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Research interest: Harmonic analysis and wavelets; Probabilty and stochastic
processes; Potential theory.

Recent publications:

[1] J.Cvitanić, S.Radas, H.Šikić „*Co-develoment ventures: Optimal time of entry and profit-sharing*", 2011, to appear in **J.Econ.Dyn.Cont**.
[2] H.Šikić, E.N.Wilson „*Lattice invariant subspaces and sampling*", **Appl. Comp. Harmonic Anal. 31** (2011), 26 – 43.
[3] E.Hernandez, H.Šikić, G.Weiss, E.Wilson „*On the properties of the integer translates of a square integrable function*", **Contemp.Math. 505** (2010), 233 – 249.
[4] M.Nielsen, H.Šikić „*Quasy-greedy systems of integer translates*", **J. Approx. Theory 155** (2008), 43 – 51.
[5] H.Šikić, R.Song, Z.Vondraček „*Potential theory of geometric stable processes*", **Prob. Theor. Rel. Fields 135** (2006), 547 – 575.

Selected publications:

[1] H.Šikić, M.H.Taibleson „*Brownian motion characterization of some Besov- Lipschitz spaces on domains*", **J. Geom. Anal. 15** (2005), 137 – 180.
[2] M.Huzak, M.Perman, H.Šikić, Z.Vondraček „*Ruin probabilities and decompositions for general perturbed risk processes*", **Ann. Appl. Prob. 14** (2004) 1378 – 1397.
[3] M.Papadakis, H.Šikić, G.Weiss „*The characterization of low pass filters and some basic properties of wavelets*", **J. Fourier Anal. Appl. 5** (1999), 495 – 521.
[4] J.Glover, M.Rao, H.Šikić, R.Song „*Quadratic forms corresponding to the generalized Schroedinger semigroups*", **J. Funct. Anal. 125** (1994), 358 – 378.
[5] H.Šikić „*Nonlinear perturbations of positive semigroups*", **Semigroup Forum 48** (1994), 273 – 302.