

Schedule : Spring 2018

This is the tentative schedule of Mélange group for the Spring 2018 semester.

Meet time & Place : Wednesdays 10:00 AM - 11:00 AM @ CSB 305

WEEK	DATE	TOPIC	PRESENTER
0	01/17/2018	SPX proposal : PARRIC	Sanjay Rajopadhye
1	01/24/2018	Execution time models	Fabrice Rastello
2	01/31/2018	-	Sanjay Rajopadhye
3	02/07/2018	Vasily Volkov, James W. Demmel, Benchmarking GPUs to Tune Dense Linear Algebra , SC '08	Prerana Ghalsasi
4	02/14/2018	CANCELLED	Swetha Varadarajan
5	02/21/2018	Wlodzimierz Bielecki, Marek Pa lkowski, Tiling Arbitrarily Nested Loops by Means of the Transitive , Int. J. Appl. Math. Comput. Sci. 2016	Swetha Varadarajan
6	02/28/2018	F. Irigoin, R. Triolet, Supernode Partitioning , POPL '88	Louis-Noel Pouchet
7	03/07/2018	NO MEETING	
8	03/14/2018	SPRING BREAK	
9	03/21/2018	Patrice Quinton, Vincent van Dongen, The mapping of linear recurrence equations on regular arrays , Journal of VLSI signal processing systems for signal, image and video technology 1989 Sanjay V. Rajopadhye, S. Purushothaman, Richard Fujimoto, On Synthesizing Systolic Arrays from Recurrence Equations with Linear Dependencies , Proceedings of the Sixth Conference on Foundations of Software Technology and Theoretical Computer Science	Corentine Ferry
10	03/28/2018	J-F. Collard, D. Barthou, P. Feautrier, Fuzzy Array Data Flow Analysis , Journal of Parallel and Distributed Computing 1997	Tarequl, Sifat
11	04/04/2018	TBD	
12	04/11/2018	TBD	
13	04/18/2018	TBD	
14	04/25/2018	TBD	
15	05/02/2018	TBD	
16	05/09/2018	TBD	

Reading Pool

- Y. H. Chen, T. Krishna, J. S. Emer, V. Sze, [Eyeriss: An Energy-Efficient Reconfigurable Accelerator for Deep Convolutional Neural Networks](#), IEEE Journal of Solid-State Circuits 2017

- William F. Ogilvie, Pavlos Petoumenos, Zheng Wang, Hugh Leather, [Minimizing the Cost of Iterative Compilation with Active Learning](#), CGO '17
- Chris Cummins, Pavlos Petoumenos, Zheng Wang, Hugh Leather, [Synthesizing benchmarks for predictive modeling](#)
- Johannes Doerfert, Tobias Grosser, Sebastian Hack, [Optimistic Loop Optimization](#)
- Wlodzimierz Bielecki, Marek Pałkowski, [Tiling Arbitrarily Nested Loops by Means of the Transitive](#), Int. J. Appl. Math. Comput. Sci. 2016
- Wenlei Bao, Changwan Hong, Sudheer Chunduri, Sriram Krishnamoorthy, Louis-Noel Pouchet, Fabrice Rastello, P. Sadayappan, [Static and Dynamic Frequency Scaling on Multicore CPUs](#), ACM Trans. Archit. Code Optim. 2016
- Daniel J. Milroy, Allison H. Baker, Dorit M. Hammerling, John M. Dennis, Sheri A. Mickelson, Elizabeth R. Jessup, [Towards Characterizing the Variability of Statistically Consistent Community Earth System Model Simulations](#), Procedia Computer Science 2016
- Audrunas Gruslys, Rami Munos, Ivo Danihelka, Marc Lanctot, Alex Graves, [Memory-Efficient Backpropagation Through Time](#), CoRR 2016
- U. Bondhugula, V. Bandishti, I. Pananilath, [Diamond Tiling: Tiling Techniques to Maximize Parallelism for Stencil Computations](#), IEEE Transactions on Parallel and Distributed Systems 2016
- T. Nowatzki, J. Menon, C. H. Ho, K. Sankaralingam, [Architectural Simulators Considered Harmful](#), IEEE Micro 2015
- J. D. Garvey, T. S. Abdelrahman, [Automatic Performance Tuning of Stencil Computations on GPUs](#), 2015 44th International Conference on Parallel Processing
- Eric Chung Kalin Ovtcharov, [Accelerating Deep Convolutional Neural Networks Using Specialized Hardware](#)
- Protonu Basu, Mary Hall, Samuel Williams, Brian Van Straalen, Leonid Oliker, Phillip Colella, [Compiler-Directed Transformation for Higher-Order Stencils](#), IPDPS '15
- Andrew Putnam, Adrian M. Caulfield, Eric S. Chung, Derek Chiou, Kypros Constantinides, John Demme, Hadi Esmaeilzadeh, Jeremy Fowers, Gopi Prashanth Gopal, Jan Gray, Michael Haselman, Scott Hauck, Stephen Heil, Amir Hormati, Joo-Young Kim, Sitaram Lanka, James Larus, Eric Peterson, Simon Pope, Aaron Smith, Jason Thong, Phillip Yi Xiao, Doug Burger, [A Reconfigurable Fabric for Accelerating Large-scale Datacenter Services](#), ISCA '14
- Sharan Chetlur, Cliff Woolley, Philippe Vandermersch, Jonathan Cohen, John Tran, Bryan Catanzaro, Evan Shelhamer, [cuDNN: Efficient Primitives for Deep Learning](#), CoRR 2014
- Martin Kong, Richard Veras, Kevin Stock, Franz Franchetti, Louis-Noel Pouchet, P. Sadayappan, [When Polyhedral Transformations Meet SIMD Code Generation](#), SIGPLAN Not. 2013
- Louis-Noel Pouchet, Peng Zhang, P. Sadayappan, Jason Cong, [Polyhedral-based Data Reuse Optimization for Configurable Computing](#), FPGA '13
- Sven Verdoolaege, Gerda Janssens, Maurice Bruynooghe, [Equivalence Checking of Static Affine Programs Using Widening to Handle Recurrences](#), ACM Trans. Program. Lang. Syst. 2012

- Vinayaka Bandishti, Irshad Pananilath, Uday Bondhugula, [Tiling Stencil Computations to Maximize Parallelism](#), SC '12
- Henry Wong, Vaughn Betz, Jonathan Rose, [Comparing FPGA vs. Custom Cmos and the Impact on Processor Microarchitecture](#), FPGA '11
- M.-W. Benabderrahmane, L.-N. Pouchet, Cohen A., C. Bastoul, [The Polyhedral Model Is More Widely Applicable Than You Think](#), LNCS
- Andrew R. Putnam, Dave Bennett, Eric Dellinger, Jeff Mason, Prasanna Sundararajan, [CHiMPS: A High-level Compilation Flow for Hybrid CPU-FPGA Architectures](#), FPGA '08
- Vasily Volkov, James W. Demmel, [Benchmarking GPUs to Tune Dense Linear Algebra](#), SC '08
- Milind Kulkarni, Keshav Pingali, Bruce Walter, Ganesh Ramanarayanan, Kavita Bala, L. Paul Chew, [Optimistic Parallelism Requires Abstractions](#), PLDI '07
- Paul Feautrier, [Scalable and Structured Scheduling](#), Int. J. Parallel Program. 2006
- Steven J. Deitz, Bradford L. Chamberlain, Lawrence Snyder, [Eliminating Redundancies in Sum-of-product Array Computations](#), ICS '01
- Martin Griebl, Paul Feautrier, Christian Lengauer, [Index Set Splitting](#), International Journal of Parallel Programming 2000
- J-F. Collard, D. Barthou, P. Feautrier, [Fuzzy Array Data Flow Analysis](#), Journal of Parallel and Distributed Computing 1997
- J. Cong, Yuzheng Ding, [FlowMap: an optimal technology mapping algorithm for delay optimization in lookup-table based FPGA designs](#), IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems
- Paul Feautrier, [Some Efficient Solutions to the Affine Scheduling Problem {Part II}. Multidimensional Time](#), International Journal of Parallel Programming 1992
- Paul Feautrier, [Some Efficient Solutions to the Affine Scheduling Problem {Part I}. One-dimensional Time](#), International Journal of Parallel Programming 1992
- P. Feautrier, [Dataflow analysis of array and scalar references](#), International Journal of Parallel Programming 1991
- Patrice Quinton, Vincent van Dongen, [The mapping of linear recurrence equations on regular arrays](#), Journal of VLSI signal processing systems for signal, image and video technology 1989
- D. Baxter, R. Mirchandaney, J. H. Saltz, [Run-time Parallelization and Scheduling of Loops](#), SPAA '89
- F. Irigoin, R. Triolet, [Supernode Partitioning](#), POPL '88
- Sanjay V. Rajopadhye, S. Purushothaman, Richard Fujimoto, [On Synthesizing Systolic Arrays from Recurrence Equations with Linear Dependencies](#), Proceedings of the Sixth Conference on Foundations of Software Technology and Theoretical Computer Science

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