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Redefining Object Detection for Open-World Settings: A Framework for Simultaneous Identification of Known and Unknown Classes

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ABSTRACT Traditional closed-world object detection methods are limited to a predefined set of classes and struggle to recognize objects beyond these boundaries. This work proposes an improved Open-World Object Detection (OWOD) methodology that supports the identification and Incremental Detection of both known and unknown objects. Existing OWOD methods typically face uncertainties due to the adoption of complex and ambiguous strategies for discovering the unknown objects. Such approaches lower the detection accuracy of the known classes. To effectively tackle these challenges, this study presents a new Open-World Novelty and Outlier Detection (OWNOD). The framework integrates a dynamic thresholding mechanism a customized loss function and statistical verification technique optimize the simultaneous detection of both known and unknown objects. By combining these approaches, OWNOD enhances the balance between identifying new, unseen objects and maintaining accuracy for previously learned classes, effectively addressing the inherent complexities of open-world object detection. We benchmark against state-of-the-art methods, that includes the baseline ORE and ABLTL. We also report significant improvements across multiple metrics. For instance, in Task 1, K-mAP improved by 3.10 points, U-mAP by 2.20 points, and U-Recall by 9.50 points. In Task 2, K-mAP improved by 5.65 points, U-mAP by 2.43 points, and U-Recall by 2.46 points. In Task 3, we achieved gains of 4.14 points for K-mAP, 0.34 points for U-mAP, and 6.62 points for U-Recall. For Task 4, where all classes are known, we report a K-mAP improvement of 5.89 points, demonstrating the robustness and effectiveness of our model.

INDEX TERMS Open-World Object Detection, Region of Interest, Region Convolutional Neural Network.

I. INTRODUCTION

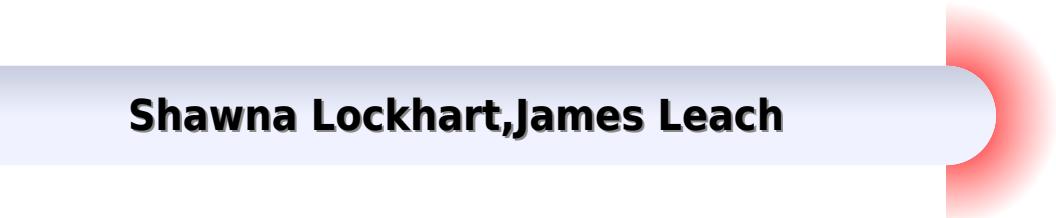
Deep learning models have played a significant role in the development of advanced object detection models [1], [2], [3] substantially increasing the potential applications of these models in fields such as autonomous driving, crowd control, visual reasoning, and visual question answering. However, traditional deep learning-based object detection approaches work under a static and closed-world approach, meaning only a predetermined labelled set of classes are detected and evaluated. On the contrary, it is highly likely that in real-world scenarios, the model may encounter instances of unknown classes that are simply ignored or misclassified as any set of learned known classes. Humans have the natural tendency

to distinguish the known classes from the unknown and incrementally update their knowledge base as new labels are available for the unknown classes later. Open-world object detection is aimed at reducing the perceptual gap between humans and machines, hence highlighting the critical need for ongoing research in this area.

Open-World Object Detection (OWOD) aims to extend traditional object detection by enabling the identification of both known and unknown objects in dynamic environments. However, existing OWOD approaches often struggle to maintain a balance in detection accuracy between known and unknown classes. This challenge arises largely due to their reliance on complex strategies for discovering unknown

Redefining The Object

Shawna Lockhart, James Leach



Redefining The Object:

Official Gazette of the United States Patent and Trademark Office United States. Patent and Trademark Office,1999

Rethinking Smart Objects Daniel W. Rasmus,1999 This is the first book to explain the integration of object technology and knowledge software development Daniel Rasmus has surveyed his own body of work and gathered and reworked the most important and relevant material from his contributions to Object Magazine in order to explain how to create intelligent software to control and automate the functional units of information created through object technology

Implementing Cisco IOS Network Security (IINS 640-554) Foundation Learning Guide Catherine Paquet,2012-11-29 Implementing Cisco IOS Network Security IINS Foundation Learning Guide Second Edition Foundation learning for the CCNA Security IINS 640 554 exam Implementing Cisco IOS Network Security IINS Foundation Learning Guide Second Edition is a Cisco authorized self paced learning tool for CCNA Security 640 554 foundation learning This book provides you with the knowledge needed to secure Cisco networks By reading this book you will gain a thorough understanding of how to develop a security infrastructure recognize threats and vulnerabilities to networks and mitigate security threats This book focuses on using Cisco IOS routers to protect the network by capitalizing on their advanced features as a perimeter router firewall intrusion prevention system and site to site VPN device The book also covers the use of Cisco Catalyst switches for basic network security the Cisco Secure Access Control System ACS and the Cisco Adaptive Security Appliance ASA You learn how to perform basic tasks to secure a small branch office network using Cisco IOS security features available through web based GUIs Cisco Configuration Professional and the CLI on Cisco routers switches and ASAs Whether you are preparing for CCNA Security certification or simply want to gain a better understanding of Cisco IOS security fundamentals you will benefit from the information provided in this book Implementing Cisco IOS Network Security IINS Foundation Learning Guide Second Edition is part of a recommended learning path from Cisco that includes simulation and hands on training from authorized Cisco Learning Partners and self study products from Cisco Press To find out more about instructor led training e learning and hands on instruction offered by authorized Cisco Learning Partners worldwide please visit www.cisco.com/go/authorizedtraining Develop a comprehensive network security policy to counter threats against information security Secure borderless networks Learn how to use Cisco IOS Network Foundation Protection NFP and Cisco Configuration Professional CCP Securely implement the management and reporting features of Cisco IOS devices Deploy Cisco Catalyst Switch security features Understand IPv6 security features Plan threat control strategies Filter traffic with access control lists Configure ASA and Cisco IOS zone based firewalls Implement intrusion prevention systems IPS and network address translation NAT Secure connectivity with site to site IPsec VPNs and remote access VPNs This volume is in the Foundation Learning Guide Series offered by Cisco Press These guides are developed together with Cisco as the only authorized self paced learning tools that help networking professionals build their understanding of networking concepts and prepare for Cisco certification exams

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Redefining Murder, Transforming Emotion

Kristen Discola, 2020-11-09 Offering insights based on years of original research *Redefining Murder Transforming Emotion* An Exploration of Forgiveness after Loss Due to Homicide investigates the ideas and experiences of individuals who have lost loved ones to homicide co victims in order to advance our understanding of the emotional transformation of forgiveness It stands at the crux of two vibrant growing fields criminal victimology and the sociology of emotion Analysis of 36 intensive interviews with co victims and three years of participant observation of self help groups and other victim centered events offers a multidimensional understanding of forgiveness Specifically this book answers the questions of What When How and Why forgiveness occurs by exploring co victims ideas about forgiveness the differential experiences of various groups of people the processes through which forgiveness occurs in a variety of extreme circumstances of homicide and co victims motivations toward forgiveness The book concludes with commentary on overarching conclusions based on this work theoretical and practical implications suggestions for directions for future inquiry and an in depth account of the methodological strategies employed to gather such rich and nuanced data This book will appeal to academics and students alike within relevant fields including sociology criminology restorative justice victim services psychology and social welfare as well as individuals seeking a better understanding of their own experiences including co victims or others whose lives have been altered by extreme forms of violence and upheaval Its detailed postscript will also serve well those interested in qualitative methodology in social science research

Model Driven Engineering Languages and Systems Robert B.

France, Jürgen Kazmeier, Ruth Breu, Colin Atkinson, 2012-09-19 This book constitutes the refereed proceedings of the 15th International Conference on Model Driven Engineering Languages and Systems MODELS 2012 held in Innsbruck Austria in September October 2012 The 50 papers presented in this volume were carefully reviewed and selected from a total of 181 submissions They are organized in topical sections named metamodels and domain specific modeling models at runtime model management modeling methods and tools consistency analysis software product lines foundations of modeling static analysis techniques model testing and simulation model transformation model matching tracing and synchronization modeling practices and experience and model analysis

Object-Oriented Programming Languages: Interpretation

Iain D. Craig, 2007-04-26 This comprehensive examination of the main approaches to object oriented language explains key features of the languages in use today Class based prototypes and Actor languages are all examined and compared in terms of their semantic concepts This book provides a unique overview of the main approaches to object oriented languages Exercises of varying length some of which can be extended into mini projects are included at the end of each chapter This book can be used as part of courses on Comparative Programming Languages or Programming Language Semantics at Second or Third Year Undergraduate Level Some understanding of programming language concepts is required

The Metaphysics of Identity over Time D. Oderberg, 1993-10-21 This book is a systematic investigation into the metaphysical

foundations of identity over time The author elaborates and evaluates the most common theory about the persistence of objects through time and change namely the classical theory of spatio temporal continuity He shows how the theory requires an ontology of temporal parts according to which objects are made up of temporally extended segments or stages This ontology is criticized as unwarranted by modern space time physics and as internally incoherent The author argues that identity over time should be seen as a primitive or unanalysable phenomenon and that the so called puzzle cases and paradoxes of identity can be dealt with without recourse to such an ontology

Collections of Math Dr. Henry Garrett, 2023-02-01 In this research book there are some research chapters on Collections of Math With researches on the basic properties the research book starts to make Collections of Math more understandable Some studies and researches about neutrosophic graphs are proposed as book in the following by Henry Garrett 2022 which is indexed by Google Scholar and has more than 2498 readers in Scribd It s titled Beyond Neutrosophic Graphs and published by Ohio E publishing Educational Publisher 1091 West 1st Ave Grandview Heights Ohio 43212 United State This research book covers different types of notions and settings in neutrosophic graph theory and neutrosophic SuperHyperGraph theory Ref Henry Garrett 2022 Beyond Neutrosophic Graphs Ohio E publishing Educational Publisher 1091 West 1st Ave Grandview Heights Ohio 43212 United States ISBN 978 1 59973 725 6 <http://fs.unm.edu/BeyondNeutrosophicGraphs.pdf> Also some studies and researches about neutrosophic graphs are proposed as book in the following by Henry Garrett 2022 which is indexed by Google Scholar and has more than 3218 readers in Scribd It s titled Neutrosophic Duality and published by Florida GLOBAL KNOWLEDGE Publishing House 848 Brickell Ave Ste 950 Miami Florida 33131 United States This research book presents different types of notions SuperHyperResolving and SuperHyperDominating in the setting of duality in neutrosophic graph theory and neutrosophic SuperHyperGraph theory This research book has scrutiny on the complement of the intended set and the intended set simultaneously It s smart to consider a set but acting on its complement that what s done in this research book which is popular in the terms of high readers in Scribd Ref Henry Garrett 2022 Neutrosophic Duality Florida GLOBAL KNOWLEDGE Publishing House 848 Brickell Ave Ste 950 Miami Florida 33131 United States ISBN 978 1 59973 743 0 <http://fs.unm.edu/NeutrosophicDuality.pdf> section Background There are some researches covering the topic of this research In what follows there are some discussion and literature reviews about them First article is titled properties of SuperHyperGraph and neutrosophic SuperHyperGraph in textbf Ref cite HG1 by Henry Garrett 2022 It s first step toward the research on neutrosophic SuperHyperGraphs This research article is published on the journal Neutrosophic Sets and Systems in issue 49 and the pages 531 561 In this research article different types of notions like dominating resolving coloring Eulerian Hamiltonian neutrosophic path n Eulerian Hamiltonian neutrosophic path zero forcing number zero forcing neutrosophic number independent number independent neutrosophic number clique number clique neutrosophic number matching number matching neutrosophic number girth neutrosophic girth 1 zero forcing number 1 zero forcing neutrosophic

number failed 1 zero forcing number failed 1 zero forcing neutrosophic number global offensive alliance t offensive alliance t defensive alliance t powerful alliance and global powerful alliance are defined in SuperHyperGraph and neutrosophic SuperHyperGraph Some Classes of SuperHyperGraph and Neutrosophic SuperHyperGraph are cases of research Some results are applied in family of SuperHyperGraph and neutrosophic SuperHyperGraph Thus this research article has concentrated on the vast notions and introducing the majority of notions The seminal paper and groundbreaking article is titled neutrosophic co degree and neutrosophic degree alongside chromatic numbers in the setting of some classes related to neutrosophic hypergraphs in textbf Ref cite HG2 by Henry Garrett 2022 In this research article a novel approach is implemented on SuperHyperGraph and neutrosophic SuperHyperGraph based on general forms without using neutrosophic classes of neutrosophic SuperHyperGraph It s published in prestigious and fancy journal is entitled Journal of Current Trends in Computer Science Research JCTCSR with abbreviation J Curr Trends Comp Sci Res in volume 1 and issue 1 with pages 06 14 The research article studies deeply with choosing neutrosophic hypergraphs instead of neutrosophic SuperHyperGraph It s the breakthrough toward independent results based on initial background The seminal paper and groundbreaking article is titled Super Hyper Dominating and Super Hyper Resolving on Neutrosophic Super Hyper Graphs and Their Directions in Game Theory and Neutrosophic Super Hyper Classes in textbf Ref cite HG3 by Henry Garrett 2022 In this research article a novel approach is implemented on SuperHyperGraph and neutrosophic SuperHyperGraph based on fundamental SuperHyperNumber and using neutrosophic SuperHyperClasses of neutrosophic SuperHyperGraph It s published in prestigious and fancy journal is entitled Journal of Mathematical Techniques and Computational Mathematics JMTCM with abbreviation J Math Techniques Comput Math in volume 1 and issue 3 with pages 242 263 The research article studies deeply with choosing directly neutrosophic SuperHyperGraph and SuperHyperGraph It s the breakthrough toward independent results based on initial background and fundamental SuperHyperNumbers In some articles are titled 0039 Closing Numbers and Super Closing Numbers as Dual Resolving and Dual Coloring alongside Dual Dominating in Neutrosophic n SuperHyperGraph in textbf Ref cite HG4 by Henry Garrett 2022 0049 Failed 1 Zero Forcing Number in Neutrosophic Graphs in textbf Ref cite HG5 by Henry Garrett 2022 Extreme SuperHyperClique as the Firm Scheme of Confrontation under Cancer s Recognition as the Model in The Setting of Neutrosophic SuperHyperGraphs in textbf Ref cite HG6 by Henry Garrett 2022 Uncertainty On The Act And Effect Of Cancer Alongside The Foggy Positions Of Cells Toward Neutrosophic Failed SuperHyperClique inside Neutrosophic SuperHyperGraphs Titled Cancer s Recognition in textbf Ref cite HG7 by Henry Garrett 2022 Neutrosophic Version Of Separates Groups Of Cells In Cancer s Recognition On Neutrosophic SuperHyperGraphs in textbf Ref cite HG8 by Henry Garrett 2022 The Shift Paradigm To Classify Separately The Cells and Affected Cells Toward The Totality Under Cancer s Recognition By New Multiple Definitions On the Sets Polynomials Alongside Numbers In The Neutrosophic SuperHyperMatching Theory Based on SuperHyperGraph and Neutrosophic

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Epicureanism Robert J. Roecklein, 2012-10-05 This book investigates the influence of Epicurean physics on the argument developed in Machiavelli's Discourses On Livy Towards this end the full philosophical history and origins of atomist philosophy are investigated during the first three chapters Plato's critique of the atomist philosophy from his dialogue the Parmenides is a part of that investigation In fact Plato provides a refutation of the atomist philosophy in the Parmenides A significant amount of scholarship has been accomplished that demonstrates the currents of Lucretian atomism in Machiavelli's Florence Evidence is supplied as to Machiavelli's exposure to the Lucretian text and the book then proceeds to investigate the transformational arguments of the Discourses On Livy itself Machiavelli's Discourses are saturated with terminology that is borrowed from physics materia Matter corpo body forma form accidente accident English translators have usually employed some theory as to which tradition of physics Machiavelli is relying upon in order to conduct their translations By borrowing the terminology of Lucretian physics Machiavelli becomes able to conceive of the people in a political society as something less than human as matter or materia without form In my analysis of Machiavelli's deployment of the concepts from Lucretian physics it is attempted to unveil the brutality that is inherent in Machiavelli's new definitions of the elements of politics and the general hostility of his political science to the Aristotelian concept of the human being as political animal

The classical physics of Aristotle which Machiavelli has rejected for a model indicates the forward looking momentum of natural beings For Aristotle nature intends human political society as the arena for human fulfillment In Aristotelian physics nature aims at an end in generation i e at a culmination of the natural being in its proper condition of excellence For human beings this is justice the quality of relationships that makes happiness possible In Machiavelli a new politicized physics is revealed In Machiavelli s model the human beings of formed matter are repeatedly sent through new institutions and methods of government back to their beginnings i e to a condition of isolation destitution injury and pain The last chapter of the book concludes with an examination of the particular institutions and methods that Machiavelli holds out to us for employment if his new vision of a republic is to be realized

AutoCAD 2023 Instructor Shawna Lockhart,James Leach,2022-04 This book is your AutoCAD 2023 Instructor The objective of this book is to provide you with extensive knowledge of AutoCAD whether you are taking an instructor led course or learning on your own AutoCAD 2023 Instructor maintains the pedagogy and in depth coverage that have always been the hallmark of the Leach texts As the top selling university textbook for more than a decade the AutoCAD Instructor series continues to deliver broad coverage of AutoCAD in a structured easy to comprehend manner AutoCAD 2023 Instructor is command oriented just like AutoCAD Chapters are structured around related commands similar to the organization of AutoCAD s menu system The sequence of chapters starts with fundamental drawing commands and skills and then progresses to more elaborate procedures and specialized applications The writing style introduces small pieces of information explained in simple form and then builds on that knowledge to deliver more complex drawing strategies requiring a synthesis of earlier concepts Over 2000 figures illustrate the commands features and ideas AutoCAD 2023 Instructor is an ideal reference guide unlike tutorial oriented books where specific information is hard to relocate Because these chapters focus on related commands and complete coverage for each command is given in one place the commands procedures and applications are easy to reference Tabbed pages help locate tables lists appendices and the comprehensive index

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Model-Driven Development with Executable UML Dragan Milicev,2009-06-22 A comprehensive reference for an executable UML and the advantages of modeling This book presents the most up to date technology for rapidly developing information systems using the object oriented paradigm and models and establishes an executable profile of UML for such model driven development As a

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Poverty, Equality, and Growth Deborah J. Milly, 2020-03-23 In striking contrast to the large indigent population in Japan in the 1950s very few Japanese live in poverty today This book explains the Japanese government s decision to respond to poverty by promoting equality as the basis for a social compromise Milly argues that to account for why and how political actors crafted a program that won acceptance we must look beyond them and identify how they relied on knowledge and normative arguments This book straddles theoretical fault lines in comparative politics by exploring the interactions among choice language knowledge and institutions in policy processes and has implications for the ongoing debate between proponents of rational choice theory as a universal explanation for the decisions of political actors and those who focus on historically or culturally specific conditions

Hyperobject Reading, Scale Variance, and American Fiction in the Anthropocene Chingshun J. Sheu, 2023-03-25 This book proposes a model of reading called hyperobject reading that bridges the Anthropocene scale variance between humans and humanity by focusing on the large scale problems and phenomena themselves Hyperobject reading draws on narratology and reader response theory as well as newer developments such as the postcritical turn and object oriented ontology The theoretical introduction sets out the building blocks of hyperobject reading Chapter 2 intervenes in critical disability studies and debates about the ecosomatic paradigm Chapter 3 intervenes in debates about technological evolution analogue vs digital subjectivity and affect theory and Chapter 4 intervenes in debates about autofiction contemporary metafiction and the position and role of the narrator in first person narratives where the narrator and protagonist can be distinguished The analytical conclusion sketches the conceptual anatomy of the hyperobject and three possible responses No part of the Earth today is free from human influence but literary success suggests effective real world strategies

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