

Abstract

The border River can be considered as sources of tension between neighboring countries, the Helmand River forms part of the international borders of Iran and Afghanistan. This is the boundary of many years that has been accepted by the two neighbors, but there are many differences over how Helmand's water division and other rights are to the river. The purpose of this study is to provide a negotiating support model that can be used to reach an agreement on the allocation of border waters between Iran and Afghanistan. The Negotiation Support System (NSS) is a special class of group decision support systems for situations where there are strong differences in legal judgments or value among members of the group. First, we need to discuss the structural issues of the negotiations, which are at the heart of NSS design. These issues include the behavioral characteristics and cognitive perspectives of the negotiators, the communication needs, the determination of the actual interests of the parties, and the creation of options for increasing profits. In this model, the desirable values of each negotiating party were shown in different repetitions, the utility function was based on the AHP model. To do this, we performed the various objectives of the two sides of the negotiation by pairwise comparison with the Expert choice software. To each of these goals, weights are attributed to these weights that show the relative importance of the goals. In each repetition, the parties negotiate a set of options with the purpose of choosing an option as the best option in that repetition, Each option was repeatedly analyzed by the WAS (Water Allocation System) model in the GAMS software, The best option for each repetition was selected based on the NASH balance. We chose the option that maximizes the utility of both sides. The results showed that trading in water or taking regional scenario, the Helmand River, in negotiations could have the maximum profit for the two countries.

Keywords: Borderlands, Afghanistan, Iran, Helmand River, Negotiation Support System



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