



Pacific National University(Russia)
Changchun University (China)

International Scientific Conference

Information technologies of XXI century

May 20-24, 2013

Pacific National University
(Khabarovsk, Russia)

The purpose of the conference

Establishment and strengthening of scientific contacts between researchers of Russia and China, exchange of scientific and technical information, discussion of the latest scientific achievements in the field of information technologies and their application in industry and scientific research.

Sections of the conference

1. Parallel computing technologies.
2. Space technologies in education, science and industry.
3. Information technologies in industrial and economic systems.
4. Information and communication technologies in education, science and health care.
5. Information technologies in automation, electronics and measurement technologies.
6. Visual data processing systems.

Conference Venue

Pacific National University (Russia, Khabarovsk,
Tihookeanskaya st., 150, Business Incubator)

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Organizing Committee:

Co-Chair: Sergey N. Ivanchenko (The first President of PNU, Russia)

Co-Chair: Pan Fulin (The first President of Changchun University, China)

Organizing Committee members:

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Ivanov V.E., Assoc. Professor of DAST of PNU

Borodulin V.V., Lecturer of DCS of PNU

Porva O.V., Head of Department of Educational Programs of TMD of PNU

Important dates of the conference:

Reception of applications of participation	until 20.04.2013
Submission of papers	until 01.05.2013
Mailing of the conference program	01.05.2013
Beginning of the conference	20.05.2013

Procedure for submission of materials for the conference

To participate in the conference it is necessary to register on the web site of the conference: <http://infodv.27.ru/> until April 20, 2013, and send an electronic copy of the paper, formatted in accordance with the requirements to the e-mail: cidshell@mail.ru. The file should be named by the name of the first author of the report.

Requirements for the reports

Materials of the International Conference "Information technologies of XXI century" will be published as the collection of reports. It is necessary to provide the texts of the reports in **English** and **Russian** to be published. Recommended volume of the report if 4-6 pages. Text in Microsoft Word 2000 – 2003 document, page format A4 (29,7 sm. x 21sm.). Page parameters: margin: top – 5 cm, bottom – 5 cm, inside, outside – 4 cm; edge-to-header – 0, edge-to-footer – 4 cm; orientation – portrait, line spacing – single; word wrapping – automatic; alignment – justified; paragraph – 0,75 cm Page Number: size – 11 pt. position – bottom of the page, alignment – outside.

At the beginning of the report – a copyright notice, names and initials of the authors (11 pt., bold italic) in two spaces – title (11 pt., bold italic). In two spaces – name of the author (font Times New Roman, italic, 10 pt.) degree and the title of author, place of work, contact information (regular font, 10 pt.) in two space – abstract in Russian and, separated by a space, abstract in English (10 pt.), separated by a space – key words (11 pt.), separated by a space – text of the report (11 pt.)

Please underline the name of the author submitting the report.

Formulas are inserted as separate objects, aligned in the center. After the text of the report are references. Name – font Times New Roman, size 11 pt., bold, without paragraph. Text – font Times New Roman 10 pt. Bibliographic list is formatted in the order of links to sources. Graphics, images, high quality photos should be inserted in the text, numbered and have a caption title.

Example of the text of the report is provided in Appendix 1.

Articles and abstracts will be published without editing.

Additional information:

- All registered participants will receive an invitation to a conference via e-mail;
- participants are not required to pay the registration fee;
- cultural program is envisaged for all participants;
- participants pay travel and accommodation fees by themselves.

ПРИМЕР ОФОРМЛЕНИЯ ДОКЛАДА

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УПРАВЛЕНИЕ ПО ВЫХОДУ С КОМПЕНСАЦИЕЙ ГАРМОНИЧЕСКИХ ВОЗМУЩЕНИЙ В УСЛОВИЯХ АПРИОРНОЙ НЕОПРЕДЕЛЕННОСТИ

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Рассматривается задача управления динамическими объектами с компенсацией внешних смещенных гармонических возмущений. В качестве решения предлагается комбинированная адаптивная система управления, контур управления которой содержит блок генератора периодических сигналов (ГПС).

Control problem for dynamic plants with external biased harmonic noise compensation is considered. As a solution method it's suggest combined adaptive control system with regulator which includes periodical signals generator (PSG).

Ключевые слова: компенсация возмущений, комбинированный алгоритм управления, смещенные гармонические помехи.

Пусть динамические свойства объекта управления описываются с помощью операторной модели [1]

$$a(p)y(t) = b(p)[u(t) + f(t)] \quad (1)$$

где $p = d/dt$ – оператор дифференцирования; $y(t)$ – выход объекта управления; $u(t)$ – входной сигнал объекта (управляющее воздействие); $f(t)$ – внешнее возмущение.

Имитационная модель комбинированной системы управления рассматриваемым объектом (1) представлена на рис. 1

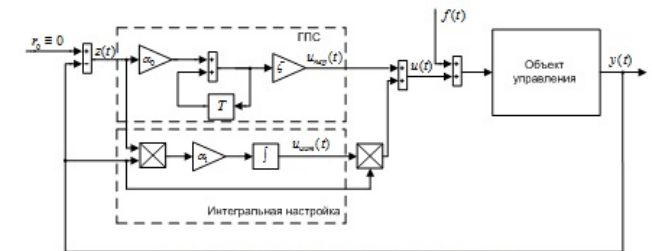


Рис. 1. Simulink-модель системы управления.

Библиографические ссылки

1. Бобцов А.А., Кремлев А.С. Синтез наблюдателя в задаче компенсации конечного квазигармонического возмущения // Известия РАН. Теория и системы управления. – 2005. – №3. – С.5 – 11.