

A Model for Operating Rooms Scheduling

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Abstract : This paper presents a mathematical model in binary variables 0/1 to make the assignment of surgical procedures to the operating rooms in a hospital. The proposed mathematical model is based on the generalized assignment problem, which maximizes the sum of preferences for the use of the operating rooms by doctors, respecting the time available in each room. The corresponding program was written in Visual Basic of Microsoft Excel, and tested to schedule surgeries at St. Lydia Hospital in Ribeirao Preto, Brazil.

Keywords : generalized assignment problem, logistics, optimization, scheduling

Conference Title : ICEORS 2018 : International Conference on Econometrics, Operations Research and Statistics

Conference Location : Zurich, Switzerland

Conference Dates : January 15-16, 2018