

# ON LEVEL SET REGULARIZATION APPROACHES AND SOME APPLICATIONS

Adriano De Cezaro

FURG, Brazil

## **Resumo/Abstract:**

In many situations, we are faced with problems that consist in recovering discontinuous coefficients in models, generally, given by partial differential equations. The focus of this talk is reviewing some of the level set approaches to recovering discontinuous coefficients and prove the applicability of the general theory for some examples, mainly, in coefficient identification for elliptic and parabolic partial differential equations related to different types of tomography.