

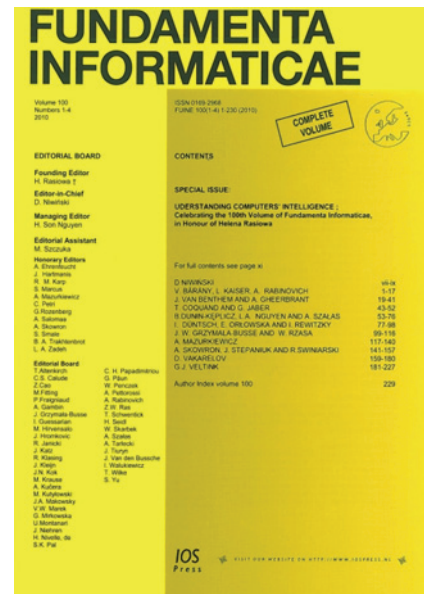
Fundamenta Informaticae

to join the celebration of the
Alan Turing year

CALL FOR PAPERS

The editors welcome the submission of
original contributions for the upcoming
special issue:

**"Watching the Daisies Grow: from biology
to biomathematics and bioinformatics"**



Important dates

| | |
|--------------------------------------|---------------------|
| Deadline for expression of interest: | 30 April 2011 |
| Notification of intent to proceed: | 31 May 2011 |
| Deadline for paper submission: | 31 July 2011 |
| Notification of acceptance: | 31 October 2011 |
| Final manuscript due: | 31 December 2011 |
| Publication of special issue: | Spring 2012 |

Overview

In 1951 Alan Turing wrote a paper entitled "The Chemical Basis of Morphogenesis" in which he developed the reaction-diffusion theory, which became one of the basic models of theoretical biology and is also considered a foundation of chaos theory.

The story started much earlier, in spring 1923, as documented by his mother in a caricature "Hockey or Watching the Daisies Grow". Crucial motif in the drawing is that, while most players are engaged by the game, Alan is investigating a flower emerging just off the field.

In his "Outline of the Development of a Daisy," Turing writes: "At a certain point in the development of the daisy the anatomical changes begin. From this point, as has been mentioned, it becomes hopelessly impracticable to follow the process mathematically...."

To celebrate the centenary of Turing's birth Fundamenta Informaticae will publish a special issue to highlight recent work in mathematical biology and bioinformatics. All papers that try to "follow the process mathematically" are welcome.

Submission of Papers

We welcome original, unpublished high quality contributions in the field of biomathematics and bioinformatics, addressing one or more of the elements mentioned on the right.

All manuscripts and any supplementary material should be submitted via the journal's online submission and peer-review systems at: <http://fi.mimuw.edu.pl>

Please follow the instructions given on that site.

Topics

Relevant topics for the special issue would include, but would not be limited to, the following:

- Morphogenesis and pattern formation,
- Population dynamics,
- Mathematical oncology,
- Computational proteomics,
- Gene regulation,
- Genome analysis,
- Molecular evolution,
- Population genomics,
- Sequence analysis,
- Systems biology

Editors

Dr. Anna Marciniak-Czochra
Interdisciplinary Center for Scientific
Computing (IWR) and BIOQUANT
University of Heidelberg
Im Neuenheimer Feld 294
69120 Heidelberg
Germany
Email: anna.marciniak@iwr.uni-heidelberg.de

Dr. Anna Gambin
Associate professor
Institute of Informatics
University of Warsaw
Banacha 2
02-097 Warsaw
Poland
Email: aniag@mimuw.edu.pl

About the journal

Since its founding in 1977 by Helena Rasiowa and Zdzisław Pawlak, *Fundamenta Informaticae* has served as an effective guideline for those working in the field of theoretical computer science. The journal publishes original research results in all areas of mathematical foundations of computer science and their applications. In 2010, *Fundamenta Informaticae* celebrated its 100th volume with a special issue dedicated to its founder Helena Rasiowa.