

27th IFIP TC7 Conference 2015 on System Modelling and Optimization

Wellposedness, control, and observability theories for partial differential equations

## Dependence of Solutions of Elliptic Equations on Boundary Data

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**Abstract:** This talk will summarize some recent results on the representation of solutions of homogeneous linear elliptic equations on various different types of boundary data. Spectral representations of the solution operators will be described using non-standard eigenproblems. Some trace inequalities and well-posedness results are obtained.