

Abstract:

The problem of finding the output from input in a mathematical model is called the forward problem. The Inverse Problem is then the task of finding (some of) the input given (some of) the output. During the years I have come into contact with many different Inverse Problems from almost as many different application areas. In this talk I will describe the mathematical formulations of some of them as well as different solution techniques emphasizing the common problem of ill-posedness.