Yasushi Hayashi

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Personal information

- Nationality: Japanese
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Research interests

High level parallel programming, functional programming, high performance computing, cost modeling and performance prediction of parallel computation.

Degrees

2002	Ph.D. in Computer Science, University of Edinburgh (Thesis Title: Shape-based Cost Analysis of Skeletal Parallel Programs)
1995	M.S. in Mathematics, Tokyo University of Science (Thesis Title: H^1-error Estimate in FEM and Adaptive Refinement for Boundary Singularities)
1992	B.S. in Mathematics, Tokyo University of Science

Publications

- Y. Hayashi and M. Cole, Automated Cost Analysis of a Parallel Maximum Segment Sum Program Derivation, to appear in *Parallel Processing Letters*, World Scientific, 2002.
- Y. Hayashi and M. Cole, Static Performance Prediction of Skeletal Parallel Programs, to appear in *Journal of Parallel Algorithms and Applications*, Taylor & Francis, 2002.
- Y. Hayashi and M. Cole, BSP-based Cost Analysis of Skeletal Programs. In *Trends in Functional Programming* (selected papers from First Scottish Functional Programming Workshop), eds. G. Michaelson and P. Trinder, pages 20–28, Intellect, 2000.

Talks presented

- BSP-based Cost Analysis of Skeletal Programs, First Scottish Functional Programming Workshop, at University of Stirling, August 1999
- BSP Cost Analysis of Skeletal Programs, Dagstuhl Seminar on High Level Parallel Programming: Applicability, Analysis and Performance , at International Conference and Research Center for Computer Science, Saarbrcken, April 1999
- BSP Cost Analysis of Skeletal Programs, Scottish Functional Parallel Interest Group Meeting, at University of St. Andrews, July 1998
- Costing Functional Array Programs, Scottish Functional Parallel Interest Group Meeting, at Heriot-Watt University, December 1997

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