Schedule : Spring 2020

This is the tentative schedule of Mélange group for the Spring 2020 semester.

WEEK	DATE	TOPIC	PRESENTER			
1	01/21/2020	Intro meeting				
2	01/28/2020	Structural Language Models for Any-Code Generation https://arxiv.org/abs/1910.00577	Steve Kommrusch			
3	02/04/2020	Polynomial Code Generation	Louis Narmour			
4	02/11/2020	Hierarchical DAG Scheduling for Hybrid Distributed Systems https://hal.inria.fr/hal-01078359/document	Alexandre			
5	02/18/2020	A Tropical Semiring Multiple Matrix-Product Library on GPUs: a step towards RNA-RNA Interaction Computations (PDF sent in email on 2/13)	Brandon			
6	02/25/2020	Irregular Computations https://irregtutorial.github.io/	Louis-Noel Pouchet			
7	03/03/2020	No meeting				
8	03/10/2020	The truth, the whole truth, and nothing but the truth: A pragmatic guide to assessing empirical evaluations. https://kar.kent.ac.uk/55171/1/Blackburn%2B2016TOPLAS.pdf	Louis-Noel and Sanjay			
9	03/17/2020	Spring Break - no meeting				
10	03/24/2020	Extended spring break				
11	03/31/2020	Stripe: Tensor Compilation via the Nested Polyhedral Model https://arxiv.org/pdf/1903.06498.pdf	Chiranjeb Mondal			
12	04/07/2020	No meeting				
13	04/14/2020	Glow: Graph Lowering Compiler Techniques for Neural Networks: https://arxiv.org/pdf/1805.00907.pdf	Louis Narmour			
14	04/21/2020	Simplifying reductions, Gautam Gupta and Sanjay Rajopadhye (POPL 2006) `https://dl.acm.org/doi/abs/10.1145/1111037.1111041` | Sanjay |	15	04/28/2020	Co-optimizing memory-level parallelism and cache-level parallelism: https://dl.acm.org/doi/10.1145/3314221.3314599	Brandon Gildemaster
16	05/05/2020		Alexandre			
17	05/12/2020	Project status - BP Part.	Chiranjeb Mondal			

Previous Semesters, including legacy reading lists

1. Fall 2019: https://www.cs.colostate.edu/AlphaZ/wiki/doku.php?id=melange:schedule:fall2019
2. Spring 2019: https://www.cs.colostate.edu/AlphaZ/wiki/doku.php?id=melange:schedule:spring2019

Standard paper study questions

1. Write a short (max 5 sentences) summary of the paper.
2. What is the problem addressed in the paper?
3. Why is the problem important?
4. How do the authors address the problem?
5. How do they evaluate their approach?
6. What is the punch-line (key cool idea, or “what I got out of this paper”)? This is often different for different people and different from what the authors may have intended.
7. Make a list of deeper questions that you would like discussed in the meeting.

Google Hangouts

If you anticipate calling in to the meeting instead of attending in person, perform these setup and test steps ideally by Friday the week before the meeting:

1. Go to: https://hangouts.google.com
2. In the upper right of the window (next to the 3×3 menu grid symbol) will be an icon for your

login; you can login to GH with a gmail account, or you can use "<username>@rams.colostate.edu". Other accounts may work; I haven't tested those.

3. SEND STEVE A TEST CHAT: in the "Enter name, email, or phone" window, enter 'steve.kommrusch@gmail.com' then send me 'Hi Steve' in the message window and I'll reply sometime during the next day.

Reading Pool in addition to presented papers above