 10 pt or larger should be used. The two-column style (with the space between columns equal to 0.5 cm) is preferred; Note that the present document is in the two-column style with a font size of 10 pt.)
22. The paper should not exceed six (6) pages. Overlength papers will not be considered for the Contest!

PAPER SUBMISSION

23. The electronic version (PDF format) accompanied by the Student Paper Cover

Sheet, must be sent by electronic mail to the “Tesla - Neverending Story” Contest coordinator:

Irena Jankovic,
Secretary of IEEE Belgrade Student Branch
Teaching Assistant
University of Belgrade
School of Electrical Engineering, room 66a
Bulevar Kralja Aleksandra 73,
11000 Belgrade
E-mail: papers@tesla2006.org

24. **The submission deadline for the essays and the abstracts is May 10th.** After the submission of the abstracts, contesters will receive usernames and passwords so they could proceed with the online registration.
25. **The submission deadline for the completely finished papers is June 10th.**

ORAL PRESENTATION

26. Those authors selected to give an oral presentation should develop a pleasant and logical presentation of the subject matter fitted to 20 minutes. The jury will question each contestant for an additional period of 10 minutes typical.
27. An electronic presentation – based on Power Point, for instance using a beamer (LCD data projector) is preferred. Additional presentation tools may be provided if a request is made and granted in advance.
28. The presentation should not attempt to cover the entire paper, but rather to give a general idea and enlarge on one or two specific points.

AUTHOR GUIDELINES ON PAPER LAYOUT

The following guidelines are suggested to assist grading by providing a uniform layout. In general the paper should be organized as follows:

Student Paper Cover Sheet. Since the judges must handle the papers without knowledge of the identity of the author and his educational establishment, it is required that the paper itself show no such identification other than the title. The title, author(s) name(s) and IEEE/EESTEC membership data, corresponding author's address, school etc. must be shown on a removable cover sheet. The Counselor's document should be removable too.

Essay. The essay is a part of the Contest which offers to the author a chance for creativity, but with a purpose to make the young scientists closer to the work and life of Nikola Tesla. The original approach to a theme of the Contest will be appreciated the most.

Title page. The title should consist of the minimum number of key words necessary to portray accurately

the content of the paper. Readers' interest is stimulated by a well-chosen title. The author's name should not appear on the title page, nor should any other name of persons or schools.

Abstract. The abstract should not describe the paper, but should give in brief the essential facts of its content, for example, a brief statement of the problem or objective and a concise summary of results or conclusions, touching upon methods or other details only if they are unique or if they are of some particular significance. The abstract should be no longer than 100 words.

Introduction. The introduction should lead to the development of the subject so that the reader may obtain a clear understanding of the significance of the paper. This often can be done by giving briefly the state of the art as background. Then bring out the added advantages of the method of approach and emphasize the importance of the results or conclusions.

Body. The main argument of the development of the subject is carried out in the body of the paper, complete with supporting data. The argument should proceed in a logical sequence according to a prepared outline. The writing should be in the third person. Supporting data and results can often be presented most effectively as curves, charts or tables. Well-known abbreviations may be used in the text but should be defined where used the first time, followed by the abbreviation in parentheses. Generally the use of abbreviations should be confined to not duplicate text matter.

Conclusion. The conclusions are often considered the most important part of a paper. They should be stated concisely in a separate section at the end of the paper. If there are three or more conclusions, greater emphasis can be obtained by numbering each conclusion and setting it off in a separate paragraph.

Tables. Tables should be numbered consecutively using Roman numerals. Small tabulations or listings may be made in the text where necessary for continuity. Each table should be titled by giving a brief description as a heading following the table number at the top. Ditto marks should not be used in tables, but brackets may be used to group information common to several lines.

Diagrams. Three types of diagrams may be used: photographs, oscillograms, line drawings. Keep reading matter on illustrations to a minimum; include it in the captions. Portions of illustrations may be identified by letters and explained in the captions. Whenever feasible, combine several

curves on the same co-ordinates. Their identifying letters or numbers should be in clear spaces between cross-section lines. If it is necessary to place data over cross-section lines, erase these lines.

Appendices. Detailed mathematical proofs, development of equations, and examples which are subordinate to the main argument in the body of a paper, but not essential to following the argument, should be treated in appendices. References are made in the text to details in the appendices. Main equations as they are developed should be numbered consecutively, with the number in parentheses opposite the equation in the right hand margin.

References. Any information or development taken from books, periodicals or courses, i.e. from any external source, should be clearly referenced in the text and a suitable reference list should be appended to enable the reader to consult those sources. References should be numbered consecutively and should follow the form shown below:

- For a periodical: R. N. Hall, "Power rectifiers and transistors," Proc. IRE, vol. 40, pp. 1512–1519, November 1952.
- For a book: W. A. Edison, Vacuum Tube Oscillators, Wiley, New York, pp. 170–171, 1948.

JURY GUIDELINES ON GRADING THE PAPER

The following criteria are suggested to provide a uniform grading standard:

- a. Do the authors present their independent work?
- b. Is the significant amount of presented work new? Do the authors present a novel interpretation of some existing work?
- c. Is the subject matter of substantial technical content and is it presented at an acceptably advanced level?
- d. Is the 100-word abstract concise, informative and accurate?
- e. Does the written presentation include a satisfactory introduction which properly orients the reader with respect to the general area with which the paper deals? Does the concluding portion of the paper summarize the reader's impression of what the work has accomplished? Are the conclusions supported by evidence?
- f. Does the exposition (and analysis which may be involved) proceed in an orderly and logical manner? Is the paper self-contained?
- g. Does the author exhibit ingenuity and resourcefulness in methods of presentation, choice of illustrations, use of analogies and the like?
- h. Is the paper technically accurate?

March 1st, 2006