Choice, sorting and ranking in aerial conflict management

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Abstract: In the Air Traffic control, many decisions must be taken, quickly. Due to the increase of traffic, these decisions are more and more numerous. It is possible to propose some assistance tools to air traffic controllers in order to help them to make decisions. For that purpose we need to understand how the controllers make these decisions. This paper proposes a knowledge acquisition approach composed of three steps: an analysis of the decision-making process, a multiple criteria methodology, and interviews in order to obtain information, and to develop models. The last part of this paper presents the results we expect to obtain with appropriate interviews and analyze.

Keywords: Decision Making Process, Multiple Criteria Methodology, Air Traffic Control, interviews analysis, choice, sorting and ranking problems, decision support tools.