

Index

- asynchronous methods, 203
- Banaś, K., 51
- Bielanski, J., 51
- Big Data, 1
- Boenisch, T., 1
- Chłoń, K., 51
- cloud computing, 109, 137
- code coupling, 79
- coupled heat and moisture transport, 183
- digital product, 79
- discrete element method, 109
- discrete particles, 109
- Docker containers, 109
- domain decomposition, 109
 - algebraic time, 158
- Emerson, D. R., 79
- evolutionary structural optimization, 29
- Farkas, Z., 137
- Filelis-Papadopoulos, C. K., 157
- finite element method, 51
- first-order homogenisation, 183
- GPU computing, 9, 29
- graphics processors, 51
- Gravvanis, G. A., 157
- heat transfer, 158
- Herrero-Pérez, D., 9, 29
- High Performance Computing, 1
- iterative methods, 203
- Kačeniauskas, A., 109
- Kacsuk, P., 137
- Kovács, J., 137
- Krejci, T., 183
- Kružel, F., 51
- Kruis, J., 183
- large-scale, 29
- Longshaw, S. M., 79
- Magoulès, F., 203
- Martínez-Frutos, J., 9, 29
- Moore's law, 1
- Moulinec, C., 79
- Moutafis, B. E., 157
- multi-physics, 79
- multi-scale, 79
- multicore microprocessors, 51
- multilevel
 - parallelism, 9
 - preconditioner, 29
- numerical integration and assembly, 51
- OpenCL, 51
- Pacevič, R., 109
- parallel computing, 203
- parallel hybrid solver, 158
- processor farming, 183
- Resch, M. M., 1
- service choreography, 137
- Skillen, A., 79
- software frameworks, 9
- space-time semi-aggregation, 158
- sparse linear systems, 158

sub-structuring methods, 203

sustainable architecture, 29

Theodosiou, H. G., 157

topology optimization, 9

two-scale model, 183

uncertainty, 9

visualization of cracks, 109

workflow, 137

