ABOUT

**John M. Weiner**

Senior Analyst – Center for Study of Scientific Ideas, West Lafayette, Indiana

Research Interests – Algorithmic Approaches in Critical and Creative Thinking.

**William McAfoos**

President, Business Technology, LLC, East Aurora, New York  
Research Interests:  Systematic Approach to Text Mining.

They joined forces to investigate the benefits in knowledge utilization associated with computer-supported procedures in the identification, extraction, organization, and utilization of authors’ ideas.  The resulting idea database was found to be effective in reducing mechanical or clerical tasks while enhancing opportunities to develop and use transparent, quality-controlled procedures leading to effective development of research strategies and descriptions of topics.  The procedures and resources developed are provided for consideration and use by students, investigators and community practitioners.  The capabilities are not offered for commercial applications.  The intent is to accelerate progress in developing new research and in learning issues representing dog-related diseases.

**Welcome Page Description**

The study of dog-related diseases involves the contributions from numerous specific disciplines. As a result, the text mining software must deal with the different writing styles and vocabularies used by these scientists. The idea database contains the findings from approximately 30,000 articles and nearly 3 million ideas. The associated eBook is an exploration of an algorithmic approach to enhance critical and creative thinking. Research is a formalized method of learning that can be significantly assisted by a formal focus on the ideas presented by subject specialists in their scholarly publications. Computer-assisted algorithms transform information processing and knowledge utilization to a focus on higher cognitive functions. This shifts the effort from mechanical/clerical tasks to intellectual ones and does so in less time and with more attention to transparency and quality-control.

**Ebook Chapters**

**Preface**

**Idea Analysis as a Research Tool**

**Advantages of Cooperative Research**

**Creative Critical Thinking**

**Enhancing Peer Review**

**Algorithms and Transparent Critical Thinking**

**Idea Databases**

**1980-1984**

**1985-1989**

**1990-1994**

**1995-1999**

**2000-2004**

**2005-2009**

**2010-2013**