

# Author Index

- Akbar, M., 187  
Aliabadi, S., 187  
Attaoui, N., 335, 355  
Badica, C., 335, 355  
Brenner, G., 221  
Chen, H.M., 321  
Chetverushkin, B.N., 159  
Cognard, J.Y., 243  
Dingle, N.J., 105  
Drozdowicz, M., 335, 355  
Epstein, B., 269  
Eyheramendy, D., 135  
Filelis-Papadopoulos, C.K., 291  
Ganzha, M., 335, 355  
Garbey, M., 49  
Gentzsch, W., 21  
Giannoutakis, K.M., 291  
Gravvanis, G.A., 291  
Guok, C., 83  
Johnston, W.E., 83  
Kersten, T., 221  
Knottenbelt, W.J., 105  
Komzsik, L., 1  
Lebrecht, A.S., 105  
Lederer, H., 21  
Lin, Y.C., 321  
Lirkov, I., 335, 355  
Metzger, J., 83  
Monaco, E., 221  
Mony, C., 49  
Olejniak, R., 335, 355  
Oudin-Dardun, F., 135  
Palle, S., 187  
Paprzycki, M., 335, 355  
Patel, R., 187  
Peigin, S., 269  
Petcu, D., 335, 355  
Resch, M.M., 177  
Rinsurongkawong, W., 49  
Saad, R., 135  
Smaoui, M., 49  
Soni, B., 187  
Tierne, B., 83  
Verpeaux, P., 243  
Wasielewska, K., 335, 355  
Yilmaz, E., 187



# Keyword Index

- agent-based model, 49
- algorithms, 243
- applied aerodynamics, 269
- architectures, 177
  
- clonal plants, 49
- collaborative computing, 321
- computational efficiency, 269
- computational techniques, 1
- concurrency and distribution in Java, 135
- CUDA programming, 291
  
- data management, 83
- data mining, 49
- DEISA, 21
- distributed computing, 321
- distributed parallel, 1
- domain decomposition, 1, 135
  
- e-infrastructure, 21
- engineering applications, 21, 321
- explicit schemes, 159
  
- finite element analysis, 1, 135, 187
- finite volume, 187
  
- gamma radiation transport, 159
- genetic algorithm, 49
- GMRES, 187
- GPGPU, 159, 291
- grid computing, 321, 335, 355
- grid middleware, 321
- grid technology, 321
  
- heat transfer, 187
- high performance computing, 21, 177
  
- high performance distributed computing, 83
- high throughput networks, 83
- hybrid computing system, 159
  
- incompressible flows, 187
- industrial CFD based analysis and design, 269
- industrial environment, 243
  
- large scale problems, 243
- lattice Boltzmann method, 221
- load balancing, 243
  
- massive parallelization, 269
- multi-core, 1
- multilevel parallelization, 269
- multiphase flows, 221
- multiscale model, 49
  
- Navier-Stokes computations, 269
- negotiations, 355
- network services, 83
- non-linear computations, 243
  
- ontology, 335, 355
  
- parabolic equations, 159
- parallel approximate inverses, 291
- parallel computations, 291
- parallel cooperative strategy, 269
- parallel performance, 221
- parallel preconditioned conjugate gradient type methods, 291
- parallel strategies, 243
  
- quasi-gas dynamic equations, 159

queueing networks, 105

resource brokering and management, 335,  
355

science use of networks, 83

scientific applications, 21

semantic information processing, 335

service level agreement, 355

shallow water flow, 187

software, 177

software agents, 335, 355

solutions, 177

sparse linear systems, 291

stability condition, 159

stochastic modelling, 105

storage systems, 105

symbolic variational formulation, 135

two-fluid flows, 187

volunteer computing, 49



