

References

- [1] Geir Åge Øye and Hilde Reme. Parallelization of a compositional simulator with a galerkin coarse/fine method. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 586–594. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [2] Dino Ahr and Andreas Bäcker. Project workspaces for parallel computing — the trapper approach. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 98–107. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [3] P. Alonso, R. Cortina, and J. Ranilla. Block-striped partitioning and neville elimination. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1073–1077. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [4] Roberto Ansaloni, Paolo Malfetti, and Tiziana Paccagnella. Porting a limited area numerical weather forecasting model on a scalable shared memory parallel computer. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1435–1438. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [5] Gabriel Antoniu and Christian Perez. Using preemptive thread migration to load-balance data-parallel applications. In P. Amestoy,

- P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 117–124. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [6] Gheorghe Antonoiu and Pradip K. Srimani. Mutual exclusion between neighboring nodes in an arbitrary system graph tree that stabilizes using read/write atomicity. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 823–830. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [7] Luciana Bezerra Arantes, Bertil Folliot, and Pierre Sens. A node count-independent logical clock for scaling lazy release consistency protocol. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 815–822. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [8] Peter Arbenz, Andrew Cleary, Jack Dongarra, and Markus Hegland. A comparison of parallel solvers for diagonally dominant and general narrow-banded linear systems ii. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1078–1087. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [9] D.R. Avresky and S. Geoghegan. Software implemented fault tolerance in hypercube. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99*

- (Toulouse, France, August 31 - September 3, 1999), volume 1685 of *LNCS*, pages 515–518. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [10] Jean-Paul Bahsoun, Rami El-Baïda, and Hugues-Olivier Yar. Decision procedure for temporal logic of concurrent objects. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1344–1352. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [11] Roberto Baldoni, Francesco Quaglia, and Michel Raynal. Distributed database checkpointing. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 450–458. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [12] Evripidis Rodolphe Giroudeau Bampis and Jean-Claude König. Using duplication for the multiprocessor scheduling problem with hierarchical communications. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 369–372. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [13] Michel Barreteau, François Bodin, Zbigniew Chamski, Henri-Pierre Charles, Christine Eisenbeis, John Gurd, Jan Hoogerbrugge, Ping Hu, William Jalby, Toru Kisuki, Peter M.W. Knijnenburg, Paul van der Mark, Andy Nisbet, Michael F.P. O'Boyle, Erven Rohou, André Sez nec, Elena A. Stöhr, Menno Treffers, and Harry A.G. Wijshoff. Oceans — optimising compilers for embedded applications. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August*

- 31 - September 3, 1999), volume 1685 of *LNCS*, pages 1171–1175. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [14] Venansius Baryamureeba, Trond Steihaug, and Yin Zhang. Application of a class of preconditioners to large scale linear programming problems. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1044–1048. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [15] Ch. Becker, S. Kilian, S. Turek, and the FEAST Group. Consequences of modern hardware design for numerical simulations and their realization in feast. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 643–650. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [16] P. Becuzzi, M. Coppola, and M. Vanneschi. Mining of association rules in very large databases: A structured parallel approach. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1441–1450. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [17] Siegfried Benkner, Guy Lonsdale, and Hans Zima. The hpf+ project: Supporting hpf for advanced industrial applications. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1155–1165. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [18] Peter Benner, Enrique S. Quintana-Ortí, and Gregorio Quintana-Ortí. Solving stable stein equations on distributed memory computers. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1120–1123. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [19] Wolfgang Bietenholz, Norbert Eicker, Andreas Frommer, Thomas Lipert, Björn Medeke, and Klaus Schilling. A preconditioner for improved fermion actions. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1040–1043. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [20] Gianfranco Bilardi, Andrea Pietracaprina, and Geppino Pucci. A quantitative measure of portability with application to bandwidth-latency models for parallel computing. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 543–551. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [21] Eric Blayo, Laurent Debreu, Grégory Mounié, and Denis Trystram. Dynamic load balancing for ocean circulation model with adaptive meshing. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 303–312. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [22] Cristina Boeres, Aline Nascimento, and Vinod E.F. Rebello. Scheduling arbitrary task graphs on logp machines. In P. Amestoy, P. Berger,

- M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 340–349. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [23] Yann Boniface, Frédéric Alexandre, and Stéphane Vialle. A library to implement neural networks on mimd machines. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 935–938. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [24] Patricia Borensztein, Cristina Barrado, and Jesus Labarta. Influence of variable time operations in static instruction scheduling. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 213–216. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [25] László Böszörményi, Andreas Wickner, and Harald Wolf. Performance evaluation of object oriented middleware. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 258–261. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [26] O. Botti, V. de Florio, G. Deconinck, F. Cassinari, S. Donatelli, A. Bobbio, A. Klein, H. Kufner, R. Lauwereins, E. Thurner, and E. Verhulst. Tiran: Flexible and portable fault tolerance solutions for cost effective dependable applications. In P. Amestoy, P. Berger, M. Daydé, I. Duff,

- V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1166–1170. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [27] L.A. Boukas, N.Th. Mimikou, N.M. Missirlis, G.L. Mellor, A. Lascaratos, and G. Korres. The parallelization of the princeton ocean model. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1395–1402. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [28] Azzedine Boukerche and Sajal K. Das. Null messages cancellation through load balancing in distributed simulations. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 562–569. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [29] Zahia Brahim, Karima Ait Saadi, and Noria Baraka. Vector quantization-fractal image coding algorithm based on delaunay triangulation. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1018–1021. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [30] Thomas Brandes. Exploiting advanced task parallelism in high performance fortran via a task library. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 833–844. Springer-

Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [31] Richard P. Brent. Some parallel algorithms for integer factorisation. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1–22. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [32] Vanusa Menditi Calegario and Inês de Castro Dutra. Performance evaluation of or-parallel logic programming systems on distributed shared-memory architectures. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1484–1491. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [33] L. Carroll, B. Tondu, C. Baron, and J.C. Geffroy. Uml framework for the design of real-time robot controllers. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 511–514. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [34] Luiz M. Carvalho and Luc Giraud. Parallel subdomain-based preconditioner for the schur complement. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1032–1039. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [35] Henri Casanova, MyungHo Kim, James S. Plank, and Jack J. Dongarra. Adaptive scheduling for task farming with grid middleware. In

- P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 30–43. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [36] Luís Fernando Castro, Vítor Santos Costa, Cláudio F.R. Geyer, Fernando Silva, Patrícia Kayser Vargas, and Manuel E. Correia. Daos — scalable and-or parallelism. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 899–908. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [37] Marco Catunda, Noemi Rodriguez, and Roberto Ierusalimschy. Dynamic extension of corba servers. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1369–1376. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [38] F. Chalot, G. Chevalier, Q.V. Dinh, and L. Giraud. Some investigations of domain decomposition techniques in parallel cfd. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 595–602. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [39] B. Chapman, F. Bodin, L. Hill, J. Merlin, G. Viland, and F. Wollenweber. Fits — a light-weight integrated programming environment. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and

- D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 125–134. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [40] Frédérique Chaussumier, Frédéric Desprez, and Michel Loi. Efficient load-balancing and communication overlap in parallel shear-warp algorithm on a cluster of pcs. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 570–577. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [41] Chi-Hung Chi and Jun-Li Yuan. Design considerations of high performance data cache with prefetching. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1243–1250. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [42] José M. Claver, Vicente Hernández, and Enrique S. Quintana-Ortí. Parallel cyclic wavefront algorithms for solving semidefinite lyapunov equations. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1104–1111. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [43] Albert Cohen and Vincent Lefebvre. Storage mapping optimization for parallel programs. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of

LNCS, pages 375–382. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [44] M. Colajanni, B. Ciciani, and F. Quaglia. Performance analysis of wormhole switching with adaptive routing in a two-dimensional torus. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 165–172. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [45] Jean-François Collard. Array ssa for explicitly parallel programs. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 383–390. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [46] Jonathan Combs, Candice Bechem Combs, and John Paul Shen. Mispredicted path cache effects. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1322–1331. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [47] Daniel A. Connors, Jean-Michel Puiatti, David I. August, Kevin M. Crozier, and Wen-mei W. Hwu. An architecture framework for introducing predicated execution into embedded microprocessors. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1301–1311. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [48] Joerg Cordsen and Marco Dimas Gubitoso. Improving communication support for parallel applications. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 188–192. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [49] Ricardo C. Corrêa and Afonso Ferreira. A polynomial-time branching procedure for the multiprocessor scheduling problem. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 272–279. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [50] Philippe Courtier. Mercator, the mission. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 23–29. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [51] S. Crivelli, T. Head-Gordon, R. Byrd, E. Eskow, and R. Schnabel. A hierarchical approach for parallelization of a global optimization method for protein structure prediction. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 578–585. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [52] Jason B. Crop and Doran K. Wilde. Scheduling structured systems. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and

- D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 409–412. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [53] El Mostafa Daoudi and El Miloud Jaâra. Parallel methods of training for multilayer neural network. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 686–690. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [54] Dimitris Dimitrellos and Constantine Halatsis. Improving the performance of distributed shared memory environments on grid multiprocessors. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 159–162. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [55] Ramón Doallo, Basilio B. Fraguera, and Emilio L. Zapata. Set associative cache behavior optimization. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 229–238. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [56] Karel Driesen and Urs Hölzle. Multi-stage cascaded prediction. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1312–1321.

Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [57] Khalil Drira, Frédéric Gouëzec, and Michel Diaz. A cooperation service for corba objects — from the model to the applications. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 769–776. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [58] Kemal Ebcioglu, Erik R. Altman, Sumedh Sathaye, and Michael Gschwind. Execution-based scheduling for vliw architectures. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1269–1280. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [59] Volker Elling and Karsten Schwan. Min-cut methods for mapping dataflow graphs. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 203–212. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [60] Robert Elsässer, Andreas Frommer, Burkhard Monien, and Robert Preis. Optimal and alternating-direction load balancing schemes. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 280–290. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [61] M. Fikret Ercan, Ceyda Oğuz, and Yu-Fai Fung. Job scheduling in a multi-layer vision system. In P. Amestoy, P. Berger, M. Daydé, I. Duff,

- V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 317–321. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [62] T. Es-sqalli, E. Fleury, E. Dillon, and J. Guyard. Message-passing specification in a corba environment. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 113–116. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [63] Manfred Feil, Rade Kutil, and Andreas Uhl. Parallel wavelet transforms on multiprocessors. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1013–1017. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [64] Marco Ferretti and Davide Rizzo. Multimedia extensions and sub-word parallelism in image processing: Preliminary results. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 977–986. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [65] Armin Feßler and Hans-Jörg Schek. A generalized transaction theory for database and non-database tasks. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 459–468. Springer-

Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [66] Djamel Fezzani and Jocelyn Desbiens. épidaure: A java distributed tool for building dai applications. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, EURO-PAR'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 785–789. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [67] Dirk Fimmel and Renate Merker. Localization of data transfer in processor arrays. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 401–408. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [68] Claude Fischer, Jean-François Estrade, and Jure Jerman. Implementation of the limited-area numerical weather prediction model aladin in distributed memory. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1411–1416. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [69] M. Fleury, A.C. Downton, and A.F. Clark. Parallel structure in an integrated speech-recognition network. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 995–1004. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [70] S. Fotis, J.A. Keane, and R.I. Scott. Parallel data mining in the hyperbank project. In P. Amestoy, P. Berger, M. Daydé, I. Duff,

- V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1195–1198. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [71] A. Fouilloux and A. Piacentini. The palm project: Mpmc paradigm for an oceanic data assimilation software. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1423–1430. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [72] Roy Friedman, Assaf Schuster, Ayal Itzkovitz, Eli Biham, Erez Hadad, Vladislav Kalinovsky, Sergey Kleyman, and Roman Vitenberg. Symphony: Managing virtual servers in the global village. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 777–784. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [73] Jean-Marie Garcia, David Gauchard, Thierry Monteil, and Olivier Brun. Process mapping given by processor and network dynamic load prediction. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 291–294. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [74] Thierry Gautier and Niklaus Mannhart. Parallelism in aldor — the communication library *ii't* for parallel, distributed computation. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August*

31 - September 3, 1999), volume 1685 of *LNCS*, pages 1466–1475. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [75] Daniela Genius and Sylvain Lelait. Compiler-directed reordering of data by cyclic graph coloring. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1260–1264. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [76] Patrick Geoffrey, Laurent Lefèvre, CongDuc Pham, Loïc Prylli, Olivier Reymann, Bernard Tourancheau, and Roland Westrelin. High-speed lans: New environments for parallel and distributed applications. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 633–642. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [77] Kanad Ghose, Sudhir Aggarwal, Abhrajit Ghosh, David Goldman, Peter Sulatycke, Pavel Vasek, and David R. Vogel. Designing multiprocessor/distributed real-time systems using the asserts toolkit. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 505–510. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [78] Luc Giraud, Ronan Guivarch, and Joël Stein. A parallel distributed fast 3d poisson solver for méso-nh. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, EURO-PAR'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1431–1434. Springer-

Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [79] M. Gołębiewski, A. Basermann, M. Baum, R. Hempel, H. Ritzdorf, and J.L. Träff. A pc cluster with application-quality mpi. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 613–623. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [80] B. Großser and B. Lang. Using pentangular factorizations for the reduction to banded form. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1088–1095. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [81] Anshul Gupta, Fred Gustavson, Alexander Karaivanov, Jerzy Wasniewski, and Plamen Yalamov. Experience with a recursive perturbation based algorithm for symmetric indefinite linear systems. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1096–1103. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [82] E. Gutiérrez, O. Plata, and E.L. Zapata. On automatic parallelization of irregular reductions on scalable shared memory systems. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 422–429. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [83] Marc Guyon, Gurvan Madec, François-Xavier Roux, and Maurice Imbard. A parallel ocean model for high resolution studies. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 603–607. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [84] Pascal Hénon, Pierre Ramet, and Jean Roman. A mapping and scheduling algorithm for parallel sparse fan-in numerical factorization. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1059–1067. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [85] Christoph A. Herrman, Jan Laitenberger, Christian Lengauer, and Christian Schaller. Static parallelization of functional programs: Elimination of higher-order functions & optimized inlining. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 930–934. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [86] Wissam Hlayhel, Jacques Collet, and Laurent Fesquet. Implementing snoop-coherence protocol for future smp architectures. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 745–752. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [87] Weiwu Hu, Weisong Shi, and Zhimin Tang. Write detection in home-based software dsms. In P. Amestoy, P. Berger, M. Daydé, I. Duff,

- V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 909–913. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [88] Y.F. Hu, K.C.F. Maguire, and R.J. Blake. Ordering unsymmetric matrices into bordered block diagonal form for parallel processing. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 295–302. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [89] Felice Iavernaro and Francesca Mazzia. On the extension of the code gam for parallel computing. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1136–1143. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [90] Javier G. Izaguirre, José M. Jiménez, Unai Martín, Bruno Thomas, Alberto Larzábal, and Luis M. Matey. Parametric simulation of multi-body systems on networks of heterogeneous computers. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1187–1194. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [91] Patrick Jabouille, Ronan Guivarch, Philippe Kloos, Didier Gazen, Nicolas Gicquel, Luc Giraud, Nicole Asencio, Veronique Ducrocq, Juan Escobar, Jean-Luc Redelsperger, Joël Stein, and Jean-Pierre Pinty. Parallelization of the french meteorological mesoscale model mésonh. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and

- D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, EURO-PAR'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1417–1422. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [92] Christian Jacobi and Cédric Lichtenau. Highly concurrent locking in shared memory database systems. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 477–481. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [93] José M. Jiménez, Nassouh A. Chehayeb, Javier G. Izaguirre, Beidi Hamma, and Yan Thiaudière. High performance computing for optimum design of multi-body systems. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1199–1202. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [94] Guohua Jin and Y. Charlie Hu. An evaluation of high performance fortran compilers using the hpfbench benchmark suite. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 248–257. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [95] P. Kacsuk, R. Lovas, and J. Kovács. Systematic debugging of parallel programs in diwide based on collective breakpoints and macrosteps. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, Au-*

- gust 31 - September 3, 1999*), volume 1685 of *LNCS*, pages 90–97. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [96] Andreas Kähäri and Samuel Sundberg. Convergence acceleration for the euler equations using a parallel semi-toeplitz preconditioner. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1124–1127. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [97] Alexey Kalinov and Alexey Lastovetsky. mpc + scalapack = efficient solving linear algebra problems on heterogeneous networks. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1024–1031. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [98] Mahmut Kandemir, Alok Choudhary, and J. Ramanujam. I/o-conscious tiling for disk-resident data sets. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 430–439. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [99] B. Kasche, D. Fey, T. Höhn, and W. Erhard. 3d optoelectronic fix point unit and its advantages processing 3d data. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1005–1012. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [100] Jens Knoop. Parallel data-flow analysis of explicitly parallel programs. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 391–400. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [101] R. Kráľovič, B. Rován, and P. Ružička. Interval routing on layered cross product of trees and cycles. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1231–1239. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [102] D. Kranzlmüller, J. Chassin de Kergommeaux, and Ch. Schaub-schläger. Correction of monitor intrusion for testing nondeterministic mpi-programs. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 154–158. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [103] Ajay D. Kshemkalyani and Mukesh Singhal. Universal constructs in distributed computations. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 795–805. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [104] Chidamber Kulkarni, Koen Danckaert, Francky Catthoor, and Manish Gupta. Interaction between data parallel compilation and data transfer and storage cost minimization for multimedia applications. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, Au-*

- gust 31 - September 3, 1999*), volume 1685 of *LNCS*, pages 668–676. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [105] G. Laccetti and M. Lapegna. Pamihir — a parallel fortran program for multidimensional quadrature on distributed memory architectures. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1144–1148. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [106] Thierry Lafage, André Seznec, Erven Rohou, and François Bodin. Code cloning tracing: A “pay per trace” approach. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1265–1268. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [107] Michael G. Lamoureux and Andrew Rau-Chaplin. Parallel algorithms for grounded range search and applications. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 525–532. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [108] Michel Langlais, Guillaume Latu, Jean Roman, and Patrick Silan. Parallel numerical simulation of a marine host-parasite system. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 677–685. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [109] Erwin Laure. Parblocks — a new methodology for specifying concurrent method executions in opus. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 925–929. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [110] Erwin Laure, Matthew Haines, Piyush Mehrotra, and Hans Zima. Compiling data parallel tasks for coordinated execution. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 413–417. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [111] Mark Leair, Douglas Miles, Vincent Schuster, and Michael Wolfe. Flexible data distribution in pghpf. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 418–421. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [112] Alvin R. Lebeck, David R. Raymond, Chia-Lin Yang, and Mithuna S. Thottethodi. Annotated memory references: A mechanism for informed cache management. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1251–1254. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [113] Wilfrid Lefer and Jean-Marc Pierson. Using network of workstations to support a web-based visualization service. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz,

- editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 624–632. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [114] C. Limousin, A. Vartanian, and J-L. Béchenec. Popsy: A powerpc instrumentation tool for multiprocessor simulation. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 262–265. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [115] Welf Löwe and Wolf Zimmermann. Scheduling iterative programs onto logp-machine. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 332–339. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [116] Guangming Lu, Hartej Singh, Ming-hau Lee, Nader Bagherzadeh, Fadi Kurdahi, and Eliseu MC. Filho. The morphosys parallel reconfigurable system. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 727–734. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [117] Dominik Madoń, Eduardo Sánchez, and Stefan Monnier. A study of a simultaneous multithreaded processor implementation. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 716–726. Springer-

Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [118] Bart Maerten, Dirk Roose, Achim Basermann, Jochen Fingberg, and Guy Lonsdale. Drama: A library for parallel dynamic load balancing of finite element applications. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 313–316. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [119] Basilis Mamalis, Paul Spirakis, and Basil Tampakas. Parallel processing of multiple text queries on hypercube interconnection networks. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 482–486. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [120] Stéphane Mancini and Renaud Pacalet. Lux: An heterogeneous function composition parallel computer for graphics. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 940–949. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [121] Anna M. Manning and John A. Keane. Inducing load balancing and efficient data distribution prior to association rule discovery in a parallel environment. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1460–1463. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [122] Holger Märtens. On disk allocation of intermediate query results in parallel database systems. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 469–476. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [123] Bruno Martin. A parallel simulation of cellular automata by spatial machines. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 557–560. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [124] María J. Martín, Inmaculada Pardines, and Francisco F. Rivera. Scheduling of algorithms based on elimination trees on numa systems. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1068–1072. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [125] Andrea Matessi and Luca Lombardi. Vanishing point detection in the hough transform space. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 987–994. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [126] Mantšika Matoane and Arthur Norman. A parallel symbolic computation environment: Structures and mechanics. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 -*

- September 3, 1999*), volume 1685 of *LNCS*, pages 1492–1495. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [127] René Meier and Paddy Nixon. Managing fault tolerance transparently using corba services. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 519–522. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [128] Emmanuel Melin, Bruno Raffin, Xavier Rebeuf, and Bernard Viot. A cost model for asynchronous and structured message passing. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 552–556. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [129] David J. Miron and Patrick M. Lenders. Estimating computer performance for parallel sparse qr factorisation. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1049–1058. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [130] D. Morales, F. Almeida, F. Garcia, J. Gonzalez, J. Roda, and C. Rodriguez. A skeleton for parallel dynamic programming. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 877–887. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [131] John P. Morrison and Niall J. Dalton. Condensed graphs: A multi-level, parallel, intermediate representation. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 866–876. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [132] Aziz Moukrim, Eric Sanlaville, and Frédéric Guinand. Scheduling with communication delays and on-line disturbances. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 350–357. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [133] Costas Mourlas. Multiprocessor scheduling of real-time tasks with resource requirements. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 497–504. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [134] Jonathan Nash, Martin Berzins, and Paul Selwood. A structured sadt approach to the support of a parallel adaptive 3d cfd code. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 651–658. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [135] Uwe Nestmann, Hans Hüttel, Josva Kleist, and Massimo Merro. Aliasing models for object migration. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors,

- Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1353–1368. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [136] Cindy Norris and Jr. Fenwick, James B. Understanding and proving register assignment. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1255–1259. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [137] Eric Noulard and Nahid Emad. Object oriented design for reusable parallel linear algebra software. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1385–1392. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [138] Julian Ober and Ileana Stan. On the concurrent object model of uml. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1377–1384. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [139] Cherri M. Pancake. Applying human factors to the design of performance tools. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 44–60. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [140] Cheol Ho Park, Jong Hyuk Choi, Kyu Ho Park, and Daeyeon Park. An adaptive limited pointers directory scheme for cache coherence of scalable multiprocessors. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 753–756. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [141] Velisar Pavlov and Plamen Yalamov. Stability issues of the wang's partitioning algorithm for banded and tridiagonal linear systems. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1149–1152. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [142] Gerald G. Pechanek, Stamatis Vassiliadis, and Nikos Pitsianis. Manarray processor interconnection network: An introduction. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 761–765. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [143] Jan B. Pedersen and Alan Wagner. Pvmbuilder — a tool for parallel programming. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 108–112. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [144] Francesco Pessolano. Heterogeneous clustered processors: Organization and design. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99*

- (Toulouse, France, August 31 - September 3, 1999), volume 1685 of *LNCS*, pages 1296–1300. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [145] Alfredo Petrosino and Giuseppe Salvi. A robust neural network based object recognition system and its simd implementation. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 969–976. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [146] W. Pfannenstiel. Piecewise execution of nested parallel programs — a thread-based approach. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 445–448. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [147] Andy D. Pimentel and Louis O. Hertzberger. Evaluation of lh*lh for a multicomputer architecture. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, EURO-PAR'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 217–228. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [148] Luis Piñuel, Rafael A. Moreno, and Francisco Tirado. Implementation of hybrid context based value predictors using value sequence classification. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1291–1295. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [149] Benoît Planquelle, Jean-François Méhaut, and Nathalie Revol. Multi-protocol communications and high speed networks. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 139–143. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [150] Eleftherios D. Polychronopoulos and Theodore S. Papatheodorou. Scheduling user-level threads on distributed shared-memory multiprocessors. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 358–368. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [151] David Power and Russell Bradford. A library for parallel modular arithmetic. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1476–1483. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [152] M. Prieto, D. Espadas, I.M. Llorente, and F. Tirado. Message passing evaluation and analysis on cray t3e and sgi origin 2000 systems. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 173–182. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [153] V. Puente, J.A. Gregorio, C. Izu, and R. Beivide. Impact of the head-of-line blocking on parallel computer networks: Hardware to applications. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and

- D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1222–1230. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [154] Franz Puntigam. Non-regular process types. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1334–1343. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [155] Ramesh Radhakrishnan and Lizy Kurian John. A performance study of modern web server applications. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 239–247. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [156] Sanjay Rajopadhye, Claude Tadonki, and Tanguy Risset. The algebraic path problem revisited. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 698–707. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [157] Binoy Ravindran. Quality of service management in distributed asynchronous real-time systems. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 489–496. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [158] Michel Raynal. Illustrating the use of vector clocks in property detection: An example and a counter-example. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 806–814. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [159] Jeff Reeve. A performance estimator for parallel programs. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 193–202. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [160] Olivier Richard and Franck Cappello. A client/broker/server substrate with $50\mu s$ round-trip overhead. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, EURO-PAR'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 790–794. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [161] Salvatore Rinaudo, Francesco Moschella, and Marcello A. Anile. Parallel implementation in a industrial framework of statistical tolerancing analysis in microelectronics. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 663–667. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [162] Andreas Rodman and Mats Brorsson. Programming effort vs. performance with a hybrid programming model for distributed memory parallel architectures. In P. Amestoy, P. Berger, M. Daydé, I. Duff,

- V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 888–898. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [163] Milton Romero and Bruno Ciciani. A parallel architecture for stereoscopic processing. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 961–968. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [164] Claudia A. Sagastizábal and Mikhail V. Solodov. Parallel constrained optimization via distribution of variables. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1112–1119. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [165] Toshinori Sato. Decoupling recovery mechanism for data speculation from dynamic instruction scheduling structure. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1281–1290. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [166] William Sawyer, Lawrence Takacs, Andrea Molod, and Robert Lucchesi. Modular fortran 90 implementation of a parallel atmospheric general circulation model. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of

LNCS, pages 1403–1410. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [167] Kirk Schloegel, George Karypis, and Vipin Kumar. A new algorithm for multi-objective graph partitioning. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 322–331. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [168] Bertil Schmidt and Manfred Schimmler. A parallel accelerator architecture for multimedia video compression. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 950–960. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [169] J. Sébot Julien, A. Vartanian, J-L. Béchenec, and N. Drach-Temam. A parallel algorithm for 3d geometry transformations in opengl. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 659–662. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [170] Stephen Shafer and Kanad Ghose. Post-scheduling optimization of parallel programs. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 440–444. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [171] Girindra D. Sharma, Nael B. Abu-Ghazaleh, Umesh Kumar V. Rajasekaran, and Philip A. Wilsey. Optimizing message delivery in

- asynchronous distributed applications. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1204–1208. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [172] Takahiko Shintani, Masato Oguchi, and Masaru Kitsuregawa. Performance analysis for parallel generalized association rule mining on a large scale pc cluster. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1455–1459. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [173] Horst D. Simon, William T.C. Kramer, and Robert F. Lucas. Building the teraflops/petabytes production supercomputing center. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 61–77. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [174] Terence M. Sloan, Michael J. Mineter, Steve Dowers, Connor Mulholland, Gordon Darling, and Bruce M. Gittings. Partitioning of vector-topological data for parallel gis operations: Assessment and performance analysis. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 691–694. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [175] João Luís Sobral and Alberto José Proença. A run-time system for dynamic grain packing. In P. Amestoy, P. Berger, M. Daydé, I. Duff,

- V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 845–852. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [176] Mathew J. Sottile and Allen D. Malony. Interlace: An interoperation and linking architecture for computational engines. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 135–138. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [177] Thomas Sterlilng and Daniel Savarese. A coming of age for beowulf-class computing. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 78–88. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [178] Kilian Stoffel and Abdelkader Belkoniene. Parallel k/h -means clustering for large data sets. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1451–1454. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [179] Deependra Talla and Lizy Kurian John. Performance evaluation and benchmarking of native signal processing. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 266–270. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.

- [180] Michel Toulouse, Krishnaiyan Thulasiraman, and Fred Glover. Multi-level cooperative search: A new paradigm for combinatorial optimization and an application to graph partitioning. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 533–542. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [181] Juan Touriño and Ramón Doallo. Performance evaluation and modeling of the fujitsu ap3000 message-passing libraries. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 183–187. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [182] Denis Vanderstraeten. A stable and efficient parallel block gram-schmidt algorithm. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1128–1135. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [183] Alexis Vartanian, Jean-Luc Béchenec, and Nathalie Drach-Temam. Two schemes to improve the performance of a sort-last 3d parallel rendering machine with texture caches. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 757–760. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [184] Paulo B. Vasconcelos and Filomena D. d'Almeida. Nonoverlapping domain decomposition applied to a computational fluid mechanics code.

- In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 608–612. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [185] Stamatis Vassiliadis, Sorin Cotofana, and Pyrrhos Stathis. Vector isa extension for sparse matrix-vector multiplication. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 708–715. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [186] Xavier Verians, Jean-Didier Legat, Jean-Jacques Qisquater, and Benoit Macq. A graph-oriented task manager for small multiprocessor systems. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 735–744. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [187] Ken Wakita, Takashi Asano, and Masataka Sassa. D'caml: Native support for distributed ml programming in heterogeneous environment. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 914–924. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [188] San-Yuan Wang, Yu-Chee Tseng, Sze-Yao Ni, and Jang-Ping Sheu. Circuit-switched broadcasting in multi-port multi-dimensional torus networks. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse,*

- France, August 31 - September 3, 1999), volume 1685 of *LNCS*, pages 1209–1221. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [189] Paul A.S. Ward. An online algorithm for dimension-bound analysis. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 144–153. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [190] Noel Winstanley. Parallel programming by transformation. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 858–865. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [191] G. Zanghirati, F. Cocco, F. Taddei, and G. Paruolo. Cray t3e performances of a parallel code for a stochastic dynamic assets and liabilities management model. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 1176–1186. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.
- [192] Andrea Zavanella. Optimising skeletal-stream parallelism on a bsp computer. In P. Amestoy, P. Berger, M. Daydé, I. Duff, V. Frayssé, L. Giraud, and D. Ruiz, editors, *Proceedings of the 5th International Euro-Par Conference on Parallel Processing, Euro-Par'99 (Toulouse, France, August 31 - September 3, 1999)*, volume 1685 of *LNCS*, pages 853–857. Springer-Verlag, Berlin-Heidelberg-New York-Barcelona-Hong Kong-London-Milan-Paris-Singapore-Tokyo, 1999.