

ADVANCED TRAINING SYSTEMS FOR THERMAL POWER PLANT OPERATORS

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ABSTRACT

Training of operators has become an important problem to be faced by thermal power plants: updating knowledge and skills. An operator must comprehend the physical operation of the process and must be skilled in handling a number of normal and abnormal operating problems and emergencies. We are developing an advanced training system based on ITS for training of thermal power plant operators. An important characteristic of ITS is their ability to react to particular necessities of the students (operators, in our case); and an important trend is to recognize the student's affective state and to react accordingly by expressing the pedagogical responses in an affectively and pedagogical suitable way. Towards this affective behavior, we are developing a mechanism for detecting the affective operator state and for reacting accordingly. In most of cases, the tutor system has to work with incomplete and usually highly uncertain information about operators. To compensate for this lack of information, we are using causal probabilistic network for manage uncertainty. This paper presents the architecture of an advanced training system based in ITS and how causal probabilistic networks are used to implement the ITS. The general aim of our work is to provide operators of complex industrial environments with a suitable training from a pedagogical and affective viewpoint.

1.0. INTRODUCTION

Training of operators is an important problem faced by thermal power plants: updating knowledge and skills. The problem increases when the complexity of the system obstructs the efficiency, reliability and safe operation. The process of learning how to control, maintain and diagnose in a complex industrial environment takes years of practice and training. An operator must comprehend the physical operation of the process and must be skilled in handling a number of abnormal operating problems and emergencies. So the novice and

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Made Publicly Available , **Resources in Education** ,1984 ERDA Energy Research Abstracts United States. Energy Research and Development Administration,1977 *Nuclear Science Abstracts* ,1974 *Monthly Catalog of United States Government Publications* United States. Superintendent of Documents,1991 **Monthly Catalogue, United States Public Documents** ,1984 **Fossil Energy Update** ,1982 **Qualification of Nuclear Power Plant Operations Personnel** International Atomic Energy Agency,1984 *The Indian & Eastern Engineer* ,1976 *Technical Abstract Bulletin* ,
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