

Newsletter November 2007 to the Splitting-Group in Action

Title : Conferences and International Foundations

Dear Colleagues, Students and Friends of our Splitting Group in Action, the academic year is going on and we have to apply for new conferences and new funds for the next years.

There is a good chance to establish our decomposition methods in the funding programs. Also the presentation of our results have to be done annually in conferences to see the benefit of our research.

Decomposition methods are discussed for applications in technical apparatus, real life problems, financial mathematics and further realistic problems. Upto now we design efficient methods and solve large and complex problems, which are important in our society.

Recently I was asked to submit an international research proposal to the European science foundation to build an international network in the program of "Physical and Engineering Sciences".

I hope, we have a chance to enter these programs and increase our activities to get an international mathematical group.

Nevertheless, good research and publications are necessary and we have to submit our papers and lectures to special issues and good journals.

In this newsletter, I announce the deadlines the next conferences, special issues, positions and the deadline of international foundations.

Here are the contents :

- 1.) Special Issues
- 2.) Annual conference in Venice and Arlington
- 3.) Open positions
- 4.) European Science Foundation (ESF)
- 5.) Additional remarks

ad. 1.) Special Issue :

Qin Sheng and Johnny Henderson :

Title: Novel Difference and Hybrid Methods for Differential and Integro-Differential Equations and Applications, to be published in Neural, Parallel, and Scientific Computations (NPSC),

The Deadline will be at January 31, 2008.

Juergen Geiser and Roland Glowinski:

Title : Operator Splitting methods and ADI methods,

to be published in Springer (Texts and monographs in physics, edited by W.

Beiglboeck), Deadline April 30, 2008.

Please let us know your interest.

ad 2.) Annually conferences

2.1.) Venice

Our annually conference in Europe will be held in Venice

Eccomas 2008, Venice, Italy

<http://www.iacm-eccomascongress2008.org/frontal/>

Please see the deadlines for the contributions to our minisymposium:

Time- and Spatial Decomposition Methods for Multi-physical and Multi-field Problems [ID:139]

Organizers : Geiser Juergen, Sheng Qin

Deadline for the 2 paper abstract :

December 15th., 2007

Please start to submit the abstracts.

2.2.) Arlington

Our annually conference in the USA will be held in Arlington :

7th AIMS International Conference on Dynamical Systems,

Differential Equations and Applications

May 18 - 21, 2008

http://www3.baylor.edu/Qin_Sheng/minisymposium7.html

Please see the deadlines for the contributions to our minisymposium:

Adaptive and Iterative Decomposition methods for Differential Equations : Stability and Application.

Organizers : Geiser Juergen, Sheng Qin

Deadline for abstract: February 29, 2008

ad 3.) Open positions of the group members :

3.1.) Postdoctoral Position at Humboldt University of Berlin, Germany, posted September 2007 :

Research position for a period of 3 years :

Title of the project :

NANO-COATED METAL FOR BIPOLAR PLATES OF PEFC:
MODELING AND SIMULATION OF MULTI-SCALE EVOLUTION EQUA-
TIONS

3.2.) Postdoctoral Position in Paris, France, posted September 2007 :

Research position for a period of 2 years :

Title of the project :

PARAREAL SIMULATION OF MULTI-SCALE EVOLUTION EQUATIONS
:
FROM POLARISABILITY OF NANOPARTICLES TO REACTING WAVES
WITH COMPLEX CHEMISTRY

3.3.) Faculty and Postdoctoral Positions at Baylor, USA, posted August
2007

see : <http://www.baylor.edu/math/index.php?id=37671>

Please let us know if there might be some interested students or colleagues
in our group.

ad 4.) International Foundations

I will short introduce my ideas to the European Science Foundation (ESF).

At a last conference, I got contact to Prof. Choi-Hong Lai, and he motivated
me to send my contributions and ideas for an ESF-program.

I think it is important to be also integrated in European and American
programs. The benefit of a researcher network helps to support our ideas
and give us funds for the students and visits.

As an example, I have attached the recent research proposal :

The proposal concerns the building of a network of expertise, a series of
workshops and schools, and a number of exchange visits between key insti-
tutions involving an enlarged number of and a wider research groups based
in the EU. The area of expertise and interests concerns the research and
development of innovative numerical algorithms for multi-scale industrial
problems. There are two prime concerns of this proposal. First investigate
and extract intrinsic distributed computational properties using a suit of

multi-scale industrial problems. Second examine the use of internet and the Grid computing facilities for the suit of industrial problems. It is intended to provide a number of stimulating workshops to be organized at the collaborating institutions in a rotation manner to disseminate important research experience to post-graduate students and post-docs from a wider academic institutions across EU and to industrial practitioners. Many exchange visits will be arranged for post-graduate students and post-doctoral researchers as well. Research reports, workshop proceedings and journal special issues will be used to report events and research results.

Nevertheless, we should submit our own proposals in the area of decomposition methods and integrate us into one research program.

I would also be glad if we could submit a similar proposal for an American science foundation.

Many thanks to Professor Choi-Hong LAI, University of Greenwich-Maritime Greenwich Campus, Great Britain, who motives me to submit an abstract to the his ESF proposal.

ad 5.) Additional remarks

New conferences, open positions, new special issues can be send to my and will be announced in the next newsletter.

Please think of your plans next summer :

- 1.) Annual conference in Venice and Arlington (June 2008).
- 2.) Abstract of proposals to the ESF and US funds.

Thanks for your time and let me know your ideas, new projects and comments.

Best regards,

Juergen Geiser