Data Centric Networking and Systems: Paper Review Presentation Assignment

2014/01/28 Session 2: Programming in Data Centric Environment

Ilias Giechaskiel
1. Yuan Yu, Michael Isard, D. Fetterly, M. Budiu, U. Erlingsson, P.K. Gunda, J. Currey: [DryadLINQ: A System for General-Purpose Distributed Data-Parallel Computing Using a High-Level Language](#), OSDI, 2008.

Niko Stahl
5. Derek Murray, Malte Schwarzkopf, Christopher Smowton, Steven Smith, Anil Madhavapeddy and Steven Hand: [Ciel: a universal execution engine for distributed data-flow computing](#), NSDI 2011.

Karthik Nilakant (PhD Student) - NAIAD
6.1. Frank McSherry, Rebecca Isaacs, Michael Isard, and Derek G. Murray, [Composable Incremental and Iterative Data-Parallel Computation with Naiad](#), no. MSR-TR-2012-105, 2012.
6.2. D. Murray, F. McSherry, R. Isaacs, M. Isard, P. Barham, M. Abadi: [Naiad: A Timely Dataflow System](#), SOSP, 2013.

Gustaf Helgesson
7. P. Bhatotia, A. Wieder, R. Rodrigues, U. A. Acar, and R. Pasquini: [Incoop: MapReduce for incremental computation](#), ACM SOCC, 2011.

2014/02/04 Session 3: Processing Models of Large-Scale Graph Data

Valentin Dalibard (PhD Student)
2. G. Malewicz, M. Austern, A. Bik, J. Dehnert, I. Horn, N. Leiser, and G. Czajkowski: [Pregel: A System for Large-Scale Graph Processing](#), SIGMOD, 2010.

Haikal Pribadi
4. Z. Qian, X. Chen, N. Kang, M. Chen, Y. Yu, T. Moscibroda, Z.Zhang: [MadLINQ: large-scale distributed matrix computation for the cloud,](#) EuroSys, 2012.

William Sewell
5. S. Hong, H. Chafi, E. Sedlar, K.Olukotun: [Green-Marl: A DSL for Easy and Efficient Graph Analysis](#), ASPLOS, 2012.

Gustaf Helgesson (short presentation 15mins)
8. J. E. Gonzalez, Y. Low, H. Gu, D. Bickson, and C. Guestrin: [Powergraph: distributed graph-parallel computation on natural graphs](#). OSDI, 2012.

2014/02/18 Session 5: Graph Data Processing in Resource Limited Environment

Guest Lecture.

Niko Stahl (short presentation 15 mins)
2. A. Kyrola and G. Blelloch: [Graphchi: Large-scale graph computation on just a PC](#), OSDI, 2012.
Ilias Giechaskiel
4. X. Hu1, Y. Tao, C. Chung: [Massive Graph Triangulation](#), SIGMOD, 2013.
William Sewell
6. J. Zhong, B. He: [Medusa: Simplified Graph Processing on GPUs](#), IEEE TPDS, 2013.

2014/02/25 and 28 Session 6: Stream Data Processing and Data/Query Model

Guest Lecture.

Haikal Pribadi
7. E. Zeitler and T.Risch: [Massive scale-out of expensive continuous queries](#), VLDB, 2011.
Gustaf Helgesson
2. A. **6.** B.Gedik, H. Andrade, K. Wu, P. Yu, and M. Doo: [SPADE: the system S Declarative Stream Processing Engine](#) , SIGMOD. 2008

2014/03/04 Session 7: Data Centric Networking

William Sewell (short presentation 15 mins)
1.2.2. V. Jacobson, D. Smetters, J. Thornton, M. Plass, N. Briggs, R. Braynard: Networking Named Content, CACM, January, 2012.

Haikal Pribadi (short presentation 15 mins)
2.2.2. S. Ratnasamy, M. Handley, R. Karp, S. Shenker: Application-level multicast using content addressable networks, NGC, 2001.

Niko Stahl
3.2. M. Grossglauser, D. Tse: Mobility increases the capacity of ad-hoc wireless networks, IEEE/ACM Trans. on Networking, 10:477–486, 2002.

Ilias Giechaskiel (short presentation 15 mins)
3.1.1. N. Laoutaris, G. Smaragdakis, P. Rodriguez, R. Sundaram: Delay Tolerant Bulk Data Transfers on the Internet, SIGMETRICS, 2009.