

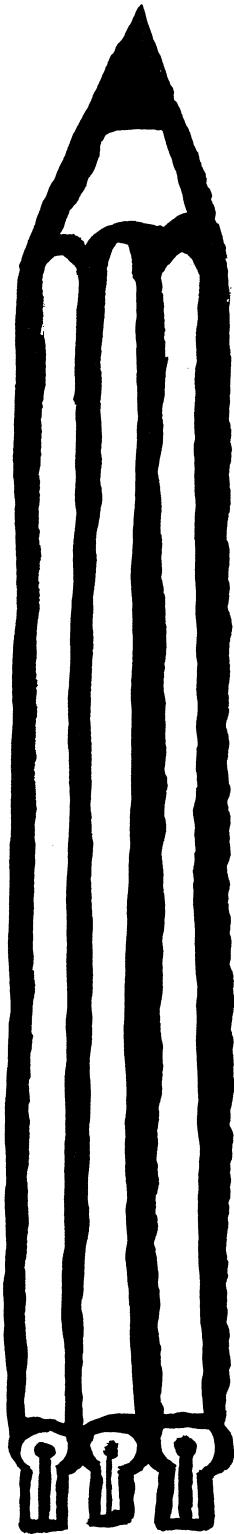


Dear EATCS members,

As usual, the June issue of the Bulletin will be available just before ICALP, the flagship conference of the EATCS and an important meeting of the theoretical computer science community world-wide. The 51st **EATCS International Colloquium on Automata, Languages, and Programming (ICALP 2023)**, will be held in Tallinn, Estonia, July 8-12, 2024

(<https://compose.ioc.ee/icalp2024/>). I am looking forward to the conference run again in a fully in-person mode. The PC chairs Karl Bringmann, Ola Svensson (track A), and Martin Grohe (track B), and the conference chair Pawel Sobocinski promise us an exciting scientific event. As usual, ICALP will be preceded by a series of workshops, which will take place before the conference. ICALP 2024 will be collocated with two further great events, LICS (39th Annual ACM/IEEE Symposium on Logic in Computer Science) and FSCD (9th International Conference on Formal Structures for Computation and Deduction). I look forward to the conference with you and I hope to see many of you during the ICALP 2024 conference in Tallinn!

In the scientific part of the ICALP program, the Programme Committee chairs Karl Bringmann, Ola Svensson (track A), and Martin Grohe (track B), and their PCs have done fantastic job selecting an impressive collection of papers. The programme of ICALP 2024 will highlight research across many areas within theoretical computer science. I invite you to attend and/or watch the talks even outside your own



research field.

The **best paper awards at ICALP 2024** will go to the following two papers:

- Track A: Yuda Feng and Shi Li, “A note on approximating weighted Nash social welfare with additive valuations;”
- Track B: Dmitry Chistikov, Alessio Mansutti and Mikhail Starchak, “Integer linear-exponential programming in NP by quantifier elimination.”

The **best student paper award** (for a paper that is solely authored by a student) will go to the following three papers:

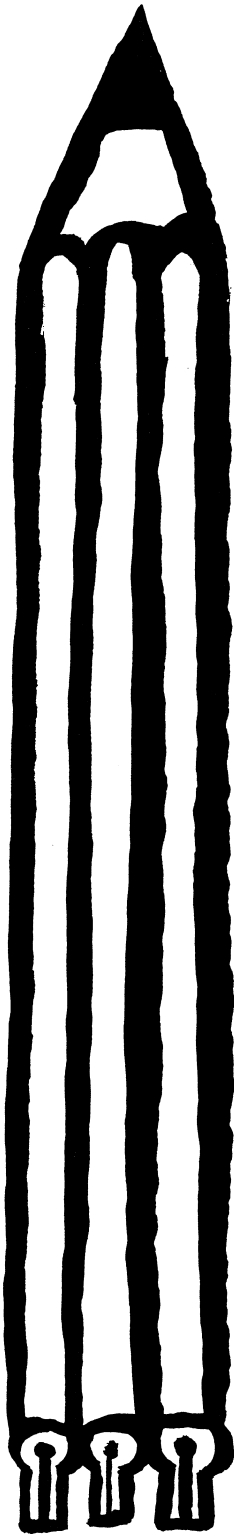
- Track A: Ce Jin and Hongxun Wu, “A faster algorithm for pigeonhole equal sums;”
- Track A: Kingsley Yung, “Limits of sequential local algorithms on the random k -XORSAT problem;”
- Track B: Roland Guttenberg, “Flattability of priority vector addition systems.”

Congratulations to the authors of the award-receiving papers!

In addition to regular research talks, ICALP 2024 will feature three invited talks delivered by

- Anuj Dawar (University of Cambridge),
- Danupon Nanongkai (MPI Saarbrücken),
and
- Merav Parter (Weizmann Institute),

and further two joint (with LICS and FSCD) invited speakers



- Edith Elkind (University of Oxford) and
- Stephanie Weirich (University of Pennsylvania).

Apart from the invited and contributed talks, ICALP 2024 will feature special presentations of the receipts of the Gödel Prize 2024, EATCS Award 2024, the EATCS Presburger Award, and of the Alonzo Church Award:

- Each year, the Gödel Prize (<https://eatcs.org/index.php/goedel-prize>) recognizes standout papers in theoretical computer science. The **Gödel Prize 2024** (sponsored jointly by the EATCS and the ACM SIGACT) is awarded to **Ryan Williams** (MIT) for presenting a novel paradigm for a “rich two-way connection” between algorithmic techniques and lower-bound methods.
- The EATCS annually honors a respected scientist from our community with the **EATCS Distinguished Achievements Award**, to acknowledge extensive and widely recognized contributions to theoretical computer science over a life long scientific career (<http://eatcs.org/index.php/eatcs-award>). The recipient of the **EATCS Award 2024** is **Samson Abramsky** (University College London), for his numerous fundamental contributions over the past four decades in the area of logic and semantics of computation.
- The **EATCS Presburger Award** (<https://eatcs.org/index.php/presburger>) is awarded by the EATCS to a young scientist for outstanding contributions



in theoretical computer science, documented by a published paper or a series of published papers. The recipients of the **Presburger Award 2024** are jointly **Justin Hsu** and **Pravesh Kothari**.

- The **Alonzo Church Award** for Outstanding Contributions to Logic and Computation (<https://eatcs.org/index.php/church-award>) is a major prize in cooperation of the EATCS with ACM Special Interest Group on Logic and Computation and the European Association for Computer Science Logic. The recipients of the **2024 Alonzo Church Award** are jointly **Thomas Ehrhard** and **Laurent Regnier**, for the introduction of the Differential λ -Calculus and Differential Linear Logic.

Moreover, during the conference, we will honor the recipients of the 2023 EATCS Distinguished Dissertation Award and the new group of EATCS Fellows.

The EATCS established the **EATCS Distinguished Dissertation Award** to promote and recognize outstanding dissertations in the field of Theoretical Computer Science (<https://eatcs.org/index.php/dissertation-award>). The three recipients of the **2023 EATCS Distinguished Dissertation Award** for the PhD dissertation in the field of Theoretical Computer Science that have been successfully defended in 2023 are

- **William Kuszmaul**: “Randomized Data Structures: New Perspectives and Hidden Surprises” (PhD at MIT; advisor: Charles E. Leiserson);
- **Nathan Klein**: “Finding Structure in Entropy: Improved Approximation



Algorithms for TSP and other Graph Problems” (PhD at the University of Washington; advisors: Anna Karlin and Shayan Oveis Gharan)

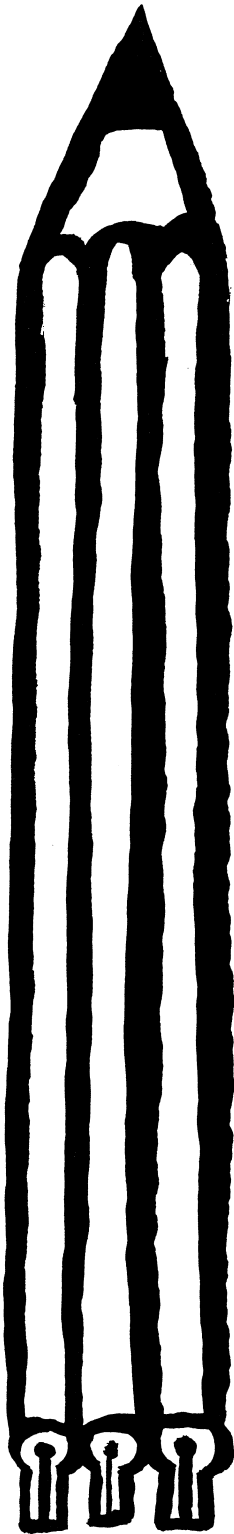
- **Ruiwen Dong:** “Algorithmic Problems for Subsemigroups of Infinite Groups” (PhD at the University of Oxford; advisors: Christoph Haase and James Worrell).

The **EATCS Fellows Program** is established by the EATCS to recognize outstanding EATCS Members for their scientific achievements in the field of Theoretical Computer Science. The new group of **EATCS Fellows (class 2024)** consists of

- **Yossi Azar** (Tel-Aviv University, Israel) for “many seminal contributions to the study of online and approximation algorithms, and for his long-standing service to the community,” and
- **Friedhelm Meyer auf der Heide** (Paderborn University, Germany) for “influential contributions to algorithmic and complexity-theoretic problems in parallel computing, communication and data management in networks, network dynamics, algorithms in computer graphics, and probabilistic analysis.”

In addition to the standard conference program, ICALP 2024 will also have ten satellite workshops co-located with the main conference, taking place on July 6-9, 2024, before the main event:

- **Algorithmic Aspects of Temporal Graphs VII (AATG 2024; July 7)**



- *Geometric and Topological Methods in Computer Science (GETCO 2024; July 6-7)*
- *Intersection Types and Related Systems (ITRS 2024; July 9)*
- *International Workshop on Confluence (IWC 2024; July 9)*
- *Learning and Automata (LearnAut 2024; July 7)*
- *Logical Frameworks and Meta-Languages: Theory and Practice (LFMTP 2024; July 8)*
- *Logic Mentoring Workshop (LMW 2024; July 7)*
- *Mathematically Structured Functional Programming (MSFP 202; July 8)*
- *Parameterized Approximation Algorithms Workshop (PAAW 2024; July 6)*
- *Parameterized Algorithms and Constraint Satisfaction (PACS 2024; July 7)*
- *Structure meets Power (SmP 2024; July 7)*
- *Trends in Arithmetic Theories (TAT 2024; July 6)*
- *Eighth International Workshop on Trends in Linear Logic and Applications (TLLA 2024; July 8-9)*
- *Women in Logic 2024 (9 July).*

Congratulations to the award winners and new EATCS Fellows!

On behalf of the EATCS, I also heartily thank the members of the awards,



dissertation and fellow committees for their work in the selection of this stellar set of award recipients and fellows. It will be a great honor to celebrate the work of these colleagues during ICALP 2024. (More details about the EATCS Award 2024, the EATCS Presburger Award 2024, 2024 Alonzo Church Award, the 2023 EATCS Distinguished Dissertation Award, the EATCS Fellows, and the Gödel Prize 2024 are presented on the later pages of this issue of the Bulletin.)

Also, please allow me to remind you about three other EATCS affiliated conferences that will be taking place later this year.

- **MFCS 2024:** the 49th International Symposium on Mathematical Foundations of Computer Science, will be held in Bratislava, Slovakia, August 26-30, 2024 (<http://www.mfcs.sk/>).
- **ESA 2024:** the 32nd Annual European Symposium on Algorithms, will be held at Royal Holloway, University of London in Egham, United Kingdom, September 2-4, 2024 (<https://algo-conference.org/2024/esa/>).
- **DISC 2024:** the 38th International Symposium on Distributed Computing, will be held in Madrid, Spain, October 28 - November 1, 2024 (<http://www.disc-conference.org/wp/disc2024/>).

As usual, let me close this letter by reminding you that you are always most welcome to send me your comments, criticisms and suggestions for improving the impact of the EATCS on the Theoretical Computer Science community at



president@eatcs.org. We will consider all your suggestions and criticisms carefully.

I look forward to seeing many of you at ICALP 2024 and to discussing ways of improving the impact of the EATCS within the theoretical computer science community at the general assembly.

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June 2024