7th International Conference on Creative Mathematical Sciences Communication (CMSC`24)

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The 7th International Conference on Creative Mathematical Sciences Communication (CMSC‘24)

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We are delighted to invite you to the 7th International Conference on Creative Mathematical Sciences Communication (CMSC‘24), happening from Monday to Thursday, October 7-10, 2024, at the University of Trier, Germany.

Prepare to be inspired as we bring together brilliant minds from across the globe to ignite a passion for mathematics and computing through innovative, interdisciplinary hands-on activities and dialogue. CMSC‘24 is all about pushing the boundaries of how we communicate computational thinking and research to the world, making complex concepts accessible and exciting for all.

What’s in Store?

• The Sorting Network: The iconic Sorting Network transforms parallel computing algorithms into captivating walk-along pathways that are easy to follow and lead to open questions, unknowns about symmetry, permutations, and social choice, discussed by Mike Fellows. Discover how you can create your own portable Sorting Network to engage audiences of all ages. The Network and cryptography activities are discussed in [4, 7].

• Dance Delight: Be mesmerized by Eric Stern’s unique dance performance that intertwines mathematical concepts with breathtaking choreography. The Karl Schaffer and Eric Stern Math Dance has dazzled audiences worldwide, from elite venues to the heart of impoverished communities. “Embodied learning” uses the joy of movement to get you investigating groups and other patterns that have mathematical properties [9].

• The Glass Bead Game: Discover a mathematical twist on this classic, brought to life by Frankfurt playwright and actress Verena Specht-Ronique, winner in the German Year of Mathematics. Michael Fellows has performed part of his “Passion Plays” of mathematics [5]. Every mathematical problem comes with a story, and mathematical theater is a great platform to explore these stories [5]. We look forward to the theatrical mathematical mystery that Verena will bring to this year’s CMSC.
QuBOBS, interactive objects and a Visual Representation to explain Quantum Computing: Join Sophie Laplante as she introduces a visual representation of qubits to assist in understanding quantum computing. The representation follows from physical devices that explain superposition, entanglement, measurement, phases, interference, and quantum gates. Learn how this representation can be used to explain teleportation and the Bennett-Brassard quantum key agreement protocol.

These are just glimpses of what awaits you at CMSC'24. The conference will spotlight a dazzling array of creative activities, from dance and theater to visual arts and more, all designed to make math and computer science come alive in new and exciting ways and to stimulate open problems accessible to children.

Get Ready for an Unforgettable Experience!

Join the Movement

Be part of the cutting-edge trend of blending the arts with math education. Engage with a community of passionate educators, researchers, and practitioners who are redefining how we share the beauty of mathematics with the world and inspire students to explore research conjectures and unsolved problems.

Don’t miss out on this electrifying event. Save the date and prepare for an unforgettable journey into the world of creative mathematical sciences communication at CMSC'24!

In an exciting collaboration, this year CMSC will be collocated with the third "Trierer Tag des Informatikunterrichts" (Teachers’ Day TTI), featuring a series of hands-on workshops conducted in German, French, and English.

Some Basic Details

WEBSITE: https://cmsc2024.uni-trier.de.
LOCATION: The University of Trier in Germany is hosting CMSC 2024.
CONFERENCE DATES: October 7-October 12, 2024.
VIRTUAL PARTICIPATION: Online access will be provided to lecture hall talks, but not to other (outside) activities.
ORGANIZERS: The program organizers are:
Professor Dr. Henning Fernau, Email: fernau@uni-trier.de
Professor Jacqueline Staub, Email: staub@uni-trier.de
Professor Dr. Inge Schwank, Email: inge.schwank@uni-koeln.de
PROCEEDINGS: Proceedings for CMSC 2024 will be published by Springer LNCS. You may submit an article to the proceedings if it has not already been published elsewhere. If you are not attending CMSC 2024, there will be a publication cost of 100 Euro, but your submission will still be reviewed for the proceedings. (Of course, it would be preferable if you can attend CMSC 2024 in Trier, even via zoom!)

As a benefit, the authors will be given access to the electronic version of the CMSC 2024 proceedings and they will receive a personal (paper) copy of the conference volume.

The submission date for a full or short paper was July 1st, 2024. Contact the program organizers if you are planning to submit a paper or for any further information.

Submissions must be formatted according to the Springer LNCS style guidelines using LaTeX. The maximum length of the paper (including references, but excluding the optional appendix) is 12 pages. The abstract should be 200-300 words.

Look for the Springer LNCS CMSC 2024 Proceedings that will be published later in the year to learn details of what transpired.

History of CMSC

The CMSC conference series was started in 2013 at Charles Darwin University in Darwin, Australia. It was funded with considerable support by Google Australia, the University, and the Australian Mathematics Society. The aim is to develop computational thinking materials and activities that are hands-on and do not require a computer and that help in understanding both the fundamentals of the science as well as share the open, unsolved problems that are being worked on currently by scientists. See [1, 2, 3] for examples and related issues. We believe outreach is a two-way street and that science thinking and research is broadened by listening to the students.

CMSC Conference links (see [6, 8] for more details):

- 2024 Trier, Germany: https://cmsc2024.uni-trier.de
- 2022 Bergen, Norway: https://cmsc-uib.org/
- 2020 Poznan, Poland online: https://cmsc.wmi.amu.edu.pl/online-event-uly-3-2020/
- 2016 Lübeck, Germany: http://www.tcs.uni-luebeck.de/sonderseiten/cmsc/
• 2014 Chennai, India: http://www.imsc.res.in/~cmsc2014/

Other links:
• Conference link at Theory Announcements: https://dmatheorynet.blogspot.com/2022/02/dmanet-creative-mathematical-sciences.html
• CMSC main website: https://csmaths.org

References


