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Expert Systems and Their Impact on the Firm: The Effects of PlanPower Use on the Information Processing Capacity of the Financial Collaborative

John J. Sviokla

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Abstract:

Expert Systems (ESS) have the potential to make a competitive difference in industry, academia, and government, yet there is little knowledge of how to manage these complex software tools. New activity in the field is booming, as a result of civilian and government programs that are investing more time and money in ES development. Early initiatives, aided by improvements in computer hardware and software, have successfully created ESS to rival human experts within some narrow problem domains.

The study is guided by the notions of organizational programs as defined by March and Simon [3] and by Galbraith [1,2] to ...

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increased information-processing capacity, the task mutated and the firm began to operate with a higher need for information-processing capacity.

The ES seemed to increase the effectiveness and efficiency of the user firm. The price of the benefits was an increased rigidity in the task. In considering ESS, a manager should be concerned not only with the ES itself, but with the process by which the ES is adapted, and the overall process of creating and using the ES. In addition, the manager needs to consider the effects of the ES on the uncertainty associated with the task and should consciously manage that uncertainty to foster the level of adaptation necessary to keep the ES alive and viable in the organization.

Key Words and Phrases: Expert systems expert systems in financial planning organizational impacts

Additional information

Notes on contributors

John J. Sviokla

JOHN J. SVIOKLA is Assistant Professor of Business Administration at the Harvard Business School. He received his B.A. from Harvard College, and his M.B.A. and D.B.A. from Harvard University. His research focuses on the impacts of computer-based decision aids. More specifically, he has examined the identification, design, implementation, and effects of the use of knowledge-based systems and decision support systems within business organizations. He is also working on an interfunctional research project that examines how information systems influence the coordination of activities across functional boundaries.

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