

## BIBLIOGRAPHY OF SOVIET WORKS ON INTERVAL COMPUTATIONS

### Part IV

In this issue we continue to publish the bibliography of Russian-language works on interval computations.

To date authors from the former Soviet Union have published or prepared for publication more than 600 papers, monographs, reports, etc. devoted to various areas of interval computations. Unfortunately, due to the language barrier and problems with access these works are practically unknown outside the former Soviet Union. This bibliography is a step to remedy this situation. The bibliography includes references to the works in Russian of the authors who lived in the former Soviet Union the works were written.

The list, prepared in the Computer Center of the Siberian Branch of the Russian Academy of Sciences (Krasnoyarsk) under the management of Dr. Boris S. Dobronets, was taken as the basis for the bibliography. Later, the list was corrected, appended and translated into English by Lyudmila V. Kupriyanova (Saratov State University), and edited by Alexander G. Yakovlev (Moscow, Moscow Institute for New Technologies in Education) and R. Baker Kearfott (University of Southwestern Louisiana). To make use of the bibliography easier, Vladimir S. Zyuzin (Saratov State University) and Lyudmila V. Kupriyanova have constructed a subject index.

As a basis for the bibliographic standard, the standard in the following publications was taken:

Garloff, J. *Interval mathematics. A bibliography.* Freib. Int.-Ber. 6 (1985), p. 1-222;

Garloff, J. *Bibliography on interval mathematics. Continuation.* Freib. Int.-Ber. 2 (1987), p. 1-50.

New references are inserted in the lexicographical order of their numbers. If it is necessary to replace a reference, the new reference gets the number of the corresponding old reference with a letter after the number.

The Editorial Board of the International Journal "Interval Computations" can offer translation into English upon demand of texts reflected in the bibliography (papers, reports, parts of books, etc.). We can also supply foreign readers with copies of these materials in Russian. Terms and prices, as well as the bibliography itself and a subject index, are available free via electronic mail from our official representatives.

For persons with access to INTERNET, the bibliography and ordering information are available via FTP. You can FTP to ftp.ucsl.usl.edu, log on as an "anonymous" user, then issue the following commands:

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The size of this file is now approximately 135 KB.

A part of the bibliography has been published in the issues 2(2)/1991 — 2(4)/1992 of our journal. In subsequent issues of "Interval Computations" the continuation, corrections and new references will be published. If necessary we are willing to send you modified and additional references via e-mail.

In conclusion, a remark: although the word "Soviet" is passing to the lexicon of historical researches, to keep continuity we have decided not to change the title of the bibliography till the finish of its publishing.

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**БИБЛИОГРАФИЯ СОВЕТСКИХ РАБОТ  
ПО ИНТЕРВАЛЬНЫМ ВЫЧИСЛЕНИЯМ****Часть IV**

В этом выпуске журнала мы продолжаем публикацию библиографии русскоязычных работ по интервальным вычислениям.

К настоящему времени авторами из бывшего СССР опубликовано или подготовлено к публикации более 600 работ, посвященных различным вопросам интервальных вычислений. К сожалению, из-за языкового барьера и труднодоступности эти работы почти неизвестны зарубежным специалистам. На выход из этой явно ненормальной ситуации направлена публикация настоящей библиографии в переводе на английский язык, начатая в журнале "Интервальные вычисления" N 1, 1991 и продолженная в последующих номерах. Библиография включает ссылки на русскоязычные работы авторов, проживавших на территории бывшего СССР на момент написания данных работ.

Основу библиографии составил список, подготовленный группой сотрудников ВЦ СО РАН (г. Красноярск) во главе с Б.С.Добронцом, дополнение списка и перевод ссылок на английский язык осуществила Л.В.Куприянова (Саратовский госуниверситет), в редактировании приняли участие сотрудник Института новых технологий образования (г. Москва) А.Г.Яковлев и Р.Бейкер Кирфотт (Университет Юго-Западной Луизианы, США). Для облегчения работы с библиографией В.С.Зюзин (Саратовский госуниверситет) и Л.В.Куприянова разработали тематический указатель.

При выборе библиографического стандарта за основу были взяты следующие публикации:

Garloff J. Interval mathematics. A bibliography // Freib. Int.-Ber. — 1985. — N 6. — P. 1-222;

Garloff J. Bibliography on interval mathematics. Continuation // Freib. Int.-Ber. — 1987. — N 2. — P. 1-50.

Новые ссылки вставляются в лексикографическом порядке их номеров. При необходимости замены ссылки новая ссылка получает номер старой, но с буквенным окончанием.

По заказу зарубежных специалистов в качестве платной услуги мы осуществляем перевод текстов (в том числе с участием

- авторов) на английский язык. В этой связи редколлегия обращается с просьбой ко всем авторам сообщить нам свои рабочие и домашние адреса и телефоны. Поскольку в последующих номерах “Интервальных вычислений” будет публиковаться продолжение библиографии, новые ссылки и исправления, мы просим всех авторов информировать нас о замеченных неточностях, об отсутствующих ссылках на старые работы и о появлении новых (в том числе находящихся в печати). Всю информацию следует направлять Л.В.Куприяновой (если возможно — на дискетах) по адресу: 410090, Саратов, ул. Тархова, д. 14-б, кв. 5, либо текстовым файлом по электронной почте на адрес: [zyuzin@scnit.saratov.su](mailto:zyuzin@scnit.saratov.su). Ссылки на языке оригинала необходимо оформлять по ГОСТ, их перевод — в соответствии со стандартом настоящей публикации. Одновременно редколлегия сообщает о том, что принятое в английском варианте библиографии написание фамилий авторов и перевод самих ссылок являются нормативными для последующих выпусков “Интервальных вычислений” (если, конечно, не будет опубликовано исправление), и убедительно просит авторов придерживаться этого норматива в английских версиях работ, передаваемых в “Интервальные вычисления” для публикации.
- И в заключение одно замечание: хотя слово “советский” постепенно переходит в лексику исторических исследований, для сохранения преемственности мы решили не менять название библиографии до полного завершения ее публикации.
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