Twentieth Annual IEEE Symposium on

LOGIC IN COMPUTER SCIENCE (LICS 2005)

June 26th – 29th, 2005, Chicago, Illinois

`http://www.lfcs.informatics.ed.ac.uk/lics/`

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The LICS Symposium is an annual international forum on theoretical and practical topics in computer science that relate to logic broadly construed. We invite submissions on topics that fit under that rubric. Suggested, but not exclusive, topics of interest for submissions include: automata theory, automated deduction, categorical models and logics, concurrency and distributed computation, constraint programming, constructive mathematics, database theory, domain theory, finite model theory, formal aspects of program analysis, formal methods, hybrid systems, lambda and combinatory calculi, linear logic, logical aspects of computational complexity, logics in artificial intelligence, logics of programs, logic programming, modal and temporal logics, model checking, probabilistic systems, process calculi, programming language semantics, reasoning about security, rewriting, specifications, type systems and type theory, and verification. We welcome submissions in emergent areas, such as bioinformatics and quantum computation, if they have a substantial connection with logic.

Invited Speakers: Michael Benedikt, Bell Laboratories; Solomon Feferman, Stanford University; Walter Fontana, Harvard University; Jane Hillston, University of Edinburgh and Glynn Winskel, University of Cambridge.

Important Dates: Authors are required to submit a paper title and a short abstract of about 100 words before submitting the extended abstract of the paper. All submissions will be electronic.

> **Titles & Short Abstracts Due:** 5th January 2005
> **Extended Abstracts Due:** 10th January 2005
> **Author Notification:** 18th March 2005
> **Camera-ready Papers Due:** 8th April 2005.

All deadlines are firm; late submissions will not be considered. Detailed information about electronic paper submission will be posted at the LICS website.

Submission Instructions: Every extended abstract must be submitted in the IEEE Proceedings two-column camera-ready format. It must be in English and provide sufficient detail to allow the program committee to assess the merits of the paper. It should begin with a succinct statement of the issues, a summary of the main results, and a brief explanation of their significance and relevance to the conference and to computer science, all phrased for the non-specialist. Technical development directed to the specialist should follow. References and comparisons with related work should be included.

Extended abstracts may be no longer than 10 pages including references, and must be formatted in the IEEE Proceedings two-column camera-ready style (IEEE style files will be accessible from the LICS website). If necessary, detailed proofs of technical results can be included in a clearly-labelled appendix in the same two-column format following the 10-page extended abstract or there can be a pointer to a manuscript on a web site. This material may be read at the discretion of the program committee. *Extended abstracts not conforming to the above requirements concerning format and length may be rejected without further consideration.*

The results must be unpublished and not submitted for publication elsewhere, including the proceedings of other symposia or workshops. The PC chair should be informed of closely related work submitted to a conference or journal between 10th January 2005 and 18th March 2005. All authors of accepted papers will be expected to sign copyright release forms. One author of each accepted paper will be expected to present it at the conference.

Short Presentations: LICS 2005 will have a session of short (5–10 minutes) presentations. This session is intended for descriptions of work in progress, student projects, and relevant research being published elsewhere; other brief communications may be acceptable. Submissions for these presentations, in the form of short abstracts (1 or 2 pages long), should be entered at the LICS 2005 submission site between 19th March and 25th March 2005. Authors will be notified of acceptance or rejection by 1st April 2005.

Kleene Award for Best Student Paper: An award in honor of the late S.C. Kleene will be given for the best student paper, as judged by the program committee. Details concerning eligibility criteria and procedure for consideration for this award will be posted at the LICS website. The program committee may decline to make the award or may split it among several papers.

Affiliated Workshops: As in previous years, there will be a number of workshops affiliated with LICS 2005; information will be posted at the LICS website.

Sponsorship: The symposium is sponsored by the IEEE Technical Committee on Mathematical Foundations of Computing in cooperation with the Association for Symbolic Logic, and the European Association for Theoretical Computer Science.