

ACHIEVING CYBER DEFENSE SITUATIONAL AWARENESS: A COGNITIVE TASK ANALYSIS OF INFORMATION ASSURANCE ANALYSTS

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A Cognitive Task Analysis (CTA) was performed to investigate the workflow, decision processes, and cognitive demands of information assurance (IA) analysts responsible for defending against attacks on critical computer networks. We interviewed and observed 41 IA analysts responsible for various aspects of cyber defense in seven organizations within the US Department of Defense (DOD) and industry. Results are presented as workflows of the analytical process and as attribute tables including analyst goals, decisions, required knowledge, and obstacles to successful performance. We discuss how IA analysts progress through three stages of situational awareness and how visual representations are likely to facilitate cyber defense situational awareness.

INTRODUCTION

In response to computer viruses, network intrusions, and denial of service attacks, government agencies and large corporations have established network monitoring centers to detect and defend against security breaches in their critical information infrastructure. The US Department of Defense (DOD), which invests more resources in cyber defense than any vertical industry, refers to its cyber defenders using the terms information assurance (IA), computer network defense (CND), and defensive information operations (DIO) analysts.

These analysts comb through thousands of intrusion detection system (IDS) alarms during a single work shift to find real attacks amidst a preponderance of false alarms. They review massive amounts of packet data to identify suspicious and anomalous activities that were undetected by the IDS. They may also engage in forecasting new threats and predicting the activities of known attackers. They strive to attain and maintain situational awareness (SA) of the networks they defend and the attackers that attempt to gain access.

Our research used a cognitive task analysis (CTA) approach to gain insight into the work processes, cognitive skills, and tools that IA analysts rely on to achieve SA and the cognitive challenges and obstacles that impede SA. This paper highlights some findings of a full report; interested readers may contact the authors for further information.

RELATED WORK

Kilcrease, Kosakowski, Ruefle, and Zajicek (2003) categorized cyber defense activities to assist organizations in setting up and staffing Computer Security Incident Response Teams (CSIRTs). As the term "response" implies, Kilcrease et al. focused on how incident responders coordinate and

analyze incidents that have already been detected. Although neither intrusion detection nor cognitive challenges was their main focus, their report offered a categorization of CSIRT functions that guided our early research.

Alberts, Dorofee, Kilcrease, Ruefle, and Zajicek et al. (2004) extended the work of Kilcrease et al. by documenting workflows considered to be best processes for effective incident management. Their models represent what incident response "should be" and do not necessarily represent the actual experiences of most IA analysts. By comparison, our CTA documented "what is," illuminated the cognitive processes that underlie the work processes, and identified opportunities to improve SA.

Biros and Eppich (2004) studied rapid intrusion detection analysts in the US Air Force, using CTA, and identified five requisite cognitive abilities: recognizing non-local Internet Protocol (IP) addresses, identifying source IP addresses, developing a mental model of normal, and sharing knowledge. We used their work as a starting point for an analysis of additional roles beyond rapid intrusion detection and beyond the Air Force.

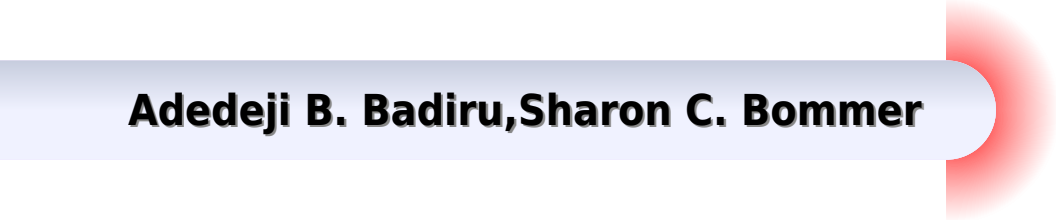
METHOD

Participants

We interviewed and observed 41 analysts from one commercial and six DOD organizations responsible for network security. Participants varied in level of expertise from novice to expert and represented a variety of IA roles including all of the analysis roles described below.

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Adedeji B. Badiru, Sharon C. Bommer



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Neurotechnology in National Security and Defense James Giordano, 2014-09-25 Neurotechnology in National Security and Defense Practical Considerations Neuroethical Concerns is the second volume in the Advances in Neurotechnology series It specifically addresses the neuroethical legal and social issues arising from the use of neurotechnology in national security and defense agendas and applications Of particular concern are the use of various neurotechnologies in military and intelligence operations training acquisition of neurobiological and cognitive data for intelligence and security military medical operations warfighter performance augmentation and weaponization of neuroscience and neurotechnology The contributors discuss the neuroethical questions and problems that these applications generate as well as potential solutions that may be required and developed The book examines how developments in neurotechnology in national security and defense agendas are impacted by and affect ethical values and constructs legal considerations and overall conduct of the social sphere Presenting an integrative perspective leading international experts lay the scientific groundwork and establish the premises necessary to appreciate the ethical aspects of neurotechnology in national security and defense It is not a question of if neurotechnology will be used in such ways but when how and to what extent Therefore it is imperative to foster a deeper understanding of neurotechnology the problems and debates arising from its use in national security and defense and how such issues can and should be addressed In doing so we can guide and govern the use of these innovative neurotechnologies in ways that uphold ethical accountability

The Handbook of Task Analysis for Human-Computer Interaction Dan Diaper, Neville Stanton, 2003-09-01 A comprehensive review of the current state of research and use of task analysis for Human Computer Interaction HCI this multi authored and diligently edited handbook offers the best reference source available on this diverse subject whose foundations date to the turn of the last century Each chapter begins with an abstract and is cross referenced

Scientific and Technical Aerospace Reports, 1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Research Product - U.S. Army Research Institute for the Behavioral and Social Sciences, 1999

A Review and Annotated Bibliography of the Literature Pertaining to Team and Small Group Performance (1989 to 1999) Andrew S. LaJoie, 1999 The military along with private industry is relying more on small teams of specialized individuals who work together to achieve a common goal Examples of these teams include emergency medical teams aircrews decision making teams industrial project teams Special Forces teams weapon system crews and everyday work teams Training and military doctrine has been evolving to reflect this emphasis on teamwork The purpose of this annotated bibliography is to review literature published over the last ten years concerning team and small group performance Specifically the articles reviewed in this report represent a sampling of the research published in the social sciences including psychology sociology and business The team and small group literature reviewed

includes examples of the many types of teams mentioned earlier A summary and integration of this work is provided In general the research suggests that there are several components which contribute to the successful performance of teams and that some of these components can be explicitly trained Several training models are discussed Stinet

Applied Concept Mapping Brian Moon,Robert R. Hoffman,Joseph Novak,Alberto Canas,2011-04-11 The expanding application of Concept Mapping includes its role in knowledge elicitation institutional memory preservation and ideation With the advent of the CmapTools knowledge modeling software kit Concept Mapping is being applied with increased frequency and success to address a variety of problems in the workplace Supported by business application case studies Applied Concept Mapping Capturing Analyzing and Organizing Knowledge offers an accessible introduction to the theory methods and application of Concept Mapping in business and government The case studies illustrate applications across a range of industries including engineering product development defense and healthcare The authors provide access to a free download of CmapTools courtesy of the Institute for Human and Machine Cognition to enable readers to create and share their own Concept Maps Offering examples from the United States Canada Australia Spain Brazil Scotland and The Netherlands they highlight a global perspective of this dynamic tool The text is organized into three sections Practitioners Views supplies narratives guidance and reviews of applications from career Concept Mappers Recent Case Studies and Results presents in depth examinations of specific applications and their results Pushing the Boundaries explores what s possible and where the boundary conditions lie Applied Concept Mapping facilitates the fundamental understanding needed to harness the power of Concept Mapping to develop viable solutions to a virtually unlimited number of real world problems

Expertise Out of Context Robert R. Hoffman,2007-05-22 Researchers have revealed that real expertise while applied to well defined tasks with highly circumscribed contexts often stretches beyond its routine boundaries For example a medical doctor may be called upon to diagnose a rare disease or perform emergency surgery outside his or her area of specialization because other experts are not availab

Work Design Adedeji B. Badiru,Sharon C. Bommer,2017-07-12 Work is all around us and permeates everything we do and everyday activities Not all work is justified not all work is properly designed or evaluated accurately or integrated A systems model will make work more achievable through better management Work is defined as a process of performing a defined task or activity such as research development operations maintenance repair assembly production and so on Very little is written on how to design evaluate justify and integrate work Using a comprehensive systems approach this book facilitates a better understanding of work for the purpose of making it more effective and rewarding

Handbook of Human Systems Integration Harold R. Booyer,2003-07-07 A groundbreaking look at how technology with a human touch is revolutionizing government and industry Human Systems Integration HSI is very attractive as a new integrating discipline designed to help move business and engineering cultures toward a more people technology orientation Over the past decade the United States and foreign governments have developed a wide range of tools techniques and technologies aimed at

integrating human factors into engineering systems in order to achieve important cost and performance benefits that otherwise would not have been accomplished. In order for this new discipline to be effective, however, a cultural change is needed that must start with organizational leadership. Handbook of Human Systems Integration outlines the principles and methods that can be used to help integrate people, technology, and organizations with a common objective toward designing, developing, and operating systems effectively and efficiently. Handbook of Human Systems Integration is broad in scope, covering both public and commercial processes as they interface with systems engineering processes. Emphasizing the importance of management and organization concepts as well as the technical uniqueness of HSI, Handbook of Human Systems Integration features more than ninety contributors, technical advisors, and reviewers from government, industry, and academia. Comprehensive coverage of the most recent HSI developments, particularly in presenting the cutting edge tools, techniques, and methodologies utilized by each of the HSI domains. Chapters representing the governments and industries of the United Kingdom and Canada. Contributions from three services of the Department of Defense along with the Federal Aviation Administration and the National Academy of Sciences. Many chapters covering both military and nonmilitary applications. Concepts widely used by government contractors both in the United States and abroad. This book will be of special interest to HSI practitioners, systems engineers, and managers as well as government and industry decision makers who must weigh the recommendations of all multidisciplines contributing to systems performance, safety, and costs in order to make sound systems acquisition decisions.

Systems Engineering Dahai Liu, 2018-10-08. For the past several decades, systems engineering has grown rapidly in its scope and application and shown significant benefits for the design of large, complex systems. However, current systems engineering textbooks are either too technical or at a high conceptual level. Written by an expert with more than ten years of teaching experience, *Systems Engineering: Design Principles and Models* not only gives students exposure to the concepts of systems and systems engineering but also provides enough technical expertise for them to immediately use and apply what they learn. The book covers systems and systems engineering systems, methods, models, and analytical techniques as well as systems management and control methods. It discusses systems concepts, emphasizing system life cycle, and includes coverage of systems design processes and the major activities involved. It offers hands-on exercises after each chapter, giving students a solid understanding of system requirements and uses a software package, CORE, to introduce the requirement management process. Designed for readers with a wide range of backgrounds, the book enables students to learn about systems and systems engineering and more specifically to be able to use and apply the models and methods in the systems engineering field. The author has integrated feedback from students with materials used in teaching for many years, making the book especially approachable to non-engineering students with no prior exposure to this subject. Engineering students, on the other hand, will also benefit from the clear, concise coverage this book provides as well as the relevant analysis models and techniques.

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Resources ,1993 Directory of Federal Laboratory and Technology Resources ,1994 Describes the individual capabilities of each of 1 900 unique resources in the federal laboratory system and provides the name and phone number of each contact Includes government laboratories research centers testing facilities and special technology information centers Also includes a list of all federal laboratory technology transfer offices Organized into 72 subject areas Detailed indices **Management, a Bibliography for NASA Managers** ,1989 NASA SP-7500 United States. National Aeronautics and Space Administration, **Elements of Applied Psychology** Peter Spurgeon,Roy Davies,Anthony Chapman,2015-12-22 Originally published in 1994 Elements of Applied Psychology provided an introductory survey of the major aspects of applied psychology at the time for students of psychology as a main or ancillary subject It was the first text to investigate the pressures created by this increased interest in applied psychology offering insight into the factors which had influenced its patterns and direction The book comprises 18 chapters covering both the well established fields of professional psychology such as educational clinical counselling and occupational organisational psychology and areas of developing application at the time including applied cognitive psychology economic and health psychology and psychology and law The text will still be of value to students considering possible career areas in psychology students on psychology courses pondering choice of specialism and those students taking psychology as a subsidiary subject in one of the areas covered It is also consistent with the increasing link between the academic community and practitioners It will serve to increase the understanding and exchange *Technical Reports Awareness Circular : TRAC.* ,1987-08 **Management** ,1990 **AFHRL Newsletter** ,1986 **Accelerated Expertise** Robert R. Hoffman,Paul Ward,Paul J. Feltovich,Lia DiBello,Stephen M. Fiore,Dee H. Andrews,2013-08-15 Speed in acquiring the knowledge and skills to perform tasks is crucial Yet it still ordinarily takes many years to achieve high proficiency in countless jobs and professions in government business industry and throughout the private sector There would be great advantages if regimens of training could be established that could accelerate the achievement of high levels of proficiency This book discusses the construct of accelerated learning It includes a review of the research literature on learning acquisition and retention focus on establishing what works and why This includes several demonstrations of accelerated learning with specific ideas plans and roadmaps for doing so The impetus for the book was a tasking from the Defense Science and Technology Advisory Group which is the top level Science and Technology policy making panel in the Department of Defense However the book uses both military and non military exemplar case studies It is likely that methods for acceleration will leverage technologies and capabilities including virtual training cross training training across strategic and tactical levels and training for resilience and adaptivity This volume provides a wealth of information and guidance for those interested in the concept or phenomenon of accelerating learning in education training psychology academia in general government military or industry *Women in Neuroscience* Marie-Ève Tremblay,Corette J. Wierenga,Elizabeth B. Torres,Liana Fattore,Arianna Maffei,Michela Chiappalone,2022-11-04

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