



**CONTROLLABILITY OF CO-OPERATIVE  
DIRICHLET PARABOLIC SYSTEMS**

Mohammed Shehata

Received January 11, 2015

**Abstract**

In this communication, we introduce and study the various controllability problems for Dirichlet co-operative parabolic linear system involving Laplace operator with distributed or boundary controls and with observations belong to different spaces.

**Keywords and phrases:** optimal control problem, controllability, solutions of parabolic system, co-operative system.

**Pioneer Journal  
of Mathematics  
and Mathematical  
Sciences**



**Pioneer Scientific  
Publisher**