

Twitter Thread by Steven Edwards



Steven Edwards

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Time for #PapersThatMakeYouGoHmmm! A weekly summary of new ML papers from arXiv that make me think one or more of:

- 1. That looks useful!**
- 2. That's an interesting approach!**
- 3. A business could be built around this!**
- 4. How did they do that?!**

Argument Schemes and Dialogue for Explainable Planning

<https://t.co/il3fxAuOcF>

Neural Fitted Q Iteration based Optimal Bidding Strategy in Real Time Reactive Power Market_1

<https://t.co/rs7fJc8Sws>

A design of human-like robust AI machines in object identification

<https://t.co/m1Tfm1KYUI>

Single Shot Multitask Pedestrian Detection and Behavior Prediction

<https://t.co/S3tiOnHoRw>

Controlling Synthetic Characters in Simulations: A Case for Cognitive Architectures and Sigma

<https://t.co/mjqovCGUhi>

Data Poisoning Attacks to Deep Learning Based Recommender Systems

<https://t.co/FVr7Z9YiX1>

Self-Attention Based Context-Aware 3D Object Detection

<https://t.co/UcyP6lUr1V>

L2PF -- Learning to Prune Faster

<https://t.co/E1ipKSBFk3>

DeepPoison: Feature Transfer Based Stealthy Poisoning Attack

<https://t.co/B3beuwHBVD>

Robust Machine Learning Systems: Challenges, Current Trends, Perspectives, and the Road Ahead

<https://t.co/E9B8E4YZj6>

Explainable AI and Adoption of Algorithmic Advisors: an Experimental Study

<https://t.co/5Q98CpM89U>

Multimodal Gait Recognition for Neurodegenerative Diseases

<https://t.co/NkcrwgWfsT>

On the Management of Type 1 Diabetes Mellitus with IoT Devices and ML Techniques

<https://t.co/EGaHwpl6gC>

Compound Word Transformer: Learning to Compose Full-Song Music over Dynamic Directed Hypergraphs

<https://t.co/esweLNEoMb>

A Comprehensive Study on Optimization Strategies for Gradient Descent In Deep Learning

<https://t.co/DnyxRqxNRY>

Exploring Text-transformers in AAAI 2021 Shared Task: COVID-19 Fake News Detection in English

<https://t.co/NKpQ0gntHy>

Low-cost and high-performance data augmentation for deep-learning-based skin lesion classification

<https://t.co/NMcNvpRZt5>

StarNet: Gradient-free Training of Deep Generative Models using Determined System of Linear Equations

<https://t.co/23HkZdcPKe>

Adaptive Synthetic Characters for Military Training

<https://t.co/5xNFThJlWK>

The case for psychometric artificial general intelligence

<https://t.co/w1ZJNCAj39>

Artificial Intelligence Methods in In-Cabin Use Cases: A Survey

<https://t.co/6kFoUSuLpJ>

TextBox: A Unified, Modularized, and Extensible Framework for Text Generation

<https://t.co/u62zif51D8>

Off-Policy Meta-Reinforcement Learning Based on Feature Embedding Spaces

<https://t.co/ugJvIG7b3t>

Deep Reinforcement Learning with Quantum-inspired Experience Replay

<https://t.co/9TBKAAGMmO>

Socially Responsible AI Algorithms: Issues, Purposes, and Challenges

<https://t.co/58rbKCY9Ru>

Internet of Everything enabled solution for COVID-19, its new variants and future pandemics: Framework, Challenges, and Research Directions

<https://t.co/OgZKw3Cov6>

Deep Neural Network Based Relation Extraction: An Overview

<https://t.co/ISBG8c7UzQ>

AutoDropout: Learning Dropout Patterns to Regularize Deep Networks

<https://t.co/MuUG6LsPUF>

Theory-based Habit Modeling for Enhancing Behavior Prediction

<https://t.co/UZDtp2A83a>

Explainable AI for Robot Failures: Generating Explanations that Improve User Assistance in Fault Recovery

<https://t.co/Fcn2uVEslp>

On the Control of Attentional Processes in Vision

<https://t.co/B35B7Dk54K>

Stochastic Optimization for Vaccine and Testing Kit Allocation for the COVID-19 Pandemic

<https://t.co/CF6glQV2nW>

Analyzing movies to predict their commercial viability for producers

<https://t.co/VaEcSalJti>

A Survey of Community Detection Approaches: From Statistical Modeling to Deep Learning

<https://t.co/nKBRaA6the>

"Brilliant AI Doctor" in Rural China: Tensions and Challenges in AI-Powered CDSS Deployment

<https://t.co/Cix2rinBob>

Support Vector Machine and YOLO for a Mobile Food Grading System

<https://t.co/VmiOwRZ2gV>

To do or not to do: cost-sensitive causal decision-making

<https://t.co/9iDr9CogRJ>

Political Depolarization of News Articles Using Attribute-aware Word Embeddings

<https://t.co/EsOFDI97Q5>

Understanding the Ability of Deep Neural Networks to Count Connected Components in Images

<https://t.co/gUPQWJ6YEM>

Development of a Respiratory Sound Labeling Software for Training a Deep Learning-Based Respiratory Sound Analysis Model

<https://t.co/VLdratnPjD>

Learn by Guessing: Multi-Step Pseudo-Label Refinement for Person Re-Identification

<https://t.co/gTK15Nmoko>

Strategic Features for General Games

<https://t.co/4Yt3ZTKb8N>

Retrieving and Reading: A Comprehensive Survey on Open-domain Question Answering

<https://t.co/44WSpjKDZd>

Enhanced Pub/Sub Communications for Massive IoT Traffic with SARSA Reinforcement Learning

<https://t.co/UWla18td2P>

Sentiment Analysis for Open Domain Conversational Agent

<https://t.co/2EJqPRlvop>

If You're Happy, Then You Know It: The Logic of Happiness... and Sadness

<https://t.co/PJTcraD0K7>

An Ontology Design Pattern for representing Recurrent Situations

<https://t.co/7BWFJqKhBJ>

DVD: A Diagnostic Dataset for Multi-step Reasoning in Video Grounded Dialogue

<https://t.co/tZKVIvrWe>

Transformers in Vision: A Survey

<https://t.co/liP1MJY72v>

High-resolution land cover change from low-resolution labels: Simple baselines for the 2021 IEEE GRSS Data Fusion Contest

<https://t.co/G5sWF4GYiY>

Dynamic Knowledge Graphs as Semantic Memory Model for Industrial Robots

<https://t.co/PcfTq36heO>

Understanding Health Misinformation Transmission: An Interpretable Deep Learning Approach to Manage Infodemics

<https://t.co/nwLiRdGkBQ>

Anomaly Recognition from surveillance videos using 3D Convolutional Neural Networks

<https://t.co/LU634yUAYU>

Personal Privacy Protection via Irrelevant Faces Tracking and Pixelation in Video Live Streaming

<https://t.co/dL4GJw3y95>

Zombie Account Detection Based on Community Detection and Uneven Assignment PageRank

<https://t.co/VGkZKfM4ih>

How to Train Your Agent to Read and Write

<https://t.co/NJJreymjby>

Identifying centres of interest in paintings using alignment and edge detection: Case studies on works by Luc Tuymans

<https://t.co/sahwzV0akw>

Transformer-based Conditional Variational Autoencoder for Controllable Story Generation

<https://t.co/mQydI1yWtY>

Outline to Story: Fine-grained Controllable Story Generation from Cascaded Events

<https://t.co/GARbpQmbFA>

Fusion of Federated Learning and Industrial Internet of Things: A Survey

<https://t.co/ZoZD7WWSWa>

A Framework for Fast Scalable BNN Inference using Googlenet and Transfer Learning

<https://t.co/YC83Pv82kf>

Neural Networks for Keyword Spotting on IoT Devices

<https://t.co/aPwYWpM7vS>

AttnMove: History Enhanced Trajectory Recovery via Attentional Network

<https://t.co/qjt6g20nX9>

Privacy-sensitive Objects Pixelation for Live Video Streaming

<https://t.co/GwHljWYXqJ>

Few-shot Image Classification: Just Use a Library of Pre-trained Feature Extractors and a Simple Classifier

<https://t.co/ePVpLxTtsX>

End-to-End Training of Neural Retrievers for Open-Domain Question Answering

<https://t.co/2m9PzQnl65>

A Robust and Domain-Adaptive Approach for Low-Resource Named Entity Recognition

<https://t.co/cvKlwFmsWQ>

RiddleSense: Answering Riddle Questions as Commonsense Reasoning

<https://t.co/VPnK6TmMBY>

Identity-aware Facial Expression Recognition in Compressed Video

<https://t.co/9mNnzvWugT>

Iranis: A Large-scale Dataset of Farsi License Plate Characters

<https://t.co/taFXmeM6om>

Reader-Guided Passage Reranking for Open-Domain Question Answering

<https://t.co/2wt7nbg7ap>

CIZSL++: Creativity Inspired Generative Zero-Shot Learning

<https://t.co/jqsFZl6Bxa>

DISCOS: Bridging the Gap between Discourse Knowledge and Commonsense Knowledge

<https://t.co/WY8fldH1Un>

NeurIPS 2020 EfficientQA Competition: Systems, Analyses and Lessons Learned

<https://t.co/eDeIZrFx08>

EarlyBERT: Efficient BERT Training via Early-bird Lottery Tickets

<https://t.co/3omOhvBIQN>

Etat de l'art sur l'application des bandits multi-bras

<https://t.co/0zqsbla1ZF>

Binary Graph Neural Networks

<https://t.co/VZnSpSWJmp>

An automated machine learning-genetic algorithm (AutoML-GA) approach for efficient simulation-driven engine design optimization

<https://t.co/8pAjZDI9uZ>

CoachNet: An Adversarial Sampling Approach for Reinforcement Learning

<https://t.co/yibeyARmL3>

A Clinical Evaluation of a Low-Cost Strain Gauge Respiration Belt and Machine Learning to Detect Sleep Apnea

<https://t.co/7OQTeR0cBz>

MRNet: a Multi-scale Residual Network for EEG-based Sleep Staging

<https://t.co/KuKpdhWhkD>

Robust Text CAPTCHAs Using Adversarial Examples

<https://t.co/08spXMzEji>

Detecting Log Anomalies with Multi-Head Attention (LAMA)

<https://t.co/qXK049ht20>

Architectural Patterns for the Design of Federated Learning Systems

<https://t.co/MVHtYSIWjm>

Coding for Distributed Multi-Agent Reinforcement Learning

<https://t.co/t0Re9BrNHd>

Demand Forecasting for Platelet Usage: from Univariate Time Series to Multivariate Models

<https://t.co/qzrec6IDOG>

Handling many conversions per click in modeling delayed feedback

<https://t.co/ZrU0uhNPHT>

Teach me to play, gamer! Imitative learning in computer games via linguistic description of complex phenomena and decision tree

<https://t.co/uXGXX0WLAD>

Adversarial Machine Learning for 5G Communications Security

<https://t.co/ScIUq3PkIz>

From Learning to Relearning: A Framework for Diminishing Bias in Social Robot Navigation

<https://t.co/R7k3hDzJ5W>

Automatic identification of outliers in Hubble Space Telescope galaxy images

<https://t.co/4PafKjJNJl>

Learning a binary search with a recurrent neural network. A novel approach to ordinal regression analysis

<https://t.co/wthbFhJAlj>

RANK: AI-assisted End-to-End Architecture for Detecting Persistent Attacks in Enterprise Networks

<https://t.co/Gor8YavtJq>

Continuous Glucose Monitoring Prediction

<https://t.co/m6ufMRn9vm>

Phishing Attacks and Websites Classification Using Machine Learning and Multiple Datasets (A Comparative Analysis)

<https://t.co/FFvkJsN5m5>

MSED: a multi-modal sleep event detection model for clinical sleep analysis

<https://t.co/Ki9FU3eCTC>

A spin-glass model for the loss surfaces of generative adversarial networks

<https://t.co/k0zRhKrRFh>

Active learning for object detection in high-resolution satellite images

<https://t.co/ildobu8RWv>

RobustSleepNet: Transfer learning for automated sleep staging at scale

<https://t.co/SjB1zOJe9N>

Homonym Identification using BERT -- Using a Clustering Approach

<https://t.co/LcHjpCT4m4>

User Response Prediction in Online Advertising

<https://t.co/HvZKLMliJw>

COVID19-HPSMP: COVID-19 Adopted Hybrid and Parallel Deep Information Fusion Framework for Stock Price Movement Prediction

<https://t.co/vqvild1Jb>

User Ex Machina : Simulation as a Design Probe in Human-in-the-Loop Text Analytics

<https://t.co/2V5vFEojhL>

An Odor Labeling Convolutional Encoder-Decoder for Odor Sensing in Machine Olfaction

<https://t.co/geb8sFURyH>

Predicting Illness for a Sustainable Dairy Agriculture: Predicting and Explaining the Onset of Mastitis in Dairy Cows

<https://t.co/bEC6qAdAaS>

Attention-based Convolutional Autoencoders for 3D-Variational Data Assimilation

<https://t.co/XE226wSV7w>

Do We Really Need Deep Learning Models for Time Series Forecasting?

<https://t.co/s1muXDs5NJ>

Statistical learning for accurate and interpretable battery lifetime prediction

<https://t.co/gqLMDxZO7D>

3D Convolutional Selective Autoencoder For Instability Detection in Combustion Systems

<https://t.co/CjjRuGypAO>

The data synergy effects of time-series deep learning models in hydrology

<https://t.co/BnQMmqflwc>

Node2Seq: Towards Trainable Convolutions in Graph Neural Networks

<https://t.co/ChMZRx6lFe>

Risk markers by sex and age group for in-hospital mortality in patients with STEMI or NSTEMI: an approach based on machine learning

<https://t.co/dz61KNDgri>

The Interplay of Demographic Variables and Social Distancing Scores in Deep Prediction of U.S. COVID-19 Cases

<https://t.co/tyLUSSQRM4>

Model Extraction and Defenses on Generative Adversarial Networks

<https://t.co/swz4ZCHmgv>

Boarding House Renting Price Prediction Using Deep Neural Network Regression on Mobile Apps

<https://t.co/l7U7R7uv4B>

COVID-19: Comparative Analysis of Methods for Identifying Articles Related to Therapeutics and Vaccines without Using Labeled Data

<https://t.co/yEir3K29sV>

Comparing Classification Models on Kepler Data

<https://t.co/JZoxxWvywE>

Interspeech 2021 Deep Noise Suppression Challenge

<https://t.co/xaU6nRRtco>

Biosensors and Machine Learning for Enhanced Detection, Stratification, and Classification of Cells: A Review

<https://t.co/gJMrXaPGUD>

Deep Learning for Fast and Reliable Initial Access in AI-Driven 6G mmWave Networks

<https://t.co/kD7xrRcYNU>

Mesh Reconstruction from Aerial Images for Outdoor Terrain Mapping Using Joint 2D-3D Learning

<https://t.co/HwjjezqQyg>

A Review of Artificial Intelligence Technologies for Early Prediction of Alzheimer's Disease

<https://t.co/Ak0vrmyogD>

An A* Curriculum Approach to Reinforcement Learning for RGBD Indoor Robot Navigation

<https://t.co/R4dy1PCIfV>

Auto-Encoding Molecular Conformations

<https://t.co/21BhsA7GXw>

Adversarially trained LSTMs on reduced order models of urban air pollution simulations

<https://t.co/u44QNP35Rb>

Generating Informative CVE Description From ExploitDB Posts by Extractive Summarization

<https://t.co/PByu7o8tul>

Data-Driven Copy-Paste Imputation for Energy Time Series

<https://t.co/wPbr4eswsu>

One vs Previous and Similar Classes Learning -- A Comparative Study

<https://t.co/bCxer47W0s>

A Priori Generalization Analysis of the Deep Ritz Method for Solving High Dimensional Elliptic Equations

<https://t.co/k5xeSGhXxp>

Robust R-Peak Detection in Low-Quality Holter ECGs using 1D Convolutional Neural Network

<https://t.co/a9uL9mJuCC>

Learning the Predictability of the Future

<https://t.co/Y7yz6X2Mnr>

CASS: Towards Building a Social-Support Chatbot for Online Health Community

<https://t.co/MjmRThHMyX>

WildDeepfake: A Challenging Real-World Dataset for Deepfake Detection

<https://t.co/mbpItXkjMf>

Recurrent Neural Networks for Stochastic Control Problems with Delay

<https://t.co/TEcyk88BDz>

A Symmetric Loss Perspective of Reliable Machine Learning

<https://t.co/VTARzV3bnx>

Fixed-MAML for Few Shot Classification in Multilingual Speech Emotion Recognition

<https://t.co/WbqicxzG1V>

Integration of Domain Knowledge using Medical Knowledge Graph Deep Learning for Cancer Phenotyping

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Advances in Electron Microscopy with Deep Learning

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