Schedule : Spring 2019

This is the tentative schedule of Mélange group for the Spring 2019 semester.
Meeting time & Place : Tuesdays 12:30 PM - 1:30 PM @ CSB 305

WEEK	DATE	TOPIC	PRESENTER
1	1/29	Discussed Melange theme and organization	Louis-Noel Pouchet
2	2/5	• Gabriel Rodriguez, Louis-No{ë}l Pouchet, Polyhedral Modeling of Immutable Sparse Matrices , 8th International Workshop on Polyhedral Compilation Techniques (IMPACT'19)	Louis-Noel Pouchet
3	2/12	Group lunch at location Avogadro's Number (605 S Mason). Meet there at 12:30 for discussion of Melange participation goals and current research	all
4	2/19	• Simon Rokicki, Erven Rohou, Steven Derrien, Hybrid-DBT Hardware/Software Dynamic Binary Translation Targeting VLIW, IEEE Transactions on CAD 2018	Steven Derrien
5	2/26	• 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	Jana Sharma
6	3/5	• 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	Steve Kommrusch
7	3/12	• 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	Ali Ebrahimpour Boroojeny
9	3/26	Steve presented slides on GTC2019; Corentin presented on polyhedral program compression in FPGAs	Steve Kommrusch; Corentin Ferry
10	4/2	Toward a more efficient control of resource sharing for FPGA High-Level Synthesis	Nicolas Derumigny
11	4/9	Analytical modeling of cache behavior for affine programs	Louis-Noel Pouchet
12	4/16	Automating and Enhancing Compiler-Driven Compression on FPGAs	Corentin Ferry
13	4/23	Generating Piecewise-Regular Code from Irregular Structures	Travis Augustine
14	4/30	Discovering Distributed Cache Mapping for Improved Performance	Steve Kommrusch
15	5/7	Pruning and acceleration of Neural Networks	Jana Sharma

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-No{ë}l 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

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