

Boundary element methods for variational inequalities

 $\underline{Olaf Steinbach}^1$

Variational inequalities to be considered in $H^{1/2}(\Gamma)$ result from different applications, e.g. boundary value problems with boundary conditions of Signorini type, contact problems in elasticity, or from constrained optimal control problems. In this talk we will discuss both the error analysis of the boundary element solution, and suitable iterative solution strategies.

¹ TU Graz, Institut für Numerische Mathematik, Graz, Austria, o.steinbach@tugraz.at