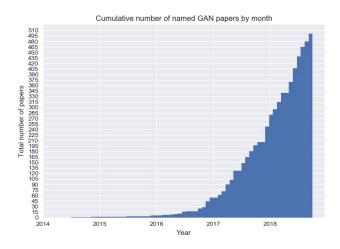
The GAN Zoo



Every week, new GAN papers are coming out and it's hard to keep track of them all, not to mention the incredibly creative ways in which researchers are naming these GANs! So, here's a list of what started as a fun activity compiling all named GANs!



You can also check out the same data in a tabular format with functionality to filter by year or do a quick search by title here.

Contributions are welcome. Add links through pull requests in gans.tsv file in the same format or create an issue to lemme know something I missed or to start a discussion.

Check out Deep Hunt - my weekly Al newsletter for this repo as blogpost and follow me on Twitter.

 3D-ED-GAN - Shape Inpainting using 3D Generative Adversarial Network and Recurrent Convolutional Networks

- 3D-GAN Learning a Probabilistic Latent Space of Object Shapes via 3D Generative-Adversarial Modeling (github)
- 3D-IWGAN Improved Adversarial Systems for 3D Object Generation and Reconstruction (github)
- 3D-PhysNet 3D-PhysNet: Learning the Intuitive Physics of Non-Rigid Object Deformations
- 3D-RecGAN 3D Object Reconstruction from a Single Depth View with Adversarial Learning (github)
- ABC-GAN ABC-GAN: Adaptive Blur and Control for improved training stability of Generative Adversarial Networks (github)
- ABC-GAN GANs for LIFE: Generative Adversarial Networks for Likelihood Free Inference
- AC-GAN Conditional Image Synthesis With Auxiliary Classifier GANs
- acGAN Face Aging With Conditional Generative Adversarial Networks
- ACGAN Coverless Information Hiding Based on Generative adversarial networks
- acGAN On-line Adaptative Curriculum Learning for GANs
- ACtuAL ACtuAL: Actor-Critic Under Adversarial Learning
- AdaGAN AdaGAN: Boosting Generative Models
- Adaptive GAN Customizing an Adversarial Example Generator with Class-Conditional GANs
- AdvEntuRe AdvEntuRe: Adversarial Training for Textual Entailment with Knowledge-Guided Examples
- AdvGAN Generating adversarial examples with adversarial networks
- AE-GAN AE-GAN: adversarial eliminating with GAN
- AE-OT Latent Space Optimal Transport for Generative Models
- AEGAN Learning Inverse Mapping by Autoencoder based Generative Adversarial Nets
- AF-DCGAN AF-DCGAN: Amplitude Feature Deep Convolutional GAN for Fingerprint Construction in Indoor Localization System
- AffGAN Amortised MAP Inference for Image Super-resolution
- AIM Generating Informative and Diverse Conversational Responses via Adversarial Information Maximization
- AL-CGAN Learning to Generate Images of Outdoor Scenes from Attributes and Semantic Layouts
- ALI Adversarially Learned Inference (github)
- AlignGAN AlignGAN: Learning to Align Cross-Domain Images with Conditional Generative Adversarial Networks
- AlphaGAN AlphaGAN: Generative adversarial networks for natural image matting
- AM-GAN Activation Maximization Generative Adversarial Nets
- AmbientGAN AmbientGAN: Generative models from lossy measurements (github)
- AMC-GAN Video Prediction with Appearance and Motion Conditions
- AnoGAN Unsupervised Anomaly Detection with Generative Adversarial Networks to Guide Marker Discovery

- APD Adversarial Distillation of Bayesian Neural Network Posteriors
- APE-GAN APE-GAN: Adversarial Perturbation Elimination with GAN
- ARAE Adversarially Regularized Autoencoders for Generating Discrete Structures (github)
- ARDA Adversarial Representation Learning for Domain Adaptation
- ARIGAN ARIGAN: Synthetic Arabidopsis Plants using Generative Adversarial Network
- ArtGAN ArtGAN: Artwork Synthesis with Conditional Categorial GANs
- ASDL-GAN Automatic Steganographic Distortion Learning Using a Generative Adversarial Network
- ATA-GAN Attention-Aware Generative Adversarial Networks (ATA-GANs)
- Attention-GAN Attention-GAN for Object Transfiguration in Wild Images
- AttGAN Arbitrary Facial Attribute Editing: Only Change What You Want (github)
- AttnGAN AttnGAN: Fine-Grained Text to Image Generation with Attentional Generative Adversarial Networks (github)
- AVID AVID: Adversarial Visual Irregularity Detection
- B-DCGAN B-DCGAN: Evaluation of Binarized DCGAN for FPGA
- b-GAN Generative Adversarial Nets from a Density Ratio Estimation Perspective
- BAGAN BAGAN: Data Augmentation with Balancing GAN
- Bayesian GAN Deep and Hierarchical Implicit Models
- Bayesian GAN Bayesian GAN (github)
- BCGAN Bayesian Conditional Generative Adverserial Networks
- BCGAN Bidirectional Conditional Generative Adversarial networks
- BEAM Boltzmann Encoded Adversarial Machines
- BEGAN BEGAN: Boundary Equilibrium Generative Adversarial Networks
- BEGAN-CS Escaping from Collapsing Modes in a Constrained Space
- Bellman GAN Distributional Multivariate Policy Evaluation and Exploration with the Bellman GAN
- BGAN Binary Generative Adversarial Networks for Image Retrieval (github)
- Bi-GAN Autonomously and Simultaneously Refining Deep Neural Network Parameters by a Bi-Generative Adversarial Network Aided Genetic Algorithm
- BicycleGAN Toward Multimodal Image-to-Image Translation (github)
- BiGAN Adversarial Feature Learning
- BinGAN BinGAN: Learning Compact Binary Descriptors with a Regularized GAN
- BourGAN BourGAN: Generative Networks with Metric Embeddings
- BranchGAN Branched Generative Adversarial Networks for Multi-Scale Image Manifold Learning
- BRE Improving GAN Training via Binarized Representation Entropy (BRE) Regularization (github)
- BridgeGAN Generative Adversarial Frontal View to Bird View Synthesis
- BS-GAN Boundary-Seeking Generative Adversarial Networks
- BubGAN BubGAN: Bubble Generative Adversarial Networks for Synthesizing Realistic Bubbly
 Flow Images

- BWGAN Banach Wasserstein GAN
- C-GAN Face Aging with Contextual Generative Adversarial Nets
- C-RNN-GAN C-RNN-GAN: Continuous recurrent neural networks with adversarial training (github)
- CA-GAN Composition-aided Sketch-realistic Portrait Generation
- CaloGAN CaloGAN: Simulating 3D High Energy Particle Showers in Multi-Layer Electromagnetic Calorimeters with Generative Adversarial Networks (github)
- CAN CAN: Creative Adversarial Networks, Generating Art by Learning About Styles and Deviating from Style Norms
- CapsGAN CapsGAN: Using Dynamic Routing for Generative Adversarial Networks
- CapsuleGAN CapsuleGAN: Generative Adversarial Capsule Network
- CatGAN Unsupervised and Semi-supervised Learning with Categorical Generative Adversarial Networks
- CatGAN CatGAN: Coupled Adversarial Transfer for Domain Generation
- CausalGAN CausalGAN: Learning Causal Implicit Generative Models with Adversarial Training
- CC-GAN Semi-Supervised Learning with Context-Conditional Generative Adversarial Networks (github)
- cd-GAN Conditional Image-to-Image Translation
- CDcGAN Simultaneously Color-Depth Super-Resolution with Conditional Generative Adversarial Network
- CE-GAN Deep Learning for Imbalance Data Classification using Class Expert Generative Adversarial Network
- CFG-GAN Composite Functional Gradient Learning of Generative Adversarial Models
- CGAN Conditional Generative Adversarial Nets
- CGAN Controllable Generative Adversarial Network
- Chekhov GAN An Online Learning Approach to Generative Adversarial Networks
- ciGAN Conditional Infilling GANs for Data Augmentation in Mammogram Classification
- CinCGAN Unsupervised Image Super-Resolution using Cycle-in-Cycle Generative Adversarial Networks
- CipherGAN Unsupervised Cipher Cracking Using Discrete GANs
- ClusterGAN ClusterGAN : Latent Space Clustering in Generative Adversarial Networks
- CM-GAN CM-GANs: Cross-modal Generative Adversarial Networks for Common Representation Learning
- CoAtt-GAN Are You Talking to Me? Reasoned Visual Dialog Generation through Adversarial Learning
- CoGAN Coupled Generative Adversarial Networks
- ComboGAN ComboGAN: Unrestrained Scalability for Image Domain Translation (github)
- ConceptGAN Learning Compositional Visual Concepts with Mutual Consistency
- Conditional cycleGAN Conditional CycleGAN for Attribute Guided Face Image Generation

- constrast-GAN Generative Semantic Manipulation with Contrasting GAN
- Context-RNN-GAN Contextual RNN-GANs for Abstract Reasoning Diagram Generation
- CorrGAN Correlated discrete data generation using adversarial training
- Coulomb GAN Coulomb GANs: Provably Optimal Nash Equilibria via Potential Fields
- Cover-GAN Generative Steganography with Kerckhoffs' Principle based on Generative Adversarial Networks
- cowboy Defending Against Adversarial Attacks by Leveraging an Entire GAN
- CR-GAN CR-GAN: Learning Complete Representations for Multi-view Generation
- Cramèr GAN The Cramer Distance as a Solution to Biased Wasserstein Gradients
- Cross-GAN Crossing Generative Adversarial Networks for Cross-View Person Re-identification
- crVAE-GAN Channel-Recurrent Variational Autoencoders
- CS-GAN Improving Neural Machine Translation with Conditional Sequence Generative Adversarial Nets
- CSG Speech-Driven Expressive Talking Lips with Conditional Sequential Generative Adversarial Networks
- CT-GAN CT-GAN: Conditional Transformation Generative Adversarial Network for Image Attribute Modification
- CVAE-GAN CVAE-GAN: Fine-Grained Image Generation through Asymmetric Training
- CycleGAN Unpaired Image-to-Image Translation using Cycle-Consistent Adversarial Networks (github)
- D-GAN Differential Generative Adversarial Networks: Synthesizing Non-linear Facial Variations with Limited Number of Training Data
- D-WCGAN I-vector Transformation Using Conditional Generative Adversarial Networks for Short Utterance Speaker Verification
- D2GAN Dual Discriminator Generative Adversarial Nets
- D2IA-GAN Tagging like Humans: Diverse and Distinct Image Annotation
- DA-GAN DA-GAN: Instance-level Image Translation by Deep Attention Generative Adversarial Networks (with Supplementary Materials)
- DADA DADA: Deep Adversarial Data Augmentation for Extremely Low Data Regime Classification
- DAGAN Data Augmentation Generative Adversarial Networks
- DAN Distributional Adversarial Networks
- DBLRGAN Adversarial Spatio-Temporal Learning for Video Deblurring
- DCGAN Unsupervised Representation Learning with Deep Convolutional Generative Adversarial Networks (github)
- DE-GAN Generative Adversarial Networks with Decoder-Encoder Output Noise
- DeblurGAN DeblurGAN: Blind Motion Deblurring Using Conditional Adversarial Networks (github)
- DeepFD Learning to Detect Fake Face Images in the Wild

- Defense-GAN Defense-GAN: Protecting Classifiers Against Adversarial Attacks Using Generative Models (github)
- Defo-Net Defo-Net: Learning Body Deformation using Generative Adversarial Networks
- DeliGAN DeLiGAN : Generative Adversarial Networks for Diverse and Limited Data (github)
- DF-GAN Learning Disentangling and Fusing Networks for Face Completion Under Structured Occlusions
- DialogWAE DialogWAE: Multimodal Response Generation with Conditional Wasserstein Auto-Encoder
- DiscoGAN Learning to Discover Cross-Domain Relations with Generative Adversarial Networks
- DistanceGAN One-Sided Unsupervised Domain Mapping
- DM-GAN Dual Motion GAN for Future-Flow Embedded Video Prediction
- DMGAN Disconnected Manifold Learning for Generative Adversarial Networks
- DNA-GAN DNA-GAN: Learning Disentangled Representations from Multi-Attribute Images
- DOPING DOPING: Generative Data Augmentation for Unsupervised Anomaly Detection with GAN
- dp-GAN Differentially Private Releasing via Deep Generative Model
- DP-GAN DP-GAN: Diversity-Promoting Generative Adversarial Network for Generating Informative and Diversified Text
- DPGAN Differentially Private Generative Adversarial Network
- DR-GAN Representation Learning by Rotating Your Faces
- DRAGAN How to Train Your DRAGAN (github)
- Dropout-GAN Dropout-GAN: Learning from a Dynamic Ensemble of Discriminators
- DRPAN Discriminative Region Proposal Adversarial Networks for High-Quality Image-to-Image Translation
- DSH-GAN Deep Semantic Hashing with Generative Adversarial Networks
- DSP-GAN Depth Structure Preserving Scene Image Generation
- DTLC-GAN Generative Adversarial Image Synthesis with Decision Tree Latent Controller
- DTN Unsupervised Cross-Domain Image Generation
- DTR-GAN DTR-GAN: Dilated Temporal Relational Adversarial Network for Video Summarization
- DualGAN DualGAN: Unsupervised Dual Learning for Image-to-Image Translation
- Dualing GAN Dualing GANs
- DVGAN Human Motion Modeling using DVGANs
- Dynamics Transfer GAN Dynamics Transfer GAN: Generating Video by Transferring Arbitrary
 Temporal Dynamics from a Source Video to a Single Target Image
- E-GAN Evolutionary Generative Adversarial Networks
- EAR Generative Model for Heterogeneous Inference
- EBGAN Energy-based Generative Adversarial Network
- ecGAN eCommerceGAN : A Generative Adversarial Network for E-commerce
- ED//GAN Stabilizing Training of Generative Adversarial Networks through Regularization

- Editable GAN Editable Generative Adversarial Networks: Generating and Editing Faces
 Simultaneously
- EGAN Enhanced Experience Replay Generation for Efficient Reinforcement Learning
- EL-GAN EL-GAN: Embedding Loss Driven Generative Adversarial Networks for Lane Detection
- ELEGANT ELEGANT: Exchanging Latent Encodings with GAN for Transferring Multiple Face Attributes
- EnergyWGAN Energy-relaxed Wassertein GANs (EnergyWGAN): Towards More Stable and High Resolution Image Generation
- ESRGAN ESRGAN: Enhanced Super-Resolution Generative Adversarial Networks
- ExGAN Eye In-Painting with Exemplar Generative Adversarial Networks
- ExposureGAN Exposure: A White-Box Photo Post-Processing Framework (github)
- ExprGAN ExprGAN: Facial Expression Editing with Controllable Expression Intensity
- f-CLSWGAN Feature Generating Networks for Zero-Shot Learning
- f-GAN f-GAN: Training Generative Neural Samplers using Variational Divergence Minimization
- FairGAN FairGAN: Fairness-aware Generative Adversarial Networks
- Fairness GAN Fairness GAN
- FakeGAN Detecting Deceptive Reviews using Generative Adversarial Networks
- FBGAN Feedback GAN (FBGAN) for DNA: a Novel Feedback-Loop Architecture for Optimizing Protein Functions
- FBGAN Featurized Bidirectional GAN: Adversarial Defense via Adversarially Learned Semantic Inference
- FC-GAN Fast-converging Conditional Generative Adversarial Networks for Image Synthesis
- FF-GAN Towards Large-Pose Face Frontalization in the Wild
- FGGAN Adversarial Learning for Fine-grained Image Search
- Fictitious GAN Fictitious GAN: Training GANs with Historical Models
- FIGAN Frame Interpolation with Multi-Scale Deep Loss Functions and Generative Adversarial Networks
- Fila-GAN Synthesizing Filamentary Structured Images with GANs
- First Order GAN First Order Generative Adversarial Networks (github)
- Fisher GAN Fisher GAN
- Flow-GAN Flow-GAN: Bridging implicit and prescribed learning in generative models
- FrankenGAN rankenGAN: Guided Detail Synthesis for Building Mass-Models Using Style-Synchonized GANs
- FSEGAN Exploring Speech Enhancement with Generative Adversarial Networks for Robust Speech Recognition
- FTGAN Hierarchical Video Generation from Orthogonal Information: Optical Flow and Texture
- FusedGAN Semi-supervised FusedGAN for Conditional Image Generation
- FusionGAN Learning to Fuse Music Genres with Generative Adversarial Dual Learning
- FusionGAN Generating a Fusion Image: One's Identity and Another's Shape

- G2-GAN Geometry Guided Adversarial Facial Expression Synthesis
- GAAN Generative Adversarial Autoencoder Networks
- GAF Generative Adversarial Forests for Better Conditioned Adversarial Learning
- GAGAN GAGAN: Geometry-Aware Generative Adverserial Networks
- GAIA Generative adversarial interpolative autoencoding: adversarial training on latent space interpolations encourage convex latent distributions
- GAIN GAIN: Missing Data Imputation using Generative Adversarial Nets
- GAMN Generative Adversarial Mapping Networks
- GAN Generative Adversarial Networks (github)
- GAN Lab GAN Lab: Understanding Complex Deep Generative Models using Interactive Visual Experimentation
- GAN Q-learning GAN Q-learning
- GAN-AD Anomaly Detection with Generative Adversarial Networks for Multivariate Time Series
- GAN-ATV A Novel Approach to Artistic Textual Visualization via GAN
- GAN-CLS Generative Adversarial Text to Image Synthesis (github)
- GAN-RS Towards Qualitative Advancement of Underwater Machine Vision with Generative Adversarial Networks
- GAN-SD Virtual-Taobao: Virtualizing Real-world Online Retail Environment for Reinforcement Learning
- GAN-sep GANs for Biological Image Synthesis (github)
- GAN-VFS Generative Adversarial Network-based Synthesis of Visible Faces from Polarimetric Thermal Faces
- GAN-Word2Vec Adversarial Training of Word2Vec for Basket Completion
- GANAX GANAX: A Unified MIMD-SIMD Acceleration for Generative Adversarial Networks
- GANCS Deep Generative Adversarial Networks for Compressed Sensing Automates MRI
- GANDI Guiding the search in continuous state-action spaces by learning an action sampling distribution from off-target samples
- GANG GANGs: Generative Adversarial Network Games
- GANG Beyond Local Nash Equilibria for Adversarial Networks
- GANosaic GANosaic: Mosaic Creation with Generative Texture Manifolds
- GANVO GANVO: Unsupervised Deep Monocular Visual Odometry and Depth Estimation with Generative Adversarial Networks
- GAP Context-Aware Generative Adversarial Privacy
- GAP Generative Adversarial Privacy
- GATS Sample-Efficient Deep RL with Generative Adversarial Tree Search
- GAWWN Learning What and Where to Draw (github)
- GC-GAN Geometry-Contrastive Generative Adversarial Network for Facial Expression Synthesis
- GcGAN Geometry-Consistent Adversarial Networks for One-Sided Unsupervised Domain Mapping

- GeneGAN GeneGAN: Learning Object Transfiguration and Attribute Subspace from Unpaired Data (github)
- GeoGAN Generating Instance Segmentation Annotation by Geometry-guided GAN
- Geometric GAN Geometric GAN
- GIN Generative Invertible Networks (GIN): Pathophysiology-Interpretable Feature Mapping and Virtual Patient Generation
- GLCA-GAN Global and Local Consistent Age Generative Adversarial Networks
- GM-GAN Gaussian Mixture Generative Adversarial Networks for Diverse Datasets, and the Unsupervised Clustering of Images
- GMAN Generative Multi-Adversarial Networks
- GMM-GAN Towards Understanding the Dynamics of Generative Adversarial Networks
- GoGAN Gang of GANs: Generative Adversarial Networks with Maximum Margin Ranking
- GONet GONet: A Semi-Supervised Deep Learning Approach For Traversability Estimation
- GP-GAN GP-GAN: Towards Realistic High-Resolution Image Blending (github)
- GP-GAN GP-GAN: Gender Preserving GAN for Synthesizing Faces from Landmarks
- GPU A generative adversarial framework for positive-unlabeled classification
- GRAN Generating images with recurrent adversarial networks (github)
- Graphical-GAN Graphical Generative Adversarial Networks
- GraphSGAN Semi-supervised Learning on Graphs with Generative Adversarial Nets
- GraspGAN Using Simulation and Domain Adaptation to Improve Efficiency of Deep Robotic Grasping
- GT-GAN Deep Graph Translation
- HAN Chinese Typeface Transformation with Hierarchical Adversarial Network
- HAN Bidirectional Learning for Robust Neural Networks
- HiGAN Exploiting Images for Video Recognition with Hierarchical Generative Adversarial Networks
- HP-GAN HP-GAN: Probabilistic 3D human motion prediction via GAN
- HR-DCGAN High-Resolution Deep Convolutional Generative Adversarial Networks
- hredGAN Multi-turn Dialogue Response Generation in an Adversarial Learning framework
- IAN Neural Photo Editing with Introspective Adversarial Networks (github)
- IcGAN Invertible Conditional GANs for image editing (github)
- ID-CGAN Image De-raining Using a Conditional Generative Adversarial Network
- IdCycleGAN Face Translation between Images and Videos using Identity-aware CycleGAN
- IFcVAEGAN Conditional Autoencoders with Adversarial Information Factorization
- iGAN Generative Visual Manipulation on the Natural Image Manifold (github)
- IGMM-GAN Coupled IGMM-GANs for deep multimodal anomaly detection in human mobility data
- Improved GAN Improved Techniques for Training GANs (github)

- In2I In2I: Unsupervised Multi-Image-to-Image Translation Using Generative Adversarial Networks
- InfoGAN InfoGAN: Interpretable Representation Learning by Information Maximizing Generative Adversarial Nets (github)
- IntroVAE IntroVAE: Introspective Variational Autoencoders for Photographic Image Synthesis
- IR2VI IR2VI: Enhanced Night Environmental Perception by Unsupervised Thermal Image Translation
- IRGAN IRGAN: A Minimax Game for Unifying Generative and Discriminative Information Retrieval models
- IRGAN Generative Adversarial Nets for Information Retrieval: Fundamentals and Advances
- ISGAN Invisible Steganography via Generative Adversarial Network
- ISP-GPM Inner Space Preserving Generative Pose Machine
- Iterative-GAN Two Birds with One Stone: Iteratively Learn Facial Attributes with GANs (github)
- IterGAN IterGANs: Iterative GANs to Learn and Control 3D Object Transformation
- IVE-GAN IVE-GAN: Invariant Encoding Generative Adversarial Networks
- iVGAN Towards an Understanding of Our World by GANing Videos in the Wild (github)
- IWGAN On Unifying Deep Generative Models
- JointGAN JointGAN: Multi-Domain Joint Distribution Learning with Generative Adversarial Nets
- JR-GAN JR-GAN: Jacobian Regularization for Generative Adversarial Networks
- KBGAN KBGAN: Adversarial Learning for Knowledge Graph Embeddings
- KGAN KGAN: How to Break The Minimax Game in GAN
- I-GAN Representation Learning and Adversarial Generation of 3D Point Clouds
- LAC-GAN Grounded Language Understanding for Manipulation Instructions Using GAN-Based Classification
- LAGAN Learning Particle Physics by Example: Location-Aware Generative Adversarial Networks for Physics Synthesis
- LAPGAN Deep Generative Image Models using a Laplacian Pyramid of Adversarial Networks (github)
- LB-GAN Load Balanced GANs for Multi-view Face Image Synthesis
- LBT Learning Implicit Generative Models by Teaching Explicit Ones
- LCC-GAN Adversarial Learning with Local Coordinate Coding
- LD-GAN Linear Discriminant Generative Adversarial Networks
- LDAN Label Denoising Adversarial Network (LDAN) for Inverse Lighting of Face Images
- LeakGAN Long Text Generation via Adversarial Training with Leaked Information
- LeGAN Likelihood Estimation for Generative Adversarial Networks
- LGAN Global versus Localized Generative Adversarial Nets
- Lipizzaner Towards Distributed Coevolutionary GANs
- LR-GAN LR-GAN: Layered Recursive Generative Adversarial Networks for Image Generation
- LS-GAN Loss-Sensitive Generative Adversarial Networks on Lipschitz Densities

- LSGAN Least Squares Generative Adversarial Networks
- M-AAE Mask-aware Photorealistic Face Attribute Manipulation
- MAD-GAN Multi-Agent Diverse Generative Adversarial Networks
- MAGAN MAGAN: Margin Adaptation for Generative Adversarial Networks
- MAGAN MAGAN: Aligning Biological Manifolds
- MalGAN Generating Adversarial Malware Examples for Black-Box Attacks Based on GAN
- MaliGAN Maximum-Likelihood Augmented Discrete Generative Adversarial Networks
- manifold-WGAN Manifold-valued Image Generation with Wasserstein Adversarial Networks
- MARTA-GAN Deep Unsupervised Representation Learning for Remote Sensing Images
- MaskGAN MaskGAN: Better Text Generation via Filling in the
- MC-GAN Multi-Content GAN for Few-Shot Font Style Transfer (github)
- MC-GAN MC-GAN: Multi-conditional Generative Adversarial Network for Image Synthesis
- McGAN McGan: Mean and Covariance Feature Matching GAN
- MD-GAN Learning to Generate Time-Lapse Videos Using Multi-Stage Dynamic Generative Adversarial Networks
- MDGAN Mode Regularized Generative Adversarial Networks
- MedGAN Generating Multi-label Discrete Electronic Health Records using Generative Adversarial Networks
- MedGAN MedGAN: Medical Image Translation using GANs
- MEGAN MEGAN: Mixture of Experts of Generative Adversarial Networks for Multimodal Image Generation
- MelanoGAN MelanoGANs: High Resolution Skin Lesion Synthesis with GANs
- memoryGAN Memorization Precedes Generation: Learning Unsupervised GANs with Memory Networks
- MeRGAN Memory Replay GANs: learning to generate images from new categories without forgetting
- MGAN Precomputed Real-Time Texture Synthesis with Markovian Generative Adversarial Networks (github)
- MGGAN Multi-Generator Generative Adversarial Nets
- MGGAN MGGAN: Solving Mode Collapse using Manifold Guided Training
- MIL-GAN Multimodal Storytelling via Generative Adversarial Imitation Learning
- MinLGAN Anomaly Detection via Minimum Likelihood Generative Adversarial Networks
- MIX+GAN Generalization and Equilibrium in Generative Adversarial Nets (GANs)
- MIXGAN MIXGAN: Learning Concepts from Different Domains for Mixture Generation
- MLGAN Metric Learning-based Generative Adversarial Network
- MMC-GAN A Multimodal Classifier Generative Adversarial Network for Carry and Place Tasks from Ambiguous Language Instructions
- MMD-GAN MMD GAN: Towards Deeper Understanding of Moment Matching Network (github)
- MMGAN MMGAN: Manifold Matching Generative Adversarial Network for Generating Images

- MoCoGAN MoCoGAN: Decomposing Motion and Content for Video Generation (github)
- Modified GAN-CLS Generate the corresponding Image from Text Description using Modified GAN-CLS Algorithm
- ModularGAN Modular Generative Adversarial Networks
- MolGAN MolGAN: An implicit generative model for small molecular graphs
- MPM-GAN Message Passing Multi-Agent GANs
- MS-GAN Temporal Coherency based Criteria for Predicting Video Frames using Deep Multistage Generative Adversarial Networks
- MTGAN MTGAN: Speaker Verification through Multitasking Triplet Generative Adversarial Networks
- MuseGAN MuseGAN: Symbolic-domain Music Generation and Accompaniment with Multi-track Sequential Generative Adversarial Networks
- MV-BiGAN Multi-view Generative Adversarial Networks
- N2RPP N2RPP: An Adversarial Network to Rebuild Plantar Pressure for ACLD Patients
- NAN Understanding Humans in Crowded Scenes: Deep Nested Adversarial Learning and A New Benchmark for Multi-Human Parsing
- NCE-GAN Dihedral angle prediction using generative adversarial networks
- ND-GAN Novelty Detection with GAN
- NetGAN NetGAN: Generating Graphs via Random Walks
- OCAN One-Class Adversarial Nets for Fraud Detection
- OptionGAN OptionGAN: Learning Joint Reward-Policy Options using Generative Adversarial Inverse Reinforcement Learning
- ORGAN Objective-Reinforced Generative Adversarial Networks (ORGAN) for Sequence Generation Models
- ORGAN 3D Reconstruction of Incomplete Archaeological Objects Using a Generative Adversary Network
- OT-GAN Improving GANs Using Optimal Transport
- PacGAN PacGAN: The power of two samples in generative adversarial networks
- PAN Perceptual Adversarial Networks for Image-to-Image Transformation
- PassGAN PassGAN: A Deep Learning Approach for Password Guessing
- PD-WGAN Primal-Dual Wasserstein GAN
- Perceptual GAN Perceptual Generative Adversarial Networks for Small Object Detection
- PGAN Probabilistic Generative Adversarial Networks
- PGD-GAN Solving Linear Inverse Problems Using GAN Priors: An Algorithm with Provable Guarantees
- PGGAN Patch-Based Image Inpainting with Generative Adversarial Networks
- PIONEER Pioneer Networks: Progressively Growing Generative Autoencoder
- Pip-GAN Pipeline Generative Adversarial Networks for Facial Images Generation with Multiple Attributes

- pix2pix Image-to-Image Translation with Conditional Adversarial Networks (github)
- pix2pixHD High-Resolution Image Synthesis and Semantic Manipulation with Conditional GANs (github)
- PixelGAN PixelGAN Autoencoders
- PM-GAN PM-GANs: Discriminative Representation Learning for Action Recognition Using Partial-modalities
- PN-GAN Pose-Normalized Image Generation for Person Re-identification
- POGAN Perceptually Optimized Generative Adversarial Network for Single Image Dehazing
- Pose-GAN The Pose Knows: Video Forecasting by Generating Pose Futures
- PP-GAN Privacy-Protective-GAN for Face De-identification
- PPAN Privacy-Preserving Adversarial Networks
- PPGN Plug & Play Generative Networks: Conditional Iterative Generation of Images in Latent Space
- PrGAN 3D Shape Induction from 2D Views of Multiple Objects
- ProGanSR A Fully Progressive Approach to Single-Image Super-Resolution
- Progressive GAN Progressive Growing of GANs for Improved Quality, Stability, and Variation (github)
- PS-GAN Pedestrian-Synthesis-GAN: Generating Pedestrian Data in Real Scene and Beyond
- PSGAN Learning Texture Manifolds with the Periodic Spatial GAN
- PSGAN PSGAN: A Generative Adversarial Network for Remote Sensing Image Pan-Sharpening
- PS²-GAN High-Quality Facial Photo-Sketch Synthesis Using Multi-Adversarial Networks
- RadialGAN RadialGAN: Leveraging multiple datasets to improve target-specific predictive models using Generative Adversarial Networks
- RaGAN The relativistic discriminator: a key element missing from standard GAN
- RAN RAN4IQA: Restorative Adversarial Nets for No-Reference Image Quality Assessment (github)
- RankGAN Adversarial Ranking for Language Generation
- RCGAN Real-valued (Medical) Time Series Generation with Recurrent Conditional GANs
- ReConNN Reconstruction of Simulation-Based Physical Field with Limited Samples by Reconstruction Neural Network
- Recycle-GAN Recycle-GAN: Unsupervised Video Retargeting
- RefineGAN Compressed Sensing MRI Reconstruction with Cyclic Loss in Generative Adversarial Networks
- ReGAN ReGAN: RE[LAX|BAR|INFORCE] based Sequence Generation using GANs (github)
- RegCGAN Unpaired Multi-Domain Image Generation via Regularized Conditional GANs
- RenderGAN RenderGAN: Generating Realistic Labeled Data
- Resembled GAN Resembled Generative Adversarial Networks: Two Domains with Similar Attributes
- ResGAN Generative Adversarial Network based on Resnet for Conditional Image Restoration

- RNN-WGAN Language Generation with Recurrent Generative Adversarial Networks without Pre-training (github)
- RoCGAN Robust Conditional Generative Adversarial Networks
- RPGAN Stabilizing GAN Training with Multiple Random Projections (github)
- RTT-GAN Recurrent Topic-Transition GAN for Visual Paragraph Generation
- RWGAN Relaxed Wasserstein with Applications to GANs
- SAD-GAN SAD-GAN: Synthetic Autonomous Driving using Generative Adversarial Networks
- SAGA Generative Adversarial Learning for Spectrum Sensing
- SAGAN Self-Attention Generative Adversarial Networks
- SalGAN SalGAN: Visual Saliency Prediction with Generative Adversarial Networks (github)
- SAM Sample-Efficient Imitation Learning via Generative Adversarial Nets
- sAOG Deep Structured Generative Models
- SAR-GAN Generating High Quality Visible Images from SAR Images Using CNNs
- SBADA-GAN From source to target and back: symmetric bi-directional adaptive GAN
- ScarGAN ScarGAN: Chained Generative Adversarial Networks to Simulate Pathological Tissue on Cardiovascular MR Scans
- SCH-GAN SCH-GAN: Semi-supervised Cross-modal Hashing by Generative Adversarial Network
- SD-GAN Semantically Decomposing the Latent Spaces of Generative Adversarial Networks
- Sdf-GAN Sdf-GAN: Semi-supervised Depth Fusion with Multi-scale Adversarial Networks
- SEGAN SEGAN: Speech Enhancement Generative Adversarial Network
- SeGAN SeGAN: Segmenting and Generating the Invisible
- SegAN SegAN: Adversarial Network with Multi-scale L1 Loss for Medical Image Segmentation
- Sem-GAN Sem-GAN: Semantically-Consistent Image-to-Image Translation
- SeqGAN SeqGAN: Sequence Generative Adversarial Nets with Policy Gradient (github)
- SeUDA Semantic-Aware Generative Adversarial Nets for Unsupervised Domain Adaptation in Chest X-ray Segmentation
- SG-GAN Semantic-aware Grad-GAN for Virtual-to-Real Urban Scene Adaption (github)
- SG-GAN Sparsely Grouped Multi-task Generative Adversarial Networks for Facial Attribute Manipulation
- SGAN Texture Synthesis with Spatial Generative Adversarial Networks
- SGAN Stacked Generative Adversarial Networks (github)
- SGAN Steganographic Generative Adversarial Networks
- SGAN SGAN: An Alternative Training of Generative Adversarial Networks
- SGAN CT Image Enhancement Using Stacked Generative Adversarial Networks and Transfer Learning for Lesion Segmentation Improvement
- sGAN Generative Adversarial Training for MRA Image Synthesis Using Multi-Contrast MRI
- SiftingGAN SiftingGAN: Generating and Sifting Labeled Samples to Improve the Remote Sensing Image Scene Classification Baseline in vitro

- SiGAN SiGAN: Siamese Generative Adversarial Network for Identity-Preserving Face Hallucination
- SimGAN Learning from Simulated and Unsupervised Images through Adversarial Training
- SisGAN Semantic Image Synthesis via Adversarial Learning
- Sketcher-Refiner GAN Learning Myelin Content in Multiple Sclerosis from Multimodal MRI through Adversarial Training
- SketchGAN Adversarial Training For Sketch Retrieval
- SketchyGAN SketchyGAN: Towards Diverse and Realistic Sketch to Image Synthesis
- Skip-Thought GAN Generating Text through Adversarial Training using Skip-Thought Vectors
- SL-GAN Semi-Latent GAN: Learning to generate and modify facial images from attributes
- SLSR Sparse Label Smoothing for Semi-supervised Person Re-Identification
- SN-DCGAN Generative Adversarial Networks for Unsupervised Object Co-localization
- SN-GAN Spectral Normalization for Generative Adversarial Networks (github)
- SN-PatchGAN Free-Form Image Inpainting with Gated Convolution
- Sobolev GAN Sobolev GAN
- Social GAN Social GAN: Socially Acceptable Trajectories with Generative Adversarial Networks
- Softmax GAN Softmax GAN
- SoPhie SoPhie: An Attentive GAN for Predicting Paths Compliant to Social and Physical Constraints
- speech-driven animation GAN End-to-End Speech-Driven Facial Animation with Temporal GANs
- Spike-GAN Synthesizing realistic neural population activity patterns using Generative Adversarial Networks
- Splitting GAN Class-Splitting Generative Adversarial Networks
- SR-CNN-VAE-GAN Semi-Recurrent CNN-based VAE-GAN for Sequential Data Generation (github)
- SRGAN Photo-Realistic Single Image Super-Resolution Using a Generative Adversarial Network
- SRPGAN SRPGAN: Perceptual Generative Adversarial Network for Single Image Super Resolution
- SS-GAN Semi-supervised Conditional GANs
- ss-InfoGAN Guiding InfoGAN with Semi-Supervision
- SSGAN SSGAN: Secure Steganography Based on Generative Adversarial Networks
- SSL-GAN Semi-Supervised Learning with Context-Conditional Generative Adversarial Networks
- ST-CGAN Stacked Conditional Generative Adversarial Networks for Jointly Learning Shadow
 Detection and Shadow Removal
- ST-GAN Style Transfer Generative Adversarial Networks: Learning to Play Chess Differently
- ST-GAN ST-GAN: Spatial Transformer Generative Adversarial Networks for Image Compositing
- StackGAN StackGAN: Text to Photo-realistic Image Synthesis with Stacked Generative Adversarial Networks (github)
- StainGAN StainGAN: Stain Style Transfer for Digital Histological Images

- StarGAN StarGAN: Unified Generative Adversarial Networks for Multi-Domain Image-to-Image Translation (github)
- StarGAN-VC StarGAN-VC: Non-parallel many-to-many voice conversion with star generative adversarial networks
- SteinGAN Learning Deep Energy Models: Contrastive Divergence vs. Amortized MLE
- StepGAN Improving Conditional Sequence Generative Adversarial Networks by Stepwise Evaluation
- Super-FAN Super-FAN: Integrated facial landmark localization and super-resolution of real-world low resolution faces in arbitrary poses with GANs
- SVSGAN SVSGAN: Singing Voice Separation via Generative Adversarial Network
- SWGAN Solving Approximate Wasserstein GANs to Stationarity
- SyncGAN SyncGAN: Synchronize the Latent Space of Cross-modal Generative Adversarial Networks
- S^2GAN Generative Image Modeling using Style and Structure Adversarial Networks
- T2Net T2Net: Synthetic-to-Realistic Translation for Solving Single-Image Depth Estimation Tasks
- table-GAN Data Synthesis based on Generative Adversarial Networks
- TAC-GAN TAC-GAN Text Conditioned Auxiliary Classifier Generative Adversarial Network (github)
- TAN Outline Colorization through Tandem Adversarial Networks
- tcGAN Cross-modal Hallucination for Few-shot Fine-grained Recognition
- TD-GAN Task Driven Generative Modeling for Unsupervised Domain Adaptation: Application to X-ray Image Segmentation
- tempCycleGAN Improving Surgical Training Phantoms by Hyperrealism: Deep Unpaired Imageto-Image Translation from Real Surgeries
- tempoGAN tempoGAN: A Temporally Coherent, Volumetric GAN for Super-resolution Fluid Flow
- TequilaGAN TequilaGAN: How to easily identify GAN samples
- Text2Shape Text2Shape: Generating Shapes from Natural Language by Learning Joint Embeddings
- textGAN Generating Text via Adversarial Training
- TextureGAN TextureGAN: Controlling Deep Image Synthesis with Texture Patches
- TGAN Temporal Generative Adversarial Nets
- TGAN Tensorizing Generative Adversarial Nets
- TGAN Tensor-Generative Adversarial Network with Two-dimensional Sparse Coding: Application to Real-time Indoor Localization
- TGANs-C To Create What You Tell: Generating Videos from Captions
- tiny-GAN Analysis of Nonautonomous Adversarial Systems
- TP-GAN Beyond Face Rotation: Global and Local Perception GAN for Photorealistic and Identity Preserving Frontal View Synthesis
- TreeGAN TreeGAN: Syntax-Aware Sequence Generation with Generative Adversarial Networks

- Triple-GAN Triple Generative Adversarial Nets
- tripletGAN TripletGAN: Training Generative Model with Triplet Loss
- TV-GAN TV-GAN: Generative Adversarial Network Based Thermal to Visible Face Recognition
- Twin-GAN Twin-GAN -- Unpaired Cross-Domain Image Translation with Weight-Sharing GANs
- UGACH Unsupervised Generative Adversarial Cross-modal Hashing
- UGAN Enhancing Underwater Imagery using Generative Adversarial Networks
- Unim2im Unsupervised Image-to-Image Translation with Generative Adversarial Networks (github)
- UNIT Unsupervised Image-to-image Translation Networks (github)
- Unrolled GAN Unrolled Generative Adversarial Networks (github)
- UT-SCA-GAN Spatial Image Steganography Based on Generative Adversarial Network
- UV-GAN UV-GAN: Adversarial Facial UV Map Completion for Pose-invariant Face Recognition
- VA-GAN Visual Feature Attribution using Wasserstein GANs
- VAC+GAN Versatile Auxiliary Classifier with Generative Adversarial Network (VAC+GAN), Multi Class Scenarios
- VAE-GAN Autoencoding beyond pixels using a learned similarity metric
- VariGAN Multi-View Image Generation from a Single-View
- VAW-GAN Voice Conversion from Unaligned Corpora using Variational Autoencoding Wasserstein Generative Adversarial Networks
- VEEGAN VEEGAN: Reducing Mode Collapse in GANs using Implicit Variational Learning (github)
- VGAN Generating Videos with Scene Dynamics (github)
- VGAN Generative Adversarial Networks as Variational Training of Energy Based Models (github)
- VGAN Text Generation Based on Generative Adversarial Nets with Latent Variable
- ViGAN Image Generation and Editing with Variational Info Generative Adversarial Networks
- VIGAN VIGAN: Missing View Imputation with Generative Adversarial Networks
- VoiceGAN Voice Impersonation using Generative Adversarial Networks
- VOS-GAN VOS-GAN: Adversarial Learning of Visual-Temporal Dynamics for Unsupervised Dense Prediction in Videos
- VRAL Variance Regularizing Adversarial Learning
- WaterGAN WaterGAN: Unsupervised Generative Network to Enable Real-time Color Correction of Monocular Underwater Images
- WaveGAN Synthesizing Audio with Generative Adversarial Networks
- WaveletGLCA-GAN Global and Local Consistent Wavelet-domain Age Synthesis
- weGAN Generative Adversarial Nets for Multiple Text Corpora
- WGAN Wasserstein GAN (github)
- WGAN-CLS Text to Image Synthesis Using Generative Adversarial Networks
- WGAN-GP Improved Training of Wasserstein GANs (github)
- WGAN-L1 Subsampled Turbulence Removal Network

- WS-GAN Weakly Supervised Generative Adversarial Networks for 3D Reconstruction
- X-GANs X-GANs: Image Reconstruction Made Easy for Extreme Cases
- XGAN XGAN: Unsupervised Image-to-Image Translation for many-to-many Mappings
- ZipNet-GAN ZipNet-GAN: Inferring Fine-grained Mobile Traffic Patterns via a Generative Adversarial Neural Network
- α-GAN Variational Approaches for Auto-Encoding Generative Adversarial Networks (github)
- β-GAN Annealed Generative Adversarial Networks
- Δ-GAN Triangle Generative Adversarial Networks