Robinson E. Pino
Alexander Kott
Michael Shevenell *Editors*

Cybersecurity Systems for Human Cognition Augmentation

Cybersecurity Systems For Human Cognition Augmentation Advances In Information Security

Vladlena Benson,John McAlaney

Cybersecurity Systems For Human Cognition Augmentation Advances In Information Security:

Cybersecurity Systems for Human Cognition Augmentation Robinson E. Pino,Alexander Kott,Michael Shevenell,2014-10-18 This book explores cybersecurity research and development efforts including ideas that deal with the growing challenge of how computing engineering can merge with neuroscience The contributing authors who are renowned leaders in this field thoroughly examine new technologies that will automate security procedures and perform autonomous functions with decision making capabilities To maximize reader insight into the range of professions dealing with increased cybersecurity issues this book presents work performed by government industry and academic research institutions working at the frontier of cybersecurity and network sciences Cybersecurity Systems for Human Cognition Augmentation is designed as a reference for practitioners or government employees working in cybersecurity Advanced level students or researchers focused on computer engineering or neuroscience will also find this book a useful resource   Theory and Models for Cyber Situation Awareness Peng Liu,Sushil Jajodia,Cliff Wang,2017-07-05 Today when a security incident happens the top three questions a cyber operation center would ask are What has happened Why did it happen What should I do Answers to the first two questions form the core of Cyber Situation Awareness SA Whether the last question can be satisfactorily addressed is largely dependent upon the cyber situation awareness capability of an enterprise The goal of this book is to present a summary of recent research advances in the development of highly desirable Cyber Situation Awareness capabilities The 8 invited full papers presented in this volume are organized around the following topics computer aided human centric cyber situation awareness computer and information science aspects of the recent advances in cyber situation awareness learning and decision making aspects of the recent advances in cyber situation awareness cognitive science aspects of the recent advances in cyber situation awareness   **Availability, Reliability and Security** Bart Coppens,Bruno Volckaert,Vincent Naessens,Bjorn De Sutter,2025-09-09 This four volume set LNCS 15994 15997 constitutes the proceedings of the ARES 2025 International Workshops on Availability Reliability and Security held under the umbrella of the 20th International conference on Availability Reliability and Security ARES 2025 which took place in Ghent Belgium during August 11 14 2025 The 79 full papers presented in this book were carefully reviewed and selected from 173 submissions They contain papers of the following workshops Part I First International Workshop on Artificial Intelligence Cyber and Cyber Physical Security AI 8th International Symposium for Industrial Control System and SCADA Cyber Security Research ICS CSR 2025 First Workshop on Sustainable Security and Awareness For nExt Generation InfRastructures SAFER 2025 4th Workshop on Cybersecurity in Industry 4 0 SecIndustry 2025 Part II 6th Workshop on Recent Advances in Cyber Situational Awareness and Data Centric Approaches CSA 2025 First International Workshop on Responsible Data Governance Privacy and Digital Transformation RDGPT 2025 22nd International Workshop on Trust Privacy and Security in the Digital Society TrustBus 2025 Part III 18th International Workshop on Digital Forensics WSDF 2025 14th International Workshop on Cyber Crime IWCC 2025 9th

International Workshop on Cyber Use of Information Hiding CUING 2025 Part IV First International Workshop on Cybersecurity and Privacy Risk Assessments CPRA 2025 Second International Workshop on Emerging Digital Identities EDId 2025 Second International Workshop on Security and Privacy Enhancing Technologies for Multimodal Data SPETViD 2025 6th International Workshop on Graph based Approaches for CyberSecurity GRASEC 2025 5th International Workshop on Behavioral Authentication for System Security BASS 2025 **AI 2019: Advances in Artificial Intelligence** Jixue Liu,James Bailey,2019-11-25 This book constitutes the proceedings of the 32nd Australasian Joint Conference on Artificial Intelligence AI 2019 held in Adelaide SA Australia in December 2019 The 48 full papers presented in this volume were carefully reviewed and selected from 115 submissions The paper were organized in topical sections named game and multiagent systems knowledge acquisition representation reasoning machine learning and applications natural language processing and text analytics optimization and evolutionary computing and image processing Augmenting Retail Reality, Part B Balraj Verma,Amit Mittal,Murali Raman,Birud Sindhav,2024-12-09 In the ever evolving realm of retail commerce the confluence of groundbreaking technologies is not merely a trend but a transformative force reshaping the industry s very foundations This work delves into this dynamic landscape offering an insightful exploration of how cutting edge innovations are revolutionizing the retail experience *ARTIFICIAL BRAIN AND SIMULATION* S. R. Jena,P. Yamini Sahukar,Dr. Sohit Agarwal,2025-06-28 The human brain remains the most explosive enigmatic and powerful computing system ever known Its unmatched ability to learn adapt reason and generate creativity continues to inspire scientists engineers and philosophers across generations With the rise of Artificial Intelligence AI Neuroscience and Neuromorphic Engineering the question once relegated to the realm of science fiction Can we build an artificial brain is now a legitimate and actively explored scientific frontier This book Artificial Brain and Simulation is an earnest attempt to synthesize the diverse yet interrelated domains of cognitive science machine learning brain simulation neuromorphic computing and robotics into a cohesive academic framework This work is not merely a speculative exploration of artificial cognition Rather it is grounded in current scientific developments technological breakthroughs and practical systems already demonstrating nascent forms of synthetic intelligence From IBM Watson s symbolic reasoning to the digital neurons firing inside Intel s Loihi neuromorphic chip from brain computer interfaces used in prosthetics to AI driven diagnosis of neurological disorders the world is witnessing an unprecedented convergence of human cognition and machine computation This convergence is shaping what we refer to as Artificial Brain Simulation Why This Book The goal of this book is to serve as a comprehensive guide and reference text for students researchers academicians technologists and policy makers It captures the evolving narrative of brain inspired computing simulative cognition and intelligent neural interfaces Despite the proliferation of literature on AI and neuroscience individually there exists a noticeable void where both disciplines intersect with engineering design particularly in the design and simulation of artificial brains This book addresses that void It dives deep into the biological fundamentals of

the human brain while simultaneously translating those concepts into machine executable systems neural network models and cognitive architectures It traces the history evaluates the present and speculates on the future of artificially simulating human thought perception memory decision making emotion and even consciousness Target Audience This book is written with multiple tiers of readers in mind Undergraduate and graduate students studying computer science neuroscience AI robotics cognitive science or biomedical engineering Researchers and Ph D candidates seeking deep insights into brain inspired AI computational neuroscience and machine consciousness Faculty and educators looking for a structured reference to design multidisciplinary courses involving AI and biological cognition Industry professionals and startups working on neural interfaces robotics AR VR BCI IoT and intelligent automation Futurists and philosophers of technology interested in the ethical social and psychological dimensions of synthetic minds Book Structure and Flow The book is divided into 14 meticulously crafted chapters each building upon the foundation laid by its predecessors Chapter 1 Introduction To Artificial Brain This chapter defines what constitutes an artificial brain outlines the motivation behind its development and distinguishes it from general purpose AI It provides historical insights and visual representations comparing human brains with machine based intelligence Chapter 2 Neuroscience Overview To simulate the brain one must first understand it This chapter explains the structure components and processes of the human brain including neurons synapses learning memory and cognition all explained in computational terms Chapter 3 Foundations of Artificial Intelligence This chapter transitions to core AI principles introducing learning paradigms supervised unsupervised reinforcement deep learning neural networks and cognitive architectures like ACT R and SOAR Chapter 4 Neuromorphic Computing Neuromorphic systems mimic the behavior of neurons in silicon This chapter details spiking neural networks memristors neuromorphic chips like Loihi and TrueNorth and the integration of hardware with software Chapter 5 Brain Inspired Algorithms Here we discuss Hebbian learning reinforcement learning loops bio inspired optimization methods GA PSO ACO BFO and deep cognitive networks as scalable learning systems Chapter 6 Brain Simulation Projects This chapter dives into real world simulations like the Blue Brain Project the Human Brain Project HBP OpenWorm and Nengo highlighting architectural details and outcomes Chapter 7 Architecture of Artificial Brain Covering layer wise simulation of perception cognition decision making and motor control this chapter also introduces architectural block diagrams of artificial brains in modular format Chapter 8 Cognitive Computing and Reasoning Explores AI capabilities in symbolic reasoning language understanding planning perception and the philosophical notion of self awareness in synthetic systems Chapter 9 Memory and Learning Systems It delves into memory models short term vs long term neural memory frameworks lifelong learning and transfer learning Visual diagrams illustrate how memory evolves in artificial systems Chapter 10 AI in Healthcare and Brain Computer Interfaces BCIs The intersection of AI and neuroscience is most visible in neural prosthetics AI for neurological disorders and BCI based medical interventions This chapter includes real time BCI system design Chapter 11 Robotics and Autonomous Systems This chapter introduces

cognitive robots emotion enabled machines artificial empathy and humanoid assistants that simulate real social interaction and decision making Chapter 12 Smart Systems and Embedded AI Explores deployment of cognitive systems in mobile chips IoT platforms smart surveillance and AR VR environments It underscores the importance of real time low power neural architectures Chapter 13 Ethical Philosophical Issues and Technological Challenges As artificial brains grow closer to consciousness this chapter discusses machine rights existential risks interpretability and the control mechanisms necessary to safeguard humanity A speculative yet evidence based chapter exploring machine consciousness AI human symbiosis and the implications of uploading human minds into machines mind uploading Chapter 14 The Future of Artificial Brain A forward looking chapter forecasting technological cognitive societal and regulatory trends shaping the future of artificial brain systems Unique Features of the Book Interdisciplinary Approach Merges neuroscience AI robotics cognitive science ethics and embedded computing Detailed Diagrams Over 100 hand drawn and digitally illustrated diagrams explain complex systems in accessible formats Comparison Tables Comparative evaluations of architectures e g ACT R vs SOAR chip designs Loihi vs TrueNorth and learning models Recent Research Citations Each chapter ends with a list of 30 IEEE style references covering the most recent developments Case Studies Applications Includes Neuralink BrainGate OpenWorm HBP and real world BCI enabled prosthetics Ethical Philosophical Lens Goes beyond technology to address societal impact machine rights and AI regulation The journey toward building an artificial brain is not merely technological it is deeply philosophical neuropsychological and even spiritual The idea that machines could one day think feel or possess some form of synthetic awareness requires us to redefine intelligence personhood and even life itself This book encourages readers to question conventional boundaries and embrace a future that may include minds made of code thoughts running through silicon and humanity coexisting with a new cognitive species We believe Artificial Brain and Simulation will serve as a bridge connecting the brilliance of natural intelligence with the promise of artificial cognition Whether you are a student researcher or simply a curious mind we invite you to embark on this voyage where biology meets computation neurons inspire algorithms and thought itself is reimagined We thank you for picking up this book and we hope it will both inform and inspire you to shape the intelligent systems of tomorrow   **Artificial Intelligence for Smart Manufacturing** Kim Phuc Tran,2023-06-01 This book provides readers with a comprehensive overview of the latest developments in the field of smart manufacturing exploring theoretical research technological advancements and practical applications of AI approaches With Industry 4 0 paving the way for intelligent systems and innovative technologies to enhance productivity and quality the transition to Industry 5 0 has introduced a new concept known as augmented intelligence AuI combining artificial intelligence AI with human intelligence HI As the demand for smart manufacturing continues to grow this book serves as a valuable resource for professionals and practitioners looking to stay up to date with the latest advancements in Industry 5 0 Covering a range of important topics such as product design predictive maintenance quality control digital twin wearable technology quantum

and machine learning the book also features insightful case studies that demonstrate the practical application of these tools in real world scenarios Overall this book provides a comprehensive and up to date account of the latest advancements in smart manufacturing offering readers a valuable resource for navigating the challenges and opportunities presented by Industry 5 0   Cognition, Behavior and Cybersecurity Paul Watters,Dr Nalin Asanka Gamagedara Arachchilage,David Maimon,Richard Keith Wortley,2021-10-29   *Cyber Influence and Cognitive Threats* Vladlena Benson,John McAlaney,2019-09-27 In the wake of fresh allegations that personal data of Facebook users have been illegally used to influence the outcome of the US general election and the Brexit vote the debate over manipulation of social Big Data continues to gain more momentum Cyber Influence and Cognitive Threats addresses various emerging challenges in response to cybersecurity examining cognitive applications in decision making behaviour and basic human interaction The book examines the role of psychology in cybersecurity by addressing each factor involved in the process hackers targets cybersecurity practitioners and the wider social context in which these groups operate Cyber Influence and Cognitive Threats covers a variety of topics including information systems psychology sociology human resources leadership strategy innovation law finance and others Explains psychological factors inherent in machine learning and artificial intelligence Explores attitudes towards data and privacy through the phenomena of digital hoarding and protection motivation theory Discusses the role of social and communal factors in cybersecurity behaviour and attitudes Investigates the factors that determine the spread and impact of information and disinformation   *Cognitive Security* Linan Huang,Quanyan Zhu,2023-06-02 This book presents the latest research in cognitive security a rapidly emerging field that addresses the vulnerabilities in human behavior and cognition that can lead to Cyber Physical Systems CPS compromise This book demonstrates that as adversaries increasingly use manipulative and deceptive information to disrupt human cognitive processes including sensation attention memory and mental operations humans are misled into fallacious reasoning and manipulated decisions that can lead to system level meltdown Cognitive security aims to protect humans from the exploitation of cognitive vulnerabilities help them make informed decisions that are free from manipulation and undue influence and mitigate the aggravating risk in the ensuing steps of the attacker s kill chain This book offers solutions that work across different fields such as psychology neuroscience data science social science and game theory to deal with cognitive threats It guides the reader through the core ideas with figures real life examples and case studies Moreover it formally defines all research questions presents the results using mathematical theorems and proofs and obtains insights through numerical validation This book provides a self contained and brief overview of essential system scientific tools for modeling analyzing and mitigating cognitive vulnerabilities The concepts of human cognitive capacities and cognitive vulnerabilities are formally discussed followed by two case studies in the scenarios of reactive and proactive attention vulnerabilities This book provides insights and applications on this transdisciplinary topic with the goal of motivating future

research in this emerging area and pushing the frontier of human technology convergence This book is a valuable reference for researchers and advanced level students studying or working in cognitive security and related fields It is also useful for decision makers managers and professionals working within these related fields *Advances in Human Factors in Cybersecurity* Denise Nicholson,2017-06-13 This book reports on the latest research and developments in the field of cybersecurity placing special emphasis on personal security and new methods for reducing human error and increasing cyber awareness as well as innovative solutions for increasing the security of advanced Information Technology IT infrastructures It covers a broad range of topics including methods for human training novel Cyber Physical and Process Control Systems social economic and behavioral aspects of cyberspace issues concerning the cybersecurity index security metrics for enterprises risk evaluation and many others Based on the AHFE 2017 International Conference on Human Factors in Cybersecurity held on July 17 21 2017 in Los Angeles California USA the book not only presents innovative cybersecurity technologies but also discusses emerging threats current gaps in the available systems and future challenges that may be successfully overcome with the help of human factors research **Artificial Intelligence and Cybersecurity** Ishaani Priyadarshini,Rohit Sharma,2022-02-03 Artificial intelligence and cybersecurity are two emerging fields that have made phenomenal contributions toward technological advancement As cyber attacks increase there is a need to identify threats and thwart attacks This book incorporates recent developments that artificial intelligence brings to the cybersecurity world Artificial Intelligence and Cybersecurity Advances and Innovations provides advanced system implementation for Smart Cities using artificial intelligence It addresses the complete functional framework workflow and explores basic and high level concepts The book is based on the latest technologies covering major challenges issues and advances and discusses intelligent data management and automated systems This edited book provides a premier interdisciplinary platform for researchers practitioners and educators It presents and discusses the most recent innovations trends and concerns as well as practical challenges and solutions adopted in the fields of artificial intelligence and cybersecurity **Advances in Human Factors in Cybersecurity** Denise Nicholson,2016-08-16 This book reports on the latest research and developments in the field of cybersecurity giving a special emphasis on personal security and new methods for reducing human error and increasing cyber awareness and innovative solutions for increasing the security of advanced Information Technology IT infrastructures It covers a wealth of topics including methods for human training novel Cyber Physical and Process Control Systems social economic and behavioral aspects of the cyberspace issues concerning the cyber security index security metrics for enterprises risk evaluation and many others Based on the AHFE 2016 International Conference on Human Factors in Cybersecurity held on July 27 31 2016 in Walt Disney World Florida USA this book not only presents innovative cybersecurity technologies but also discusses emerging threats current gaps in the available systems and future challenges that may be coped with through the help of human factors research **Machine Learning and Cognitive Science**

Applications in Cyber Security Khan, Muhammad Salman,2019-05-15 In the past few years with the evolution of advanced persistent threats and mutation techniques sensitive and damaging information from a variety of sources have been exposed to possible corruption and hacking Machine learning artificial intelligence predictive analytics and similar disciplines of cognitive science applications have been found to have significant applications in the domain of cyber security Machine Learning and Cognitive Science Applications in Cyber Security examines different applications of cognition that can be used to detect threats and analyze data to capture malware Highlighting such topics as anomaly detection intelligent platforms and triangle scheme this publication is designed for IT specialists computer engineers researchers academicians and industry professionals interested in the impact of machine learning in cyber security and the methodologies that can help improve the performance and reliability of machine learning applications   **Advancements in Cybersecurity** Agbotiname Lucky Imoize,Oleksandr Kuznetsov,Oleksandr Lemeshko,Oleksandra Yeremenko,2025-06-26 This book offers a comprehensive exploration of cutting edge research and developments in the field of cybersecurity It presents a curated collection of chapters that reflect the latest in empirical data approximation malware recognition information security technologies and beyond Advancements in Cybersecurity Next Generation Systems and Applications offers readers a broad perspective on the multifaceted challenges and solutions in contemporary cybersecurity through topics ranging from the application of blockchain technology in securing information systems to the development of new cost functions for the iterative generation of cryptographic components The book not only addresses technical aspects but also provides insights into the theoretical frameworks and practical applications that underpin the development of robust cybersecurity systems It explores the optimization of algorithms for generating nonlinear substitutions the application of machine learning models for security evaluation and the implementation of deep learning techniques for detecting sophisticated cyber attacks Through its in depth analysis and forward looking perspectives this book contributes significantly to advancing cybersecurity research and practice paving the way for a safer digital future This book is designed to serve as an essential resource for researchers practitioners policymakers and engineers in the fields of ICT next generation computing and IT security including cryptography AI ML DL cyber resilience network security threat modeling and risk assessment digital forensics secure software development hardware security and human centric security   Advances in Human Factors in Cybersecurity Tareq Z. Ahram,Denise Nicholson,2018-06-23 This book reports on the latest research and developments in the field of cybersecurity particularly focusing on personal security and new methods for reducing human error and increasing cyber awareness as well as innovative solutions for increasing the security of advanced Information Technology IT infrastructures It covers a broad range of topics including methods for human training novel cyber physical and process control systems social economic and behavioral aspects of cyberspace issues concerning the cybersecurity index security metrics for enterprises and risk evaluation Based on the AHFE 2018 International Conference on Human Factors in Cybersecurity held

on July 21 25 2018 in Orlando Florida USA the book not only presents innovative cybersecurity technologies but also discusses emerging threats current gaps in the available systems and future challenges that can be successfully overcome with the help of human factors research **Effective Strategies for Combatting Social Engineering in Cybersecurity** Kumar, Rajeev,Srivastava, Saurabh,Elngar, Ahmed A.,2024-12-17 In the digital age the convergence of advanced technologies and human behavior presents a complex cybersecurity challenge particularly through the lens of social engineering Social engineering attacks exploit psychological manipulation rather than relying solely on technical vulnerabilities By leveraging human trust and deception these attacks become particularly difficult to defend against evolving alongside advancements in artificial intelligence machine learning and other technologies This dynamic environment heightens the risk of cyber threats underscoring the need for comprehensive and innovative strategies to address these emerging vulnerabilities Effective Strategies for Combatting Social Engineering in Cybersecurity offers a thorough exploration of these challenges providing a well rounded approach to understanding and countering social engineering threats It delves into the theoretical aspects of social engineering including the psychological principles that drive these attacks while also offering practical solutions through real world case studies and applications By bridging the gap between theory and practice the book equips academics practitioners and policymakers with actionable strategies to enhance their defenses Psychosocial Dynamics of Cyber Security Stephen J Zaccaro,Reeshad S. Dalal,Lois E. Tetrick,Julie A. Steinke,2016-09-19 This new volume edited by industrial and organizational psychologists will look at the important topic of cyber security work in the US and around the world With contributions from experts in the fields of industrial and organizational psychology human factors computer science economics and applied anthropology the book takes the position that employees in cyber security professions must maintain attention over long periods of time must make decisions with imperfect information with the potential to exceed their cognitive capacity may often need to contend with stress and fatigue and must frequently interact with others in team settings and multiteam systems Consequently psychosocial dynamics become a critical driver of cyber security effectiveness Chapters in the book reflect a multilevel perspective individuals teams multiteam systems and describe cognitive affective and behavioral inputs processes and outcomes that operate at each level The book chapters also include contributions from both research scientists and cyber security policy makers professionals to promote a strong scientist practitioner dynamic The intent of the book editors is to inform both theory and practice regarding the psychosocial dynamics of cyber security work Adaptive Autonomous Secure Cyber Systems Sushil Jajodia,George Cybenko,V.S. Subrahmanian,Vipin Swarup,Cliff Wang,Michael Wellman,2020-02-04 This book explores fundamental scientific problems essential for autonomous cyber defense Specific areas include Game and control theory based moving target defenses MTDs and adaptive cyber defenses ACDs for fully autonomous cyber operations The extent to which autonomous cyber systems can be designed and operated in a framework that is significantly different from the human based systems we

now operate On line learning algorithms including deep recurrent networks and reinforcement learning for the kinds of situation awareness and decisions that autonomous cyber systems will require Human understanding and control of highly distributed autonomous cyber defenses Quantitative performance metrics for the above so that autonomous cyber defensive agents can reason about the situation and appropriate responses as well as allowing humans to assess and improve the autonomous system This book establishes scientific foundations for adaptive autonomous cyber systems and ultimately brings about a more secure and reliable Internet The recent advances in adaptive cyber defense ACD have developed a range of new ACD techniques and methodologies for reasoning in an adaptive environment Autonomy in physical and cyber systems promises to revolutionize cyber operations The ability of autonomous systems to execute at scales scopes and tempos exceeding those of humans and human controlled systems will introduce entirely new types of cyber defense strategies and tactics especially in highly contested physical and cyber environments The development and automation of cyber strategies that are responsive to autonomous adversaries pose basic new technical challenges for cyber security This book targets cyber security professionals and researchers industry governments and military Advanced level students in computer science and information systems will also find this book useful as a secondary textbook **Advances in Human Factors in Cybersecurity** Tareq Ahram,Waldemar Karwowski,2019-06-05 This book reports on the latest research and developments in the field of cybersecurity particularly focusing on personal security and new methods for reducing human error and increasing cyber awareness as well as innovative solutions for increasing the security of advanced Information Technology IT infrastructures It covers a broad range of topics including methods for human training novel cyber physical and process control systems social economic and behavioral aspects of cyberspace issues concerning the cybersecurity index security metrics for enterprises and risk evaluation Based on the AHFE 2019 International Conference on Human Factors in Cybersecurity held on July 24 28 2019 in Washington D C USA the book not only presents innovative cybersecurity technologies but also discusses emerging threats current gaps in the available systems and future challenges that may be successfully overcome with the help of human factors research

Unveiling the Magic of Words: A Report on "**Cybersecurity Systems For Human Cognition Augmentation Advances In Information Security**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Cybersecurity Systems For Human Cognition Augmentation Advances In Information Security**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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can minimize tax payment by claiming zakat paid as a tax rebate which is deducted from the amount of total income tax although zakat rebate has been applied in the tax system more than 20 years there is lacking research on its

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