Twitter Thread by 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/iI3fxAuOcF

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/m1Tfm1KYUl

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/mjqovCGUhj

Data Poisoning Attacks to Deep Learning Based Recommender Systems

https://t.co/FVr7Z9YiX1

Self-Attention Based Context-Aware 3D Object Detection

https://t.co/UcyP6IUr1V

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/EGaHwpI6gC

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/ugJvlG7b3t

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/Fcn2uVEsIp

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

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

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"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

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

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Political Depolarization of News Articles Using Attribute-aware Word Embeddings

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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

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

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Strategic Features for General Games

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

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

https://t.co/UWIa18td2P

Sentiment Analysis for Open Domain Conversational Agent

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

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An Ontology Design Pattern for representing Recurrent Situations

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

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Transformers in Vision: A Survey

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

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Dynamic Knowledge Graphs as Semantic Memory Model for Industrial Robots

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

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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 Assignation 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

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Transformer-based Conditional Variational Autoencoder for Controllable Story Generation

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

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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

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AttnMove: History Enhanced Trajectory Recovery via Attentional Network

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Privacy-sensitive Objects Pixelation for Live Video Streaming

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

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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

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RiddleSense: Answering Riddle Questions as Commonsense Reasoning

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Identity-aware Facial Expression Recognition in Compressed Video

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

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Reader-Guided Passage Reranking for Open-Domain Question Answering

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CIZSL++: Creativity Inspired Generative Zero-Shot Learning

https://t.co/jqsFZI6Bxa

DISCOS: Bridging the Gap between Discourse Knowledge and Commonsense Knowledge

https://t.co/WY8fldH1Un

NeurIPS 2020 EfficientQA Competition: Systems, Analyses and Lessons Learned

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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/8pAjZDl9uZ

CoachNet: An Adversarial Sampling Approach for Reinforcement Learning

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

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

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Robust Text CAPTCHAs Using Adversarial Examples

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Detecting Log Anomalies with Multi-Head Attention (LAMA)

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Architectural Patterns for the Design of Federated Learning Systems

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Coding for Distributed Multi-Agent Reinforcement Learning

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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

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

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Adversarial Machine Learning for 5G Communications Security

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

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Automatic identification of outliers in Hubble Space Telescope galaxy images

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

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

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Continuous Glucose Monitoring Prediction

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

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

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

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Active learning for object detection in high-resolution satellite images

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RobustSleepNet: Transfer learning for automated sleep staging at scale

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Homonym Identification using BERT -- Using a Clustering Approach

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User Response Prediction in Online Advertising

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

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

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

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

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

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3D Convolutional Selective Autoencoder For Instability Detection in Combustion Systems

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

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Node2Seq: Towards Trainable Convolutions in Graph Neural Networks

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

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

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Model Extraction and Defenses on Generative Adversarial Networks

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

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Comparing Classification Models on Kepler Data

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Interspeech 2021 Deep Noise Suppression Challenge

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

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

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

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Auto-Encoding Molecular Conformations

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

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Generating Informative CVE Description From ExploitDB Posts by Extractive Summarization

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Data-Driven Copy-Paste Imputation for Energy Time Series

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

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

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

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