PREPARATION OF PAPERS FOR CPEE

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First and last names of authors

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Affiliation (font: Times New Roman, type size 10, line spacing: 1.1; *style **Affiliation***)

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Abstract: These instructions give you guidelines for preparing papers for *CPEE* scientific journal that you can find in such valuable databases as Index Copernicus and Ulrich's Web The abstract of a submitted paper should reflect the structure of the paper and include an introduction, a purpose, objectives, the description of methods, results, and a conclusion. It should also briefly present the essence of the work and its novelty. The abstract should have the structure specified above in compliance with SCOPUS requirements and consist of about 600-700 symbols. Your article should consist of even number of pages (at least 4 pages).

Key words: should reflect the content of the work, be specific to an industry pertaining to the presented work, and comprise no more than five semantic concepts.

1. Introduction (Style Header1)

The article should include a short review of sources pertaining to the topic, purpose and objectives of the research, the description of methods, analysis of obtained results, and a conclusion. The paper has to show novelty of the work.

Section headings – font: Times New Roman, type size 10, the interval before the line: 6 pt. (Style *Header1)*. The introduction should be concise and clear; a connection with previous works may be shown.

2. Text formatting

The paper is submitted to *cpee_journal@yahoo.com*. The text is typed in a text editor, Microsoft Word 2000 or Word 2003. The paper is prepared using A4 page format (210 × 297 mm). Margins: left 18 mm, right 25 mm, upper 20 mm, bottom 27 mm. The text is written in two-column format, the space between the columns is of 5 mm. The indentation is set at 6 mm. Font: Times New Roman, type size 10, spacing 1.1 (Style ***Normal***). All pages must be numbered; the first page is the page with the paper title. Figures and tables are inserted in the text and, additionally, submitted as separate files. *Please make sure that the columns on the last page are of the same length!!!*

3. Equations

Equations are written using the format of ***Equation 2–4***, they are placed in the center of a line and numbered using parentheses located on the right side of the line. The equation editor MS Word is defined as follows:

normal – 11 pt, index –7 pt, small index – 5 pt, symbol – 12 pt, small symbol – 11 pt. Equations are formatted using the ***Equation*** style. The interval before the equation is of 6 pt, the interval after the equation is of 3 pt. Please use TAB-key to identify the position of the formula and its number in a line.

Styles used: variable – italic, vector – italic with upper arrow, matrix – bold. Such styles do not put any limitations on usage of non-Latin symbols – they may be either italic or straight because the distinguishing feature of a vector is a presence of an upper arrow while the distinguishing feature of a matrix is its bold appearance.

The following equation (1) is given as an example:

$$\begin{cases} \vec{x}(k+1) = \mathbf{F}\vec{x}(k) + \mathbf{G}\vec{v}(k) + \vec{\Phi}\left(\vec{x}(k), \vec{v}(k) \right) \\ \vec{y}(k+1) = \mathbf{C}\vec{x}(k+1) + \mathbf{D}\vec{v}(k+1), \end{cases} \qquad (1)$$

where $\vec{v}$ – the vector of input data; $\vec{y}$ – the vector of output data; $\vec{x}$ – the vector of the variables that describe the state of an object; $\mathbf{F}$, $\mathbf{G}$, $\mathbf{C}$, $\mathbf{D}$ – the matrices of macromodel coefficients; $\vec{\Phi}$ – an unlinear vector-function; k – the number of an iteration step (style ***EquationComment***).

4. Tables

Tables are inserted in the text and also submitted as ***separate files*** in the format ***MS Excel*** or ***MS Word***. The body type size of a table – 8, the title type size – 10 (style ***TableBody***). The title is placed at the center of the table in bold (style ***TableName***); the number of the table (if there is more than one table) is placed on the right of the table in italics (style ***TableNumber***). The interval before the word *Table* is of 6 pt, the interval after the title is of 6 pt. There is one empty line after the table.

Table 1

The title of a table

Month	Object	Model	Month	Object	Model
January	11855	10349	July	9017	8604
February	9536	9822	August	8789	8793
March	9941	9372	September	8938	9219
April	9100	9007	October	10494	9951
May	8196	8743	November	10625	11082
June	8437	8600	December	12864	12739

5. Figures

Pictures, graphics, and photographs are inserted in the text and, additionally, submitted as separate **graphic** files in the form of **separate** objects that may be corrected or changed; their dimensions have to meet the page requirements (style **Figure**). The figures are signed and numbered (if there is more than one figure) beneath; the captions are centered and typed using size 9, in italics (style **FigureName**). Photos and photocopies must be legible and clear and suitable for copying. All images must be bitmap and saved in *.tiff or *.jpeg format with a resolution of at least 300 dpi. The interval before the figure is of 6 pt, the interval after the figure is zero. The interval before and after the figure caption is of 6 pt.
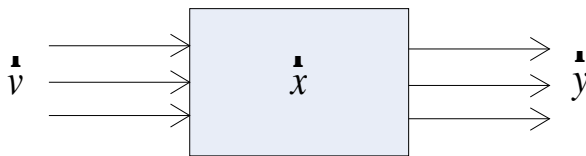
Fig. 1. The description of a macromodel object.

6. Conclusion

The main results of the work are outlined; their importance is emphasized, and the examples of their possible application are described.

7. References

References are numbered in the order in which sources are cited or mentioned in the text, in square brackets.

First and last names of authors and titles of journals in languages that do not use Latin alphabet (e. g. Ukrainian) are typed using Latin letters, font: Times New Roman, type size 10, line spacing 1.1 (style **References**).

The references to articles published in magazines, collections, and conference proceedings may have the following structure: authors' names (transliteration if necessary), the title of the paper in English, the name of the source (transliteration if necessary), publishing data, and the indication of the language the article is written in (in parentheses) if it is different from English. The transliteration of Ukrainian sources should be done in compliance with the Resolution of the Cabinet of Ministers of Ukraine of January 27, 2010, No. 55 "On Latin transliteration rules of the Ukrainian alphabet" (http://zakon4.rada.gov.ua/laws/show/55-2010-%D0%BF/conv?test=XX7MfyrCSgkyf1rIZiyjpdAxHI4qEs80msh8Ie6).

Please use IEEE bibliographic style.

An example of references' structure is given below.

References

[books]

[1] Y. Lepikh, et al., *The Design of New Generation Microelectronic Sensors for Intelligent Systems.* Odesa, Ukraine: Astroprint, 2010. (Ukrainian)

[2] A. Oustaloup, *Fractional Derivation*, 2nd ed. Paris, France: Hermés, 1995. (French)

[3] Y. Crutzen, G. Molinari, and G. Rabinacci, *Industrial Application of Electromagnetic Codes*, vol. 1. Dordrecht, Germany: Kluwer, 1990.

[4] A. Krawczyk and J. Tegopoulos, *Numerical Modeling of Eddy Currents.* Oxford, UK: Clareudon, 1995.

[5] M. Kuczmann, A. Ivánci, *The Finite Element Method in Magnetics.* Budapest, Hungary: Akadémiai Kiadó, 2008.

[6] J. Turowski, *Technical Electrodynamics.* – Warsaw, Poland: WNT, 1993. (Polish)

[7] P. M. Morse and H. Feshback, *Methods of theoretical physics.* New York, USA: McGraw Hill, 1953.

[8] C. Brusaw, C. Aired, and W. Oliu, *Handbook of technical writing,* 3rd ed. New York, USA: St. Martin's Press, 1987.

[9] M. M. Botvinnik, *Computers in chess: Solving inexact search problems.* Translated by A. Brown, Berlin, Germany: Springer-Verlag, 1984.

[anthology, encyclopedia]

[10] *Analysis and Synthesis of Electromagnetic Fields* Warsaw, Poland: Polish Academy of Sciences, 1990. (Polish)

[11] V. Moroz, Y. Marushchak, and O. Turych, "A New Algorithm of Extremal Control". In *Problems of automatic electric drives. Theory and Application*, pp. 419–120, Kremenchuk, Ukraine: Kremenchuk National University, 2012. (Ukrainian)

[12] A. Druzhynin, E. Lavitska, I. Maryamova, and Y. Khoverko, "Laser recrystallized SOI layers for sensor applications at cryogenic temperatures". In F. Balestra et al., eds. *Progress in SOI structures and Devices Operating at Extreme Conditions,* pp. 233–237, Netherlands: Kluwer Acad. Publishers, 2002.

[13] G. J. Broadhead, "Style in technical and scientific writing". In M. G. Moran and D. Joumet, eds. *Research in technical communication. A bibliographic sourcebook,* pp. 379–401. Westport. CT, USA: Greenwood Press, 1985.

[14] A. D. Pearson, J. B. MacChesney, and W. G. French, "Fiber optics", in *Encyclopedia of Semiconductor Technology,* M. Grayson, Ed., New York: John Wiley & Sons, 1984.

[15] "Sonar," *Encyclopaedia Brittanica,* 1984 ed.

[journals and newspapers]

[16] J. Dochviri, I. Dochviri, and N. Beradze, "Dynamics of Control Systems of Thyristor Electric Drives with

an Electric Motor Excitation Control", *Tekhnichna Elektrodynamika,* no. 6, pp. 30–35, Kyiv, Ukraine: Institute of Electrodynamics of Ukraine, 2005.

[17] T. Chayavanich, et al., "Voltage and Frequency Dependent Model for PV Module Dynamic Impedance", *Solar Energy Materials and Solar Cells,* vol. 86, no. 2, pp. 243–251, Amsterdam, Netherlands: Elsevier, 2005.

[18] N. Siakavellas, "Two Simple Models for Analytical Calculation of Eddy Currents in Thin Conducting Plates", *IEEE Transactions on Magnetics,* vol. 33, no. 3, pp. 2245–2257, 1997.

[19] S. K. Kenue and J. F. Greenleaf, "Limited angle multifrequency diffiaction tomography", *IEEE Trans. Sonics Ultrason.,* vol. SU-29, no. 6, pp. 213–217, July 1982.

[20] "Technology threatens to shatter the world of college textbooks, *The Wall Street Journal,* vol. 91, pp. Al, A8, June 1, 1993.

[conference proceedings]

[21] J. Quintana, "Identification of the Fractional Impedance of Ultracapacitors", in *Proc. 2nd IFAC Workshop on Fractional Differentiation and its Applications,* pp. 127–136, Porto, Portugal, 2006.

[22] D. Dosyn, R. Darevych, V. Lytvyn, and U. Dalyk, "New Knowledge Evaluation using Message Model of NLT document", in *Proc. International Conference on Computer Science and Information Technologies*, pp. 118–119, Lviv, Ukraine, 2006.

[23] O. Naumova, V. Popov, A. Aseyev, Yu. Ivanov, and A. Archakov, "Silicon-on-insulator nanowire transistor for medical biosensors, in *Proc. EuroSOI International conference,* pp. 69–70, Goteborg, Sweden, 2009.

[24] R. Finkel, R. Taylor, R. Bolles, R. Paul, and J. Feldman, "An overview of AL, programming system for automation", in *Proc. Fourth Int. Joint Conf Artif. Intell.,* pp. 758–765, Sept. 3–7, 1975.

[patent]

[25] L. O. Norman, U. S. Patent 4 379 752, 1983. [Title of patent may be included.]

[26] A. Druzhynin, I. Ostrovskyi, S. Nichkalo, and Yu. Khoverko, *A method of producing arrays of silicon nanocrystals,* Ukraine Patent № 63926, 2011. (Ukrainian)

[27] A. D. Blumlein, *Improvements in or relating to high frequency electrical conductors or radiators.* Great Britain Patent: GB515684 (A), issue date December 12, 1939.

[internet sources]

[28] H. McDevitt, "Load Sharing with DNS", *http:// ntrg.cs.tcd.ie/undergrad/4ba2.01/group8/DNS.html*

[29] "Round Robin DNS Load Balancing", *http:// content.websitegear.com/article/load_balance_dns.htm*

[30] Fuminao Okumura and Hajime Takagi, "Maglev guideway on the yamanashi test line", http:// www.rtri.or.jp/rd/maglev2/okumura.html, October 24, 1998.

[31] "AT&T Supplies First CDMA Cellular System in Indonesia,"*http://www.att.com/press/1095/951011.n sa.html,* Feb 5, 1996.

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