List of Publications of Nuutti Hyvönen (August 27, 2024)

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List of publications

The ten most important publications are listed; a complete list of publications can be found at https://users.aalto.fi/nhyvonen/.

A: Articles in peer-reviewed international scientific journals

1. H. Garde and N. Hyvönen. Linearised Calderón problem: Reconstruction and Lipschitz stability for infinite-dimensional spaces of unbounded perturbations. *SIAM Journal on Mathematical Analysis*, **56**:3588–3604, 2024 (https://doi.org/10.1137/23M1609270)

2. T. Helin, N. Hyvönen and J.-P. Puska. Edge-promoting adaptive Bayesian experimental design for X-ray imaging. *SIAM Journal on Scientific Computing*, **44**:B506–B530, 2022 (https://doi.org/10.1137/21M1409330)

3. H. Garde and N. Hyvönen. Series reversion in Calderón's problem. *Mathematics of Computation*, **91**:1925–1953, 2022 (https://doi.org/10.1090/mcom/3729)

4. V. Candiani, J. Dardé, H. Garde and N. Hyvönen. Monotonicity-based reconstruction of extreme inclusions in electrical impedance tomography. *SIAM Journal on Mathematical Analysis*, **52**:6234–6259, 2020 (https://doi.org/10.1137/19M1299219)

5. N. Hyvönen and L. Mustonen. Smoothened complete electrode model. *SIAM Journal on Applied Mathematics*, **77**:2250–2271, 2017. (https://doi.org/10.1137/17M1124292)

6. J. Dardé, A. Hannukainen and N. Hyvönen. An H_{div}-based mixed quasi-reversibility method for solving elliptic Cauchy problems. *SIAM Journal on Numerical Analysis*, **51**:2123–2148, 2013. (http://dx.doi.org/10.1137/120895123)

7. J. Dardé, N. Hyvönen, A. Seppänen and S. Staboulis. Simultaneous reconstruction of outer boundary shape and admittivity distribution in electrical impedance tomography. *SIAM Journal on Imaging Sciences*, **6**:176–198, 2013. (http://dx.doi.org/10.1137/120877301)

8. M. Hanke, B. Harrach and N. Hyvönen. Justification of point electrode models in electrical impedance tomography. *Mathematical Models and Methods in Applied Sciences*, **21**:1395–1413, 2011. (http://dx.doi.org/10.1142/S0218202511005362)

9. M. Hanke, N. Hyvönen and S. Reusswig. An inverse backscatter problem for electric impedance tomography. *SIAM Journal on Mathematical Analysis*, **41**:1948–1966, 2009. (http://dx.doi.org/10.1137/080739045)

10. N. Hyvönen. Complete electrode model of electrical impedance tomography: Approximation properties and characterization of inclusions. *SIAM Journal on Applied Mathematics*, **64**:902–931, 2004. (http://dx.doi.org/10.1137/S0036139903423303)