

Author Index

- Baiges, J., 81
Bay, F., 193
Benson, D.J., 1
Bergamaschi, L., 347
Bertrand, Y., 49
- Cardinaux, D., 193
Carswell, D., 141
Cascón, J.M., 19
Codina, R., 81
Croft, T.N., 141
Cross, M., 141
- de Borst, R., 1
- Escobar, J.M., 19
- Gentzsch, W., 295
Giannoutakis, K.M., 317
Gravvanis, G.A., 317
- Hughes, T.J.R., 1
- Iatridis, N.D., 317
Innocente, M.S., 229
- Jaluria, Y., 159
- Ledoux, F., 49
Liew, K.M., 211
- Mackie, R.I., 273
Matsuno, K., 113
McBride, D., 141
Montenegro, R., 19
Montero, G., 19
- Naar, R., 193
- Noor, A.K., 255
- Rodríguez, E., 19
Rolland, S., 141
- Scott, M.A., 1
Sienz, J., 229
Slone, A.K., 141
Sun, Y.Z., 211
- Tsompanakis, Y., 373
- Verhoosel, C.V., 1
- Weill, J.-C., 49
Williams, A.J., 141

Keyword Index

- adaptive refinement, 19
- approximate boundary conditions, 81
- arbitrary Eulerian Lagrangian, 81
- arbitrary Lagrangian Eulerian, 113
- atomic simulation, 211
- avatars, 255

- carbon nanotubes, 211
- Cartesian cut cell method, 113
- cloud applications, 295
- cloud computing, 295
- coefficients, 229
- component oriented, 273
- computational fluid dynamics, 113, 141
- continuum simulation, 211
- convergence, 229
- coupled consolidation, 347
- C++, 49

- data management, 295
- data structure, 49
- DEISA project, 295
- design, 1
- digital ecosystems, 255
- distributed computing, 273
- distributed memory context, 49
- dynamic mesh method, 113

- electromagnetism, 193
- engineering applications, 295

- fault rupture, 373
- finite element analysis, 193, 273
- fixed mesh methods, 81
- fracture, 1

- generic programming, 49

- geometric conservation law, 113
- geosynthetics, 373
- grid applications, 295
- grid computing, 295

- heat transfer, 193
- higher-order continuum, 211

- immersed boundary method, 113
- immersive learning, 255
- isogeometric analysis, 1

- Krylov subspace methods, 347

- learnsapes, 255
- linear systems, 317

- Markov chains, 317
- memory optimisation, 49
- mesh representation, 49
- mesh untangling and smoothing, 19
- microchannel, 159
- moving boundary, 113
- moving domains, 81
- moving grid finite volume method, 113
- multimodal interaction, 255
- multiphysics couplings, 193
- multiprocessor systems, 317
- multiscale method, 211

- neighbourhood topology, 229
- nested meshes, 19
- numerical algorithms, 295
- numerical analysis, 193
- numerical simulation, 159

- object-oriented, 273

OpenMP, 317

optimisation, 193

parallel approximate inverses, 317

parallel computing, 141, 273

parallel preconditioned conjugate gradient method, 317

particle swarm, 229

permanent deformations, 373

preconditioning, 347

pressure driven, 159

product lifecycle, 255

reinforcement, 373

rotating systems, 141

saddle point, 347

scalability, 141

seismic hazard, 373

shear driven, 159

sliding, 373

slope stability, 373

solid mechanics, 193

surface parametrization, 19

synthetic environment, 255

T-splines, 1

tetrahedral mesh generation, 19

virtual worlds, 255

volume parametrization, 19

web information retrieval, 317



