

1. Record Nr.	UNINA9910257428603321
Autore	Fieck G
Titolo	Symmetry of Polycentric Systems [[electronic resource]] : The Polycentric Tensor Algebra for Molecules / / by G. Fieck
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1982
ISBN	3-540-39349-8
Edizione	[1st ed. 1982.]
Descrizione fisica	1 online resource (VI, 140 p. 2 illus.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 167
Disciplina	541
Soggetti	Physical chemistry Physical Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Summary of the Wigner-Racah algebra of non-simply-reducible point groups with non-ambivalent classes -- Representations induced by polyhedral edges -- Bicentric matrices -- The matrix elements of s.-a. molecular orbitals -- Polyhedral coefficients referring to edges -- Triangular coefficients -- Triangular invariants -- Symmetry-adapted geminals and densities -- Pseudo-tetrahedral coefficients -- Two-particle interaction -- Complete bases of irreducible representations -- Transformation properties and structure of the multi-centre integrals -- Multi-centre integrals and molecular symmetry -- Ab initio determination of the polycentric invariants -- Wolfsberg-Helmholtz and Mulliken approximations -- Floating orbitals -- Overlap- and structural matrices, orthonormalization -- Many-electron systems -- Sketch of the VB picture -- Prospect of crystals -- Case study: Tetrahedral structures -- Case study: Matrix elements.

2. Record Nr.	UNISA996500066703316
Titolo	Computer vision - ECCV 2022 . Part V : 17th European Conference, Tel Aviv, Israel, October 23-27, 2022 : proceedings / / Shai Avidan [and four others]
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2022] ©2022
ISBN	3-031-20065-9
Descrizione fisica	1 online resource (804 pages)
Collana	Lecture Notes in Computer Science
Disciplina	006.37
Soggetti	Computer vision - Equipment and supplies Pattern recognition systems - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Foreword -- Preface -- Organization -- Contents - Part V -- Adaptive Image Transformations for Transfer-Based Adversarial Attack -- 1 Introduction -- 2 Related Work -- 2.1 Adversarial Attack -- 2.2 Adversarial Defense -- 3 Method -- 3.1 Notations -- 3.2 Overview of AITL -- 3.3 Training AITL -- 3.4 Generating Adversarial Examples with AITL -- 4 Experiments -- 4.1 Settings -- 4.2 Compared with the State-of-the-Art Methods -- 4.3 Analysis on Image Transformation Operations -- 5 Conclusion -- References -- Generative Multiplane Images: Making a 2D GAN 3D-Aware -- 1 Introduction -- 2 Related Work and Background -- 3 Generative Multiplane Images (GMPI) -- 3.1 Overview -- 3.2 GMPI: StyleGANv2 with an Alpha Branch -- 3.3 Differentiable Rendering in GMPI -- 3.4 Discriminator Pose Conditioning -- 3.5 Miscellaneous Adjustment: Shading-Guided Training -- 3.6 Training -- 4 Experiments -- 4.1 Datasets -- 4.2 Evaluation Metrics -- 4.3 Results -- 4.4 Ablation Studies -- 5 Conclusion -- References -- AdvDO: Realistic Adversarial Attacks for Trajectory Prediction -- 1 Introduction -- 2 Related Works -- 3 Problem Formulation and Challenges -- 4 AdvDO: Adversarial Dynamic Optimization -- 4.1 Dynamic Parameters Estimation -- 4.2 Adversarial Trajectory Generation -- 5 Experiments -- 5.1 Experimental Setting -- 5.2 Main Results -- 6 Conclusion -- References -- Adversarial

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One Size Does NOT Fit All: Data-Adaptive Adversarial Training -- 1 Introduction -- 2 Related Work -- 2.1 Adversarial Defense -- 2.2 Decline of the Natural Accuracy -- 3 Review of Standard Adversarial Training -- 4 Adversarial Perturbation Size Matters -- 5 Data-Adaptive Adversarial Training -- 6 Experiment -- 6.1 Investigation of Hyper-parameters -- 6.2 White-Box and Black-Box Attacks -- 6.3 Distribution of Adversaries -- 6.4 DAAT with Different Calibration Strategies -- 7 Conclusions -- References -- UniCR: Universally Approximated Certified Robustness via Randomized Smoothing -- 1 Introduction -- 2 Universally Approximated Certified Robustness -- 2.1 Universal Certified Robustness -- 2.2 Approximating Tight Certified Robustness -- 3 Deriving Certified Radius Within Robustness Boundary -- 3.1 Calculating Certified Radius in Practice -- 4 Optimizing Noise PDF for Certified Robustness -- 4.1 Noise PDF Optimization -- 4.2 C-OPT and I-OPT -- 5 Experiments -- 5.1 Experimental Setting -- 5.2 Universality Evaluation -- 5.3 Optimizing Certified Radius with C-OPT -- 5.4 Optimizing Certified Radius with I-OPT -- 5.5 Best Performance Comparison -- 6 Related Work -- 7 Conclusion -- References -- Hardly Perceptible Trojan Attack Against Neural Networks with Bit Flips -- 1 Introduction -- 2 Related Works and Preliminaries -- 3 Methodology -- 3.1 Hardly Perceptible Trigger -- 3.2 Problem Formulation -- 3.3 Optimization -- 4 Experiments -- 4.1 Setup -- 4.2 Attack Results -- 4.3 Human Perceptual Study -- 4.4 Discussions -- 4.5 Potential Defenses -- 4.6 Ablation Studies -- 5 Conclusion -- References -- Robust Network Architecture Search via Feature Distortion Restraining -- 1 Introduction -- 2 Related Works -- 3 Preliminary -- 4 Method -- 4.1 Network Vulnerability Constraint -- 4.2 Robust Network Architecture Search (RNAS) -- 5 Experiment -- 5.1 Experimental Setup.

5.2 Results on CIFAR-10 -- 5.3 Results on CIFAR-100, SVHN and Tiny-ImageNet -- 5.4 Upper Bound H of network vulnerability -- 6 Conclusion -- References -- SecretGen: Privacy Recovery on Pre-trained Models via Distribution Discrimination -- 1 Introduction -- 2 Related Work -- 3 Methodology -- 3.1 Problem Formulation -- 3.2 Method Overview -- 3.3 Generation Backbone of SecretGen -- 3.4 Pseudo Label Predictor -- 3.5 Latent Vector Selector -- 3.6 SecretGen Optimization -- 3.7 Discussion -- 4 Experiments -- 4.1 Experimental Setup -- 4.2 Evaluation Protocols -- 4.3 Attack Performance -- 4.4 Robustness Evaluation -- 4.5 Ablation Studies -- 5 Conclusion -- References -- Triangle Attack: A Query-Efficient Decision-Based Adversarial Attack -- 1 Introduction -- 2 Related Work -- 3 Methodology -- 3.1 Preliminaries -- 3.2 Motivation -- 3.3 Triangle Attack -- 4 Experiments -- 4.1 Experimental Setup -- 4.2 Evaluation on Standard Models -- 4.3 Evaluation on Real-world Applications -- 4.4 Ablation Study -- 4.5 Further Discussion -- 5 Conclusion -- References -- Data-Free Backdoor Removal Based on Channel Lipschitzness -- 1 Introduction -- 2 Related Work -- 2.1 Backdoor Attack -- 2.2 Backdoor Defense -- 3 Preliminaries -- 3.1 Notations -- 3.2 L-Lipschitz Function -- 3.3 Lipschitz Constant in Neural Networks -- 4 Methodology -- 4.1 Channel Lipschitz Constant -- 4.2 Trigger-

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-- 5.2 Results on Attacking Google Cloud Vision -- 6 Discussion and Conclusion -- References -- Generative Domain Adaptation for Face Anti-Spoofing -- 1 Introduction -- 2 Related Work -- 3 Methodology -- 3.1 Overview -- 3.2 Generative Domain Adaptation -- 3.3 Overall Objective and Optimization -- 4 Experiments -- 4.1 Experimental Setup -- 4.2 Comparisons to the State-of-the-Art Methods -- 4.3 Ablation Studies.
4.4 Visualization and Analysis.
