
CALL FOR PAPERS

DNA22 - 22nd International Conference on DNA Computing and Molecular Programming

Ludwig-Maximilians-Universität München
Munich, Germany

September 4-8, 2016

<http://www.dna22.eu>

THE MEETING

Research in DNA computing and molecular programming draws together mathematics, computer science, physics, chemistry, biology, and nanotechnology to address the analysis, design, and synthesis of information-based molecular systems. This annual meeting is the premier forum where scientists with diverse backgrounds come together with the common purpose of applying principles and tools of computer science, physics, chemistry and mathematics to advance molecular-scale engineering and biology. The 22nd International Conference on DNA Computing and Molecular Programming (DNA22), organized under the auspices of the International Society for Nanoscale Science, Computation and Engineering (ISNSCE), will focus on the most important recent experimental and theoretical results.

SOLICITATION FOR PAPERS

Papers and presentations are sought in all areas that relate to biomolecular computing, including, but not restricted to: algorithms and models for computation on biomolecular systems; computational processes in vitro and in vivo; molecular switches, gates, devices, and circuits; molecular folding and self-assembly of nanostructures; analysis and theoretical models of laboratory techniques; molecular motors and molecular robotics; studies of fault-tolerance and error correction; software tools for analysis, simulation, and design; synthetic biology and in vitro evolution; applications in engineering, physics, chemistry, biology, and medicine.

IMPORTANT DATES (firm deadlines)

Full paper (track A) and extended abstract (track B) submission: April 01, 2016

Notification of paper acceptance: May 16, 2016

Revised manuscripts due: June 12, 2016

Poster (track C) submission: June 14, 2016

Notification of poster acceptance: July 01, 2016

Early registration deadline: July 17, 2016

Conference: September 4-8, 2016

NOTE: This year all deadlines are firm, there will be no extensions!

INVITED SPEAKERS

Ulrich Gerland	Technische Universität München
Monika Heiner	Brandenburg University of Technology Cottbus-Senftenberg
Cristopher Moore	Santa Fe Institute
Laura Na Liu	Universität Heidelberg
Rebecca Schulman	Johns Hopkins University
Bernard Yurke	Boise State University

WEBSITE

<http://www.dna22.eu>

INSTRUCTIONS FOR AUTHORS

Electronic Submissions: All papers and abstracts should be submitted electronically following the instructions and link at the conference web page, <http://www.dna22.eu>. Papers must be submitted in PDF format. The use of LATEX is strongly encouraged for Track A submissions, as it will be required for the revised manuscript included in the LNCS proceedings of accepted papers.

TRACKS

I. Submissions to be considered for oral presentations

Authors submitting a paper and/or proposal for a presentation may choose between two submission tracks. Submissions for oral presentations can be submitted to one of the two tracks (A) or (B).

Track A - Full Paper: For authors who want their full papers to be published in the conference proceedings. Submissions (a single .pdf file) should conform to the following guidelines:

- The total length of the paper does not exceed 12 pages and is expected to be formatted in LATEX for the Springer-Verlag Lecture Notes in Computer Science (LNCS). Please follow the formatting instructions at: <http://www.springer.de/comp/lncs/authors.html>.
- Each paper should contain an abstract which briefly describes the primary results and their importance.
- Selected papers will be published in the proceedings, available at the conference and as part of the LNCS series. Submissions to Track A may not be previously published or simultaneously submitted to another conference or journal for publication.

Track B - One page abstract with accompanied material: Primarily for authors submitting experimental results who plan to submit to a journal rather than publish in the conference proceedings. (Abstracts for work recently submitted to or published in a journal will also be considered.) To be considered for oral presentation submissions should conform to the following guidelines:

A single .pdf file containing

- *A one-page abstract:* The total length of the abstract should not exceed 1 page (11 point type, single spaced, 1 inch margins). The one-page abstract must describe the primary results and their importance.
- *Accompanied documentation:* Authors must attach to the abstract a preliminary manuscript, a thesis chapter or some other form of supporting documentation that can

be used by the program committee to evaluate the merit of the work for oral presentation. Only the one-page abstract will appear in the supplementary proceedings at the conference. Track B papers unaccompanied by adequate documentation will not be eligible for oral presentation.

II. Poster submissions (Track C)

For authors interested in presenting their work only in the poster session, the abstract submission will be through the same website (<http://www.dna22.eu>).

The submission deadline is June 14, 2016. All poster submissions should conform to the following guidelines:

- The total length of the abstract should not exceed 1 page (11 point type, single spaced, 1 inch margins).
- The one-page abstract should describe the primary results and their importance.

STUDENT PRIZES

The conference and the ISNSCE society will award two prizes: "DNA22 Best Student Paper Award" and "ISNSCE Best Student Presentation Award". For eligible papers, a brief recommendation letter (such as from the student's advisor) should be emailed to dna22@easychair.org. Recipients of the prize will be notified at the time of the conference banquet.

STEERING COMMITTEE

Natasha Jonoska (Chair)	Mathematics, University of South Florida, USA
Luca Cardelli	Microsoft Research, Cambridge, UK
Anne Condon	Computer Science, University of British Columbia, Canada
Masami Hagiya	Computer Science, University of Tokyo, Japan
Lila Kari	Computer Science, University of Western Ontario, Canada
Satoshi Kobayashi	University of Electro-Communication, Chofu, Japan
Chengde Mao	Chemistry, Purdue University, USA
Satoshi Murata	Bioengineering & Robotics, Tohoku University, Japan
John Reif	Computer Science, Duke University, USA
Grzegorz Rozenberg	Computer Science, University of Leiden, The Netherlands
Nadrian Seeman	Chemistry, New York University, USA
Friedrich Simmel	Physics, Technical University Munich, Germany
Andrew Turberfield	Physics, Oxford University, UK
Hao Yan	Chemistry and biochemistry, Arizona State, USA
Erik Winfree	Computer Science, Bioengineering, Computation & Neural Systems, California Institute of Technology, USA

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Peng Yin	Harvard University, USA

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Friedrich Simmel	Technical University Munich, Germany (co-chair)
Andrea Cooke	LMU Munich, Germany (executive co-chair)
Hendrik Dietz	Technical University Munich, Germany
Ralf Jungmann	Max Planck Institute for Biochemistry, Munich, Germany

If you have any questions about this CFP, please feel free to contact the PC chairs at dna22@easychair.org.