

IT University
of Copenhagen

**10th CONFERENCE ON
CATEGORY THEORY AND COMPUTER SCIENCE (CTCS'04)
AUGUST 12-14, 2004**

AND

**FIRST GRADUATE STUDENT SUMMER SCHOOL
AUGUST 9-11, 2004**

AND

**(new!) 3rd WORKSHOP ON CATEGORICAL METHODS FOR CONCURRENCY,
INTERACTION AND MOBILITY (CMCIM 2004)
AUGUST 11, 2004**

**IT University of Copenhagen (ITU)
Copenhagen, Denmark**

SECOND CALL FOR PAPERS

and

CALL FOR PARTICIPATION

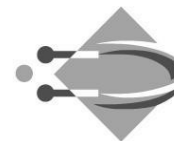
IMPORTANT DATES

April 9th, 2004: CTCS Submission deadline
June 1st, 2004: CTCS Notification of authors of accepted papers
July 1st, 2004: CTCS Registration deadline, and Revised papers due

CTCS'04 is the 10th Conference on Category Theory and Computer Science. The purpose of the conference series is the advancement of the foundations of computing using the tools of category theory. The emphasis is upon applications of category theory, but it is recognized that the area is highly interdisciplinary.

**Typical topics of interest include, but are not limited to,
category-theoretic aspects of the following:**

coalgebras and computing
concurrent and distributed systems
constructive mathematics
declarative programming and term rewriting
domain theory and topology
foundations of computer security



linear logic
modal and temporal logics
models of computation
program logics, data refinement, and specification
programming language semantics
type theory

Previous meetings have been held in Guildford (Surrey), Edinburgh (twice), Manchester, Paris, Amsterdam, Cambridge, S. Margherita Ligure (Genova), and Ottawa.

The proceedings of the conference will be published as a special issue of ENTCS (Electronic Notes in Theoretical Computer Science).

Invited Speakers:
Francois Bergeron
Martin Hyland
Robin Milner
Andrew Pitts
Thomas Streicher

PROGRAMME COMMITTEE:

Lars Birkedal, Chair (IT University of Copenhagen)
Marcelo Fiore (University of Cambridge)
Masahito Hasegawa (Kyoto University)
Bart Jacobs (University of Nijmegen)
Ugo Montanari (University of Pisa)
Valeria de Paiva (Palo Alto Research Center)
Dusko Pavlovic (Kestrel Institute)
John Power (University of Edinburgh)
Edmund Robinson (Queen Mary, University of London)
Peter Selinger (University of Ottawa)

ORGANIZING COMMITTEE

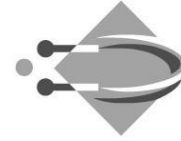
E. Moggi, Chair, (Genova)
S. Abramsky (Oxford)
P. Dybjer (Chalmers)
B. Jay (Sydney)
A. Pitts (Cambridge)

LOCAL ORGANIZING COMMITTEE

C. Butz
T. Hildebrandt
A.L. Moerk

SUBMISSION OF PAPERS

Papers should be submitted, preferably in electronic form, to ctcs04@itu.dk. Papers are limited to 15 pages, and must be submitted in dvi, postscript, or pdf format, possibly gzipped and/or uuencoded, or sent as a standard email attachment. All submissions must be received by April 9th, 2004. If you cannot submit your paper electronically, please contact the program chair at



ctcs04@itu.dk.

SUMMER SCHOOL

Inspired by the success of the graduate student preconference of CTCS'02 in Ottawa, the CTCS of this year will have a similar event: A summer school from August 9-11. The goal is to prepare students - both graduate and undergraduate, with basic knowledge of category theory - for CTCS, through mini-courses in the basic areas underlying some of the fields of the conference. The school will offer the following mini-courses (5 lectures):

- * Stone Duality, Coalgebras, and Modal Logic (Lecturer: Alexander Kurz)
- * Game Semantics (Lecturer: Guy McCusker)
- * Operational Semantics (Lecturer: Pawel Sobocinski)
- * Categorical Models for Concurrency (Lecturer: Thomas Hildebrandt)

CMCIM WORKSHOP (new)

In between the summer school and the CTCS conference, August 11th, there will be a half-day workshop on Categorical Methods in Concurrency, Interaction and Mobility. The workshop has previously been held in connection with CONCUR 2002 and CONCUR 2003.

We invite submissions of extended abstracts (less than 5 pages), presenting recent results, challenges or work in progress. There will be no formal proceedings of the workshop, informal proceedings will be distributed at the workshop. Thus, accepted material may be published elsewhere at a later date.

Workshop participation is free, but requires registration before 1st of July, by sending an email to hilde@itu.dk, containing 'CMCIM2004-registration' in the subject, and your full name and affiliation in the body.

Submissions should be sent before 21th of June, as PostScript files to: hilde@itu.dk, containing 'CMCIM-submission' in the subject, and in the body the full names of the author(s), title, and a text-only abstract.

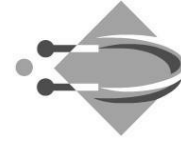
Workshop Organizers:

Thomas Hildebrandt
Alexander Kurz

STUDENT GRANTS (new)

A limited number of grants is available for funding the stay of international students at a nearby youth hostel during the summer school and conference.

CONFERENCE, SUMMER SCHOOL and WORKSHOP HOMEPAGE



**Updated information is available from
<http://www.itu.dk/research/theory/ctcs2004/>
(Information about student grants and suggested accommodation will
appear soon....)**

SPONSORSHIP

**The conference and summer school are APPSEM-II events,
sponsored by the FIRST graduate school (www.first.dk) and the Theory
Department at the IT University of Copenhagen
(www.itu.dk/English/research/theory/)**