Related Publications

International Conference/Workshop

- **AlphaZ: A System for Design Space Exploration in the Polyhedral Model**, Tomofumi Yuki, Gautam Gupta, DaeGon Kim, Tanveer Pathan, and Sanjay Rajopadhye, *25th International Workshop on Languages and Compilers for Parallel Computing* (LCPC'12), 2012 link
- **Model-Driven Engineering and Optimizing Compilers: A bridge too far?**, Antoine Floch, Tomofumi Yuki, Clement Guy, Steven Derrien, Benoit Combemale, Sanjay Rajopadhye, and Robert France, *International Conference on Model Driven Engineering Languages and Systems* (MODELS'11), 2011 link
- **ompVerify: Polyhedral Analysis for the OpenMP Programmer**, Vamshi Basupalli, Tomofumi Yuki, Sanjay Rajopadhye, Antoine Morvan, Steven Derrien, Patrice Quinton, and Dave Wonnacott, *7th International Workshop on OpenMP* (IWOMP'11), 2011 link
- **Scan Detection and Parallelization in "Inherently Sequential" Nested Loop Programs**, Yun Zou and Sanjay Rajopadhye, *10th International Symposium on Code Generation and Optimization* (CGO'12), 2012 pdf
- **Compilation of Structured Polyhedral Equations**, Yun Zou, Guillaume Iooss and Sanjay Rajopadhye *17th Workshop on Compilers for Parallel Computing,* (CPC'13), 2013 pdf

Talks

- **Automatic Complexity Reduction with the Polyhedral Equational Model**, Tomofumi Yuki, Sanjay Rajopadhye and Gautam Gupta, *Workshop on Leveraging Abstractions and Semantics in High-performance Computing* (LASH-C), 2013 link
- **AlphaZ and the Polyhedral Equational Model, Tomofumi Yuki and Sanjay Rajopadhye**, *Second International Workshop on Domain-Specific Languages and High-Level Frameworks for High Performance Computing* (WOLFHPC'12), 2012 link

Technical Reports

- **Parametrically Tiled Distributed Memory Parallelization of Polyhedral Programs**, Tomofumi Yuki and Sanjay Rajopadhye, *Technical Report CS-13-105*, Colorado State University, 2013 pdf
- **AlphaZ: A System for Analysis, Transformation, and Code Generation in the Polyhedral Equational Model**, Tomofumi Yuki, Vamshi Basupalli, Gautam Gupta, Guillaume Iooss, DaeGon Kim, Tanveer Pathan, Pradeep Srinivasa, Yun Zou, and Sanjay Rajopadhye, *Technical Report CS-12-101*, Colorado State University, 2012 pdf
- **Systematic Implementation of fast-i-loop in UNAfold using AlphaZ**, Tomofumi Yuki, Gautam Gupta, Tanveer Pathan, and Sanjay Rajopadhye, *Technical Report CS-12-102*, Colorado State University, 2012 pdf
- **Automatic Parallelization of "Inherently Sequential" Nested Loop Programs**, Yun Zou

and Sanjay Rajopadhye, *Technical Report CS-11-102*, Colorado State University, 2011 pdf

Dissertation/Thesis

- **Beyond Shared Memory Loop Parallelism in the Polyhedral Model**, Tomofumi Yuki, *Ph.D. Dissertation*, Colorado State University, Fall 2012 pdf
- **The AlphaZ verifier**, Vamshi Basupalli, *MS Thesis*, Colorado State University, Fall 2011 pdf
- **Code generation in AlphaZ**, Pradeep Srinivasa, *MS Thesis*, Colorado State University, Spring 2011 pdf
- **RNA secondary structure prediction using AlphaZ**, Tanveer Pathan, *MS Thesis*, Colorado State University, Fall 2010 pdf
- **Automatic Parallelization of "Inherently Sequential" Nested Loop Programs**, Yun Zou, *MS Thesis*, Colorado State University, Fall 2011 pdf