Decision Making under Strict Uncertainty: Case Study in Sewer Network Planning

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Abstract: In decision making under strict uncertainty, decision makers have to choose a decision without any information about the states of nature. The classic criteria of Laplace, Wald, Savage, Hurwicz and Starr are introduced and compared in a case study of sewer network planning. Furthermore, results from different criteria are discussed and analyzed. Moreover, this paper discusses the idea that decision making under strict uncertainty (DMUSU) can be viewed as a two-player game and thus be solved by a solution concept in game theory: Nash equilibrium.

Keywords : decision criteria, decision making, sewer network planning, decision making, strict uncertainty

Conference Title: ICCIE 2017: International Conference on Computers and Industrial Engineering

Conference Location: Stockholm, Sweden Conference Dates: July 13-14, 2017