

DSS Software Selection : An Organizational Perspective

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Abstract

Decision supports system (DSS) software package allow managers to build their own applications, or Specific DSS (SDSS), in an efficient manner. As SDSS support the accomplishment of various organizational objectives, the DSS software, which facilitates the development of SDSS, should be evaluated according to the organizational perspectives. Unfortunately, while user needs and technical perspectives are emphasized in DSS selection process, organizational perspectives are often ignored. This paper presents an evaluation process which aligns the evaluation of DSS software with organizational strategies. Various factors which should be considered during the screening process of DSS software are discussed first. Then a selection model is constructed to evaluate candidate DSS software packages using an Analytic Hierarchy Process (AHP) technique, which allows for the evaluation of software in terms of their potential impacts on the attainment of the organizational objectives.

Keywords: Best Population, Multiple Criteria, Asymptotic Optimality, Empirical Bayes Rule.