

Schedule : Fall 2019

This is the tentative schedule of Mélange group for the Fall 2019 semester.

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

WEEK	DATE	TOPIC	PRESENTER
0	08/28/2019	Intros and Planning	all
1	09/04/2019	Canceled	-
2	09/11/2019	Research work	Sanjay
3	09/18/2019	Research work	Louis-Noël
4	09/25/2019	Effective Resource Management for Enhancing Performance of 2D and 3D Stencils on GPUs	Louis-Noël
5	10/02/2019	Understanding Reuse, Performance, and Hardware Cost of DNN Dataflows: A Data-Centric Approach	Sanjay
6	10/09/2019		
7	10/16/2019		
8	10/23/2019		
9	10/30/2019		
10	11/06/2019		
11	11/13/2019		
12	11/20/2019		
13	11/27/2019	Fall Break	
14	12/04/2019		
15	12/11/2019		
16	12/18/2019	Exam week	

Current Reading Pool

- Nicolas Vasilache, Oleksandr Zinenko, Theodoros Theodoridis, Priya Goyal, Zachary Devito, William S. Moses, Sven Verdoolaege, Andrew Adams, Albert Cohen, [The Next 700 Accelerated Layers: From Mathematical Expressions of Network Computation Graphs to Accelerated GPU Kernels, Automatically](#), ACM Trans. Archit. Code Optim. 2019
- Travis Augustine, Janarthanan Sarma, Louis-Noël Pouchet, Gabriel Rodríguez, [Generating Piecewise-regular Code from Irregular Structures](#), PLDI 2019
- Hyoukjun Kwon, Michael Pellauer, Tushar Krishna, [Understanding Reuse, Performance, and Hardware Cost of DNN Dataflows: A Data-Centric Approach](#), CoRR 2018
- 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
- Prashant Singh Rawat, Changwan Hong, Mahesh Ravishankar, Vinod Grover, Louis-Noël Pouchet, P. Sadayappan, [Effective Resource Management for Enhancing Performance of 2D and 3D Stencils on GPUs](#), GPGPU '16
- Kevin Stock, Martin Kong, Tobias Grosser, Louis-Noël Pouchet, Fabrice Rastello, J. Ramanujam, P. Sadayappan, [A Framework for Enhancing Data Reuse via Associative Reordering](#), PLDI '14

Previous Reading Pool

- Zimin Chen, Steve Kommrusch, Michele Tufano, Louis-Noël Pouchet, Denys Poshyvanyk, Martin Monperrus, [SequenceR: Sequence-to-Sequence Learning for End-to-End Program Repair](#), arXiv e-prints 2018
- Gabriel Rodriguez, Louis-Noël Pouchet, [Polyhedral Modeling of Immutable Sparse Matrices](#), 8th International Workshop on Polyhedral Compilation Techniques (IMPACT'19)
- Simon Rokicki, Erven Rohou, Steven Derrien, [Hybrid-DBT Hardware/Software Dynamic Binary Translation Targeting VLIW](#), IEEE Transactions on CAD 2018
- Ali Ebrahimpour Boroojeny, Akash Shrestha, Ali Sharifi-Zarchi, Suzanne Renick Gallagher, S. Cenk Sahinalp, Hamidreza Chitsaz, [GTED: Graph Traversal Edit Distance](#), Research in Computational Molecular Biology
- Song Han, Xingyu Liu, Huizi Mao, Jing Pu, Ardavan Pedram, Mark A. Horowitz, William J. Dally, [EIE: Efficient Inference Engine on Compressed Deep Neural Network](#), CoRR 2016
- Sven Verdoolaege, Gerda Janssens, Maurice Bruynooghe, [Equivalence Checking of Static Affine Programs Using Widening to Handle Recurrences](#), ACM Trans. Program. Lang. Syst. 2012
- Sven Verdoolaege, Gerda Janssens, Maurice Bruynooghe, [Equivalence Checking of Static Affine Programs Using Widening to Handle Recurrences](#), ACM Trans. Program. Lang. Syst. 2012

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