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Research interest: Mathematical analysis: partial differential equations and calculus of variations, function spaces, Applied mathematics: continuum physics and optimisation.

## Recent publications:

- [1] N. Antić, M. Vrdoljak: *Parabolic H-convergence and small-amplitude homogenization*, **Applicable Analysis** **88** (2009) 10-11, 1493-1508
- [2] N. Antić, M. Lazar: *Parabolic variant of H-measures in homogenisation of a model problem based on Navier–Stokes equation*, **Nonlinear Analysis B: Real World Applications** **11** (2010) 6, 4500-4512
- [3] N. Antić, K. Burazin: *Boundary operator from matrix field formulation of boundary conditions for Friedrichs systems*, **Journal of Differential Equations** **250** (2011) 9, 3630-3651
- [4] N. Antić, D. Mitrović: *H-distributions: an extension of H-measures to an  $L^p - L^q$  setting*, **Abstract and Applied Analysis** (In press)
- [5] N. Antić, K. Burazin, M. Vrdoljak: *Second-order equations as Friedrichs systems*, **Nonlinear Analysis B: Real World Applications** (in press)

## Selected publications:

- [1] N. Antić: *Memory effects in homogenisation: linear second-order equations*, **Archive for Rational Mechanics Analysis** **125** (1993) 1--24
- [2] N. Antić: *H-measures applied to symmetric systems*, **Proceedings of the Royal Society of Edinburgh A** **126** (1996) 1133-1155
- [3] N. Antić, M. Vrdoljak: *Sequential laminates in multiple-state optimal design problems*, **Mathematical Problems in Engineering** (2006) Art. ID 68695, 14 pp.
- [4] N. Antić, M. Lazar: *H-measures and variants applied to parabolic equations*, **Journal of Mathematical Analysis and Applications** **343** (2008) 1, 207-225
- [5] N. Antić, K. Burazin: *Intrinsic boundary conditions for Friedrichs systems*, **Communications in Partial Differential Equations** **35** (2010) 9, 1690-1715