## **Processing large graphs in parallel** E. Krepska, T. Kielmann, W. Fokkink, H.Bal VU University Amsterdam, Netherlands



- Push-button automatic parallelization
- Easy programming (exposed vertex/edge)
- Structure-driven fine-grained computations
- Handles billions of vertices and edges
- Efficient w.r.t. memory and computation





• Genetic networks

Speedup of selected HipG applications run using 4-128 workers (2 per machine) on the DAS-4/VU cluster, on graphs with up to 10<sup>10</sup> of vertices and edges. On 64 machines obtained efficiency of 60-80%.

Talk We're looking for to us! new applications

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## Download/papers: http://www.cs.vu.nl/~ekr/HipG