

IMPACT 2015 - 5th International Workshop on Polyhedral Compilation Techniques
Held in conjunction with HiPEAC '15, Amsterdam, January 19-21, 2015



Welcome to IMPACT 2015!
International Workshop on Polyhedral Compilation Techniques

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January 19, 2015

Program

Session I: Reductions and array reconstructions (10:00 – 11:10)

- ▶ On recovering multi-dimensional arrays in Polly
- ▶ Polly's polyhedral scheduling in the presence of reductions

Session II: Optimizations for performance (11:30 – 13:00)

- ▶ CPU+GPU load balance guided by execution time prediction
- ▶ Automatic tiling of "mostly-tileable" loop nests
- ▶ Mind the gap! A study of some pitfalls preventing peak performance in polyhedral compilation using a polyhedral antidote

Session III: Extending polyhedral techniques (15:00 – 16:30)

- ▶ Polyhedral transformations of explicitly parallel programs
- ▶ The power of polynomials
- ▶ Integer set coalescing

Session IV: Polyhedral-related tools & poster teasers (17:00 – 17:45)

- ▶ Manipulating visualization, not codes
- ▶ Lightning talks

Session V: Concluding remarks and discussions (17:45 –)

- ▶ Wrap-up and discussions on the reviewing process and dissemination

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► Statistics

	Accepted/Submitted		
	Regular	Tool	Position
2012	6/9	4/4	0/0
2013	4/6	0/0	2/2
2014	8/12	0/0	1/1
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- ▶ **NEW: 6 posters!**

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- ▶ **NEW: 6 posters!**
- ▶ Thank you!
 - ▶ Authors
 - ▶ PC members
 - ▶ Participants

Enjoy!

