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Paolo Mori,Steven Furnell,Olivier Camp

Malware Analysis Using Artificial Intelligence and Deep Learning Mark Stamp, Mamoun Alazab, Andrii Shalaginov, 2020-12-20 This book is focused on the use of deep learning (DL) and artificial intelligence (AI) as tools to advance the fields of malware detection and analysis. The individual chapters of the book deal with a wide variety of state-of-the-art AI and DL techniques, which are applied to a number of challenging malware-related problems. DL and AI based approaches to malware detection and analysis are largely data driven and hence minimal expert domain knowledge of malware is needed. This book fills a gap between the emerging fields of DL/AI and malware analysis. It covers a broad range of modern and practical DL and AI techniques, including frameworks and development tools enabling the audience to innovate with cutting-edge research advancements in a multitude of malware (and closely related) use cases.

Ensemble Methods Zhi-Hua Zhou, 2012-06-06 An up-to-date, self-contained introduction to a state-of-the-art machine learning approach, Ensemble Methods: Foundations and Algorithms shows how these accurate methods are used in real-world tasks. It gives you the necessary groundwork to carry out further research in this evolving field. After presenting background and terminology, the book covers the main algorithms and theories, including Boosting, Bagging, Random Forest, averaging and voting schemes, the Stacking method, mixture of experts, and diversity measures. It also discusses multiclass extension, noise tolerance, error-ambiguity and bias-variance decompositions, and recent progress in information theoretic diversity. Moving on to more advanced topics, the author explains how to achieve better performance through ensemble pruning and how to generate better clustering results by combining multiple clusterings. In addition, he describes developments of ensemble methods in semi-supervised learning, active learning, cost-sensitive learning, class-imbalance learning, and comprehensibility enhancement.

Introduction to Machine Learning with Applications in Information Security Mark Stamp, 2022-09-27 Introduction to Machine Learning with Applications in Information Security, Second Edition provides a classroom-tested introduction to a wide variety of machine learning and deep learning algorithms and techniques, reinforced via realistic applications. The book is accessible and doesn't prove theorems, or dwell on mathematical theory. The goal is to present topics at an intuitive level, with just enough detail to clarify the underlying concepts. The book covers core classic machine learning topics in depth, including Hidden Markov Models (HMM), Support Vector Machines (SVM), and clustering. Additional machine learning topics include k-Nearest Neighbor (k-NN), boosting, Random Forests, and Linear Discriminant Analysis (LDA). The fundamental deep learning topics of backpropagation, Convolutional Neural Networks (CNN), Multilayer Perceptrons (MLP), and Recurrent Neural Networks (RNN) are covered in depth. A broad range of advanced deep learning architectures are also presented, including Long Short-Term Memory (LSTM), Generative Adversarial Networks (GAN), Extreme Learning Machines (ELM), Residual Networks (ResNet), Deep Belief Networks (DBN), Bidirectional Encoder Representations from Transformers (BERT), and Word2Vec. Finally, several cutting-edge deep learning topics are discussed, including dropout regularization, attention, explainability, and adversarial attacks. Most of the examples in the book are drawn from the field of information security, with many of the machine learning and deep learning applications focused on malware. The applications presented serve to demystify the topics by illustrating the use of various learning techniques in straightforward scenarios. Some of the exercises in this book require programming, and elementary computing concepts are assumed in a few of the application sections. However, anyone with a modest amount of computing experience should have no trouble with this aspect of the book. Instructor resources, including PowerPoint slides, lecture videos, and other relevant material are provided on an accompanying website: <http://www.cs.sjsu.edu/~stamp/ML/>.

Computer Networks and Intelligent Computing K. R. Venugopal, L. M. Patnaik, 2011-07-20 This book constitutes the refereed proceedings of the 5th International Conference on Information Processing, ICIP 2011, held in Bangalore, India, in August 2011. The 86 revised full papers presented were carefully reviewed and selected from 514 submissions. The papers are organized in topical sections on data mining; Web mining; artificial intelligence; soft computing; software engineering; computer communication networks; wireless networks; distributed systems and storage networks; signal processing; image processing and pattern recognition.

Hands-On Artificial Intelligence for Cybersecurity Alessandro Parisi, 2019-08-02 Build smart cybersecurity systems with the power of machine learning and deep learning to protect your corporate assets
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Evaluate cybersecurity strategies and learn how you can improve them
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If you're a cybersecurity professional or ethical hacker who wants to build intelligent systems using the power of machine learning and AI, you'll find this book useful. Familiarity with cybersecurity concepts and knowledge of Python programming is essential to get the most out of this book.

Machine Learning for Red Team Hackers Dr Emmanuel Tsukerman, 2020-08-15 Everyone knows that AI and machine learning are the future of penetration testing. Large cybersecurity enterprises talk about hackers automating and smartening their tools; The newspapers report on cybercriminals utilizing voice transfer technology to impersonate CEOs; The media warns us about the implications of DeepFakes in politics and beyond... This book finally teaches you how to use Machine Learning for Penetration Testing. This book will be teaching you, in a hands-on and practical manner, how to use the Machine Learning to perform penetration testing attacks, and how to perform penetration testing attacks ON Machine Learning systems. It will teach you techniques that few hackers or security experts know about. You will learn- how to supercharge your vulnerability fuzzing using Machine Learning.- how to evade Machine Learning malware classifiers.- how to perform adversarial attacks on commercially-available Machine Learning as a Service models.- how to bypass CAPTCHAs using Machine Learning.- how to create Deepfakes.- how to poison, backdoor and steal Machine Learning models. And you will solidify your slick new skills in fun hands-on assignments.

Voting Experiments André Blais, Jean-François Laslier, Karine Van der Straeten, 2016-10-03 This book presents a collection of papers illustrating the variety of experimental methodologies used to study voting. Experimental methods include laboratory experiments in the tradition of political psychology, laboratory experiments with monetary incentives, in the economic tradition, survey experiments (varying survey, question wording, framing or content), as well as various kinds of field experimentation. Topics include the behavior of voters (in particular turnout, vote choice, and strategic voting), the behavior of parties and candidates, and the comparison of electoral rules.

Information Systems Security and Privacy Paolo Mori, Steven Furnell, Olivier Camp, 2020-06-27 This book constitutes the revised selected papers of the 5th International Conference on Information Systems Security and Privacy, ICISPP 2019, held in Prague, Czech Republic, in February 2019. The 19 full papers presented were carefully reviewed and selected from a total of 100 submissions. The papers presented in this volume address various topical research, including new approaches for attack modelling and prevention, incident management and response, and user authentication and access control, as well as business and human-oriented aspects such as data protection and privacy, and security awareness.

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