# ICALP '97

**24th International Colloquium on Automata, Languages, and Programming**

**Bologna, Italy, July 7th – 11th, 1997**

**CALL FOR PAPERS**

The 24th annual meeting of the *European Association for Theoretical Computer Science* will take place in Bologna, Italy. ICALP '97 comes in conjunction with the 25th anniversary of the foundation of EATCS. To celebrate the **silver jubilee**, this edition of ICALP is organized differently, and accomodates some further events.

- Celebration of EATCS and of its founders (keynote speaker M. Nivat - Paris).

- Invited Lectures on major advances in theoretical computer science since EATCS has been established.

  R. Milner (Cambridge)
  C. Papadimitriou (Berkeley)
  M.O. Rabin (Jerusalem and Harvard)
  D.S. Scott (Pittsburgh)

- Invited Lectures on the state of the art and new promising trends.

  K.R. Apt (Amsterdam)
  R.J. Lipton (Princeton)
  K. Mehlhorn (Saarbrücken)
  D. Perrin (Paris)

- A panel on *Theoretical Computer Science: Governamental and Industrial Funding Policies*, with representatives from major research agencies.

The Program Committee represents both tracks of the journal *Theoretical Computer Science*, covering 'algorithms' and 'formal methods' equally. If enough good papers are submitted, there will be parallel sessions in the afternoons, leaving the mornings for plenary sessions on the special events mentioned above. Papers presenting original contributions in any area of theoretical computer science are being sought. Topics include (but are not limited to):

> computability, automata, formal languages, new computing paradigms, term rewriting, analysis and design of algorithms, computational geometry, computational complexity, symbolic and algebraic computation, cryptography and security, data types and data structures, theory of data base and knowledge bases, semantics of programming languages, program specification and verification, foundations of logic programming, parallel and distributed computation, theory of concurrency, theory of robotics, theory of logical design and layout.

**Program Committee**

P. Degano, Pisa (Co-Chair)
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R. Tamassia, Providence
E. Ukkonen, Helsinki

Authors are invited to submit seven copies of an extended abstract not exceeding twelve pages to:

**Prof. Pierpaolo Degano** – ICALP'97
Dipartimento di Informatica
Università di Pisa
I-56125 Pisa, Italy
email: `degano@di.unipi.it`

| **Important Dates:** | |
|---|---|
| Deadline for submission | January 15th, 1997 |
| Notification of acceptance | March 17th, 1997 |
| Final manuscript due | April 15th, 1997 |
| Conference | July 7th – 11th, 1997 |

Authors from countries where access to copying machines is difficult may submit a single copy of their abstract. Simultaneous submission of papers to any journal or to another conference with published proceedings is not allowed.

**Electronic submission** of papers is strongly solicited. Instructions can be found at the URL `http://w3-theory.di.unipi.it/~vs/ICALP97/subm` or will be obtained by sending a mail with subject `submission information` to the address: `icalp-subm@di.unipi.it`.

**Proceedings** will be published by Springer-Verlag in the series *Lecture Notes in Computer Science*. A "special" *Special Issue* of the Journal of *Theoretical Computer Science* will be devoted to selected papers from the conference.

**International Publicity Board:** Rob van Glabbeek (Stanford), Kim Larsen (Aalborg), J. Karhumäki (Turku), Taishin Y. Nishida (Toyama), Jan Rutten (Amsterdam), Bernhard Steffen (Passau).

**Organizing Committee**

ICALP'97 is organized by the Department of Computer Science of the University of Bologna. The Chair is:

**Prof. Roberto Gorrieri**, Mura Anteo Zamboni 7, I-40126 Bologna - Italy
Tel. +39.51.354509, Fax. +39.51.354510, email: `gorrieri@cs.unibo.it` .

assisted by the following members:

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|---|---|---|---|
| Andrea Asperti | Marco Bernardo | Chiara Bodei (Pisa) | Nadia Busi (Siena) |
| Paolo Ciancarini | Renzo Davoli | Riccardo Focardi (Venice) | Stefano Leonardi (Rome) |
| Andrea Masini (Pisa) | Giovanni Pau | Marco Roccetti | Paola Salomoni |
| Vladimiro Sassone (Pisa) | Roberto Segala | Gianluigi Zavattaro | |

**Satellite Events (provisional)**

- Workshop on *New Trends in Semantics* - Bologna (4-5 July) - Organizers: A.Asperti (Bologna), E.Moggi (Genua) and G. Rosolini (Genua) - Invited Speakers: S.Abramski (Edinburgh), V.Danos (Paris), A.Joyal (Montreal), D.Sangiorgi (Sophia-Antipolis) - URL `http://www.disi.unige.it/conferences/new-trends97/`
- Second International ERCIM Workshop on *Formal Methods in Industrial Critical Systems* - Cesena (4-5 July) - Organizers: S. Gnesi, D. Latella, L. Simoncini (Pisa) - Invited Speakers: E.Brinksma (Twente), U.Herzog (Erlangen), R.Mazzeo (Sasib Railways)
URL `http://fdt.cnuce.cnr.it:8080/Home/fm-ercim/WS/Cesena97/workshop.html`
- Second International Workshop on *Advanced Intelligent Networks* (AIN'97) - Cesena (4-5 July) - Organizers: T.Margaria and B.Steffen (Passau) - Invited Speakers: P.Zave (AT&T), M.Decina (Milan), D.Carl (Siemens) - URL `http://brahms.fmi.uni-passau.de/bs/cfp/`
- Final meeting of the ESPRIT 8130 project LOMAPS - Bologna (6 July) - Organizer: F. Nielson (Aarhus) - URL `http://www.daimi.aau.dk/~bra8130/Bologna97/meeting.html`
- Workshop on *Approximation and Randomized Techniques in Computer Science* - Bologna (12 July) - Organizer: J. Rolim (Geneva) - Invited Speakers: S.Arora (Princeton), P.Crescenzi (Rome), R.Impagliazzo (San Diego), M.Karpinski (Bonn) - URL `http://cuiwww.unige.ch/~random97`
- Workshop on *Recent Developments in Formal Languages* - Bologna (11-12 July) - Organizer: S.Varricchio (L'Aquila) - Invited Speaker: D. Perrin (Paris) - URL `http://univaq.it/~varricch/workshop.html`
- Workshop on *Algorithmic Aspects of Communication* - Bologna (11-12 July) - Organizers: M. Bonuccelli (Pisa) and A.Marchetti-Spaccamela (Rome).
- Second International Workshop on *Verification of Infinite State Systems* (Infinity'97) - Bologna (11-12 July) - Organizer: F.Moller (Uppsala) - URL `http://www.csd.uu.se/~fm/infinity97cfp.html`
- Workshop on *Theory of Reactive Object Systems* - Bologna (11-12 July) - Organizers: H.-D. Ehrich (Braunschweig), A. Rensink (Hildesheim) - URL `http://www.informatik.uni-hildesheim.de/~rensink/TROS97`

**Awards**
**Best student paper award:** This prize will be given to a paper written solely by one or more students. The

paper is eligible only if all the authors are full-time students at the time of submission. This should be indicated in the submission letter. The Program Committee may decline to make the award, or split it into several papers.

**Best presentation award:** This prize will be given to one speaker of an accepted paper, according to his/her merits in making the presentation appealing and curious, with no relation to the scientific merits of the paper. The Program Committee may decline to make the award, or – more likely – to split it into several persons.

**Sponsors:** ICALP'97 is organized under the auspices of the *European Association for Theoretical Computer Science*, the Section on Informatics of the *Academia Europaea*, the Universities of Bologna and Pisa. The list of sponsors include DGXIII-EU, ONR-Europe, CNR and GNIM.

### Conference Office

Italiana & Co., Via Altabella, 3, I-40126 Bologna - Italy
Tel. +39.51.228716, Fax. +39.51.222881, email: `italiana@bo.nettuno.it`

### Further Events

- *Honorary degree in Computer Science*: Maurice Nivat and Robin Milner will receive such a title from the University of Bologna. This is part of the celebration for the silver jubilee of EATCS, as Nivat and Milner were among the founders of the association.
- *Gödel Prize* (sponsored jointly by EATCS and ACM-SIGACT) is annually tributed to outstanding papers in the area of theoretical computer science. The Prize includes an award of $ 5000, sponsored by a grant from PWS Publishers in cooperation with International Thomson Publishing (ITP). The fifth presentation will take place during ICALP'97. The 1997 Award Committee consists of Ron Graham, David Johnson, Gordon Plotkin, Michael Rabin, Grzegorz Rozenberg (chair), and Emo Welzl. For further information, please contact the chairman: `rozenber@wi.leidenuniv.nl`.
- *EATCS General Assembly*, with renewal of the Board and election of the President.
- Accompanying persons programme with guided tours to cities of arts – on demand. Please contact the conference office for further info.
- Opera at the Arena in Verona, by night – on demand. Please contact the conference office for further info.

### Further Information

A WWW page is installed under the URL `http://www.cs.unibo.it/icalp97`, containing further information and latest news. This page is mirrored in North-America at the URL `http://boole.stanford.edu/~rvg/icalp97`.

The final program will be sent to all submitters and to all EATCS members. To add your name to the mailing list or to obtain further information, please send email to `icalp97@cs.unibo.it`.

### Related Events

ICALP'97 will be preceeded by LICS'97 and CONCUR'97, which will be held in Warsaw, Poland, the week before. For more details see `http://www.bell-labs.com/topic/conferences/lics/`. Warsaw is easily connected to Bologna via Vienna, Frankfurt, Munich, Rome, Paris, Bruxelles, Amsterdam, London and others.