

Call for Papers

Third International Workshop on Linearity

July 13, 2014
Vienna, Austria

An associated event of the Joint meeting of the 23rd EACSL Annual Conference on Computer Science Logic (CSL) and the 29th ACM/IEEE Symposium on Logic in Computer Science (LICS), as part of the Vienna Summer of Logic.

Important Dates:

April 13, 2014: Submission deadline
May 10, 2014: Author notification
May 28, 2014: Deadline for final versions of accepted papers
July 13, 2014: Workshop

Additional information available at <http://vsl2014.at/linearity>

Aim and Scope: With the urge for more robust, verifiable and optimised programming languages, the interest for linearity in order to have more control on computational resources is increasing in several areas of Computer Science, both in the theoretical side: with work on proof technology, complexity classes and more recently quantum computation, and in the practical side: work on program analysis, expressive operational semantics, linear languages, and techniques for program transformation, update analysis and efficient implementation. The topics of interest include new results that make central use of linearity, ranging from foundational work to applications in any field, are welcome. Also welcome are more exploratory presentations, which may examine open questions and raise fundamental concerns about existing theories and practices.

Topics of interest include, but are not limited to:

- sub-linear logics
- linear term calculi
- linear type systems
- linear proof-theory
- linear programming languages
- applications to concurrency
- interaction-based systems
- verification of linear systems
- quantum models of computation
- biological and chemical models of computation

Submission and Publication:

Authors are invited to submit an extended abstract (8 pages max) describing original ideas and recent results not published nor submitted elsewhere; or

a 5-page abstract presenting relevant work that has been or will be published elsewhere, or work in progress. Preliminary proceedings will be available at the workshop. Papers should be written in English, and submitted in PostScript or PDF format, using the EPTCS style files. Submission is through the EasyChair website: www.easychair.org/conferences/?conf=linearity2014. After the workshop, authors of the extended abstracts will be invited to submit a longer version of their work (typically a 15-pages paper) for publication in an electronic journal such as EPTCS. These submission will undergo a second round of refereeing. Furthermore, we envision publication of a special issue of a journal after the event.

Programme Committee:

- Sandra Alves (U. Porto, chair)
- Iliano Cervesato (CMU, chair)
- Kaustuv Chaudhuri (INRIA)
- Maribel Fernández (KCL)
- Mário Florido (U. Porto)
- Simon Gay (U. Glasgow)
- Simone Martini (U. Bologna)
- Luca Paolini (U. Torino)
- Simona Ronchi Della Rocca (U. Torino)
- Carsten Schuermann (ITU Copenhagen)
- Robert Simmons (CMU)
- Vasco Vasconcelos (U. Lisbon)

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