Twitter Thread by Steven Edwards





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?!

Integrating prediction in mean-variance portfolio optimization

https://t.co/QWaryyQzam

Corporate Social Responsibility and Corporate Governance: A cognitive approach

https://t.co/7S7MkxrJEH

The Gender Pay Gap Revisited with Big Data: Do Methodological Choices Matter?

https://t.co/ykUEv6isZQ

Sustainable and Resilient Systems for Intergenerational Justice

https://t.co/1pPKDEh85z

A Core of E-Commerce Customer Experience based on Conversational Data using Network Text Methodology

https://t.co/2CgOY7mZH9

Deep Learning for Market by Order Data

https://t.co/Nzs544G9ST

https://t.co/UxdJQn9HKg
On Technical Trading and Social Media Indicators in Cryptocurrencies' Price Classification Through Deep Learning
https://t.co/f53jC2V5cz
LATE for History
https://t.co/ILy6UBfMvc
Supportive 5G infrastructure policies are essential for universal 6G: Evidence from an open-source techno-economic simulation model using remote sensing
https://t.co/1WMHwXyhtT
Integrating Floor Plans into Hedonic Models for Rent Price Appraisal
https://t.co/01tmCxtBpg
Personality Traits and the Marriage Market
https://t.co/JiXL2IJPxd
Time-varying properties of asymmetric volatility and multifractality in Bitcoin
https://t.co/rTtGE7PUe8
REST: Relational Event-driven Stock Trend Forecasting
https://t.co/FDAoNZgxNd
How Misuse of Statistics Can Spread Misinformation: A Study of Misrepresentation of COVID-19 Data
https://t.co/yisQnqgax1
Aggregate Modeling and Equilibrium Analysis of the Crowdsourcing Market for Autonomous Vehicles
https://t.co/VVnZYkLenh
The corruptive force of Al-generated advice

The economic dependency of the Bitcoin security

https://t.co/JxplsShpnJ

The Golden Age of the Mathematical Finance
https://t.co/5UWtrMLuFX
Deep Reinforcement Learning for Portfolio Optimization using Latent Feature State Space (LFSS) Module
https://t.co/9210MxNh8Y
Hedging of Financial Derivative Contracts via Monte Carlo Tree Search
https://t.co/Zrj7YsDivl
Optimising Long-Term Outcomes using Real-World Fluent Objectives: An Application to Football
https://t.co/ArOFaGcolK
SLAKE: A Semantically-Labeled Knowledge-Enhanced Dataset for Medical Visual Question Answering
https://t.co/587J7vurn6
Clockwork Variational Autoencoders for Video Prediction
https://t.co/CnLG5iFFCv
Gifsplanation via Latent Shift: A Simple Autoencoder Approach to Progressive Exaggeration on Chest X-rays
https://t.co/fwycwMG0We
Fake News Detection: a comparison between available Deep Learning techniques in vector space
https://t.co/jGPmEwwKnU
ELIXIR: Learning from User Feedback on Explanations to Improve Recommender Models
https://t.co/Vq6GK26YUm
L2E: Learning to Exploit Your Opponent
https://t.co/mj1wN8FwVd
A Study on the Manifestation of Trust in Speech

https://t.co/GiE4b80x7R

Al Can Stop Mass Shootings, and More
https://t.co/zfHlij5ZNz
Reinforcement Learning for Datacenter Congestion Control
https://t.co/3egxwyn3Td
FIXME: Enhance Software Reliability with Hybrid Approaches in Cloud
https://t.co/brnJt0lTk6
Training Microsoft News Recommenders with Pretrained Language Models in the Loop
https://t.co/OEa0iH5JFo
Unsupervised Clustering of Time Series Signals using Neuromorphic Energy-Efficient Temporal Neural Networks
https://t.co/ZhrOxKJx7W
From Extreme Multi-label to Multi-class: A Hierarchical Approach for Automated ICD-10 Coding Using Phrase-level Attention
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Entity-level Factual Consistency of Abstractive Text Summarization
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Deep Learning Approaches for Forecasting Strawberry Yields and Prices Using Satellite Images and Station-Based Soil Parameters
https://t.co/quFFINIoVd
Towards AlOps in Edge Computing Environments
https://t.co/Bq1vusI0jJ

BEDS: Bagging ensemble deep segmentation for nucleus segmentation with testing stage stain augmentation
https://t.co/j19fLyb9Oz
Genetically Optimized Prediction of Remaining Useful Life
https://t.co/J9vxC5PNRI
An Objective Laboratory Protocol for Evaluating Cognition of Non-Human Systems Against Human Cognition
https://t.co/g3qsoxcZKt
Knowledge discovery from emergency ambulance dispatch during COVID-19: A case study of Nagoya City, Japan
https://t.co/oh7Qm5F7i0
Towards an Al Coach to Infer Team Mental Model Alignment in Healthcare
https://t.co/mG86vPY2pI
Towards the Right Kind of Fairness in Al
https://t.co/BE20tyAGpf
Sparsely Factored Neural Machine Translation
https://t.co/sZDUaCIW1X
I Want This Product but Different : Multimodal Retrieval with Synthetic Query Expansion
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A Graph Neural Network to Model User Comfort in Robot Navigation
https://t.co/oq35Ada9gS
Using exoskeletons to assist medical staff during prone positioning of mechanically ventilated COVID-19 patients: a pilot study
https://t.co/sTUIYEztwW
Autonomous Navigation in Dynamic Environments: Deep Learning-Based Approach
https://t.co/XViAqjhCwJ

Formation of Social Ties Influences Food Choice: A Campus-Wide Longitudinal Study
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ACTA: A Mobile-Health Solution for Integrated Nudge-Neurofeedback Training for Senior Citizens
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Fully General Online Imitation Learning
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Temporal Memory Attention for Video Semantic Segmentation
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On the Post-hoc Explainability of Deep Echo State Networks for Time Series Forecasting, Image and Video Classification
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Beyond Fully-Connected Layers with Quaternions: Parameterization of Hypercomplex Multiplications with \$1/n\$ Parameters
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Ensemble Transfer Learning of Elastography and B-mode Breast Ultrasound Images
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Mode-Assisted Joint Training of Deep Boltzmann Machines
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Integrating Pre-trained Model into Rule-based Dialogue Management
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Reward Poisoning in Reinforcement Learning: Attacks Against Unknown Learners in Unknown Environments
https://t.co/V7cvV7ImjK
TableLab: An Interactive Table Extraction System with Adaptive Deep Learning
https://t.co/x431QLmZIU

A Cooperative Memory Network for Personalized Task-oriented Dialogue Systems with Incomplete User Profiles
https://t.co/p9nFs0U9me
The Yin-Yang dataset
https://t.co/L1yG0OWPHX
Music Harmony Generation, through Deep Learning and Using a Multi-Objective Evolutionary Algorithm
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ResNet-LDDMM: Advancing the LDDMM Framework Using Deep Residual Networks
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GraphGallery: A Platform for Fast Benchmarking and Easy Development of Graph Neural Networks Based Intelligent Software
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Engineering Education in the Age of Autonomous Machines
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What Do We Want From Explainable Artificial Intelligence (XAI)? A Stakeholder Perspective on XAI and a Conceptual Model Guiding Interdisciplinary XAI Research
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Hierarchical VAEs Know What They Don't Know
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An AutoML-based Approach to Multimodal Image Sentiment Analysis
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Boosting Deep Transfer Learning for COVID-19 Classification
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Steadily Learn to Drive with Virtual Memory

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On the use of generative deep neural networks to synthesize artificial multichannel EEG signals
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EDITH :ECG biometrics aided by Deep learning for reliable Individual auTHentication
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Training Stacked Denoising Autoencoders for Representation Learning
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TransFuse: Fusing Transformers and CNNs for Medical Image Segmentation
https://t.co/SARCnpNwAg
Training Larger Networks for Deep Reinforcement Learning
https://t.co/gzAKBfNcdS
Anomalous Sound Detection with Machine Learning: A Systematic Review
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How RL Agents Behave When Their Actions Are Modified
https://t.co/lrc27s8s7S

Diverse Auto-Curriculum is Critical for Successful Real-World Multiagent Learning Systems

Jira: a Kurdish Speech Recognition System Designing and Building Speech Corpus and Pronunciation Lexicon

Player-Centered AI for Automatic Game Personalization: Open Problems

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Al Ethics Needs Good Data
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Why Talking about ethics is not enough: a proposal for Fintech's AI ethics
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Sequential Recommendation in Online Games with Multiple Sequences, Tasks and User Levels
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Fast End-to-End Speech Recognition via a Non-Autoregressive Model and Cross-Modal Knowledge Transferring from BERT
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CHARET: Character-centered Approach to Emotion Tracking in Stories
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DAC: Deep Autoencoder-based Clustering, a General Deep Learning Framework of Representation Learning
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Reinforcement Learning for IoT Security: A Comprehensive Survey
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Resilient Machine Learning for Networked Cyber Physical Systems: A Survey for Machine Learning Security to Securing Machine Learning for CPS
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Domain Adversarial Reinforcement Learning
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Learning Intents behind Interactions with Knowledge Graph for Recommendation
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Adversarial defense for automatic speaker verification by cascaded self-supervised learning models

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PAQ: 65 Million Probably-Asked Questions and What You Can Do With Them
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Multi-class Generative Adversarial Nets for Semi-supervised Image Classification
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VitrAl Applying Explainable Al in the Real World
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Rethinking Eye-blink: Assessing Task Difficulty through Physiological Representation of Spontaneous Blinking https://t.co/QjI0MJ5Vf7 Exploiting Spline Models for the Training of Fully Connected Layers in Neural Network https://t.co/uKVPq84EfT Improving Object Detection in Art Images Using Only Style Transfer https://t.co/pXbPIx0jQu Transformer Language Models with LSTM-based Cross-utterance Information Representation https://t.co/RlboGXdizN A Decentralized Approach Towards Responsible AI in Social Ecosystems https://t.co/x4VivBrgwH DEEPF0: End-To-End Fundamental Frequency Estimation for Music and Speech Signals https://t.co/eKGz0hAxXO Therapeutics Data Commons: Machine Learning Datasets and Tasks for Therapeutics https://t.co/wAHnPiA6wC A Machine Learning model of the combination of normalized SD1 and SD2 indexes from 24h-Heart Rate Variability as a predictor of myocardial infarction https://t.co/8LEjDbAXNp Recurrent Rational Networks https://t.co/QsVaicMeu2 Robust PDF Document Conversion Using Recurrent Neural Networks https://t.co/GmRrxe5Qiv VAE Approximation Error: ELBO and Conditional Independence https://t.co/fTzOCBiLWX

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Less is More: Pre-training a Strong Siamese Encoder Using a Weak Decoder
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Improving Hierarchical Adversarial Robustness of Deep Neural Networks
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Domain Adaptation for Medical Image Analysis: A Survey
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Regular Expressions for Fast-response COVID-19 Text Classification
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NFCNN: Toward a Noise Fusion Convolutional Neural Network for Image Denoising
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A Comprehensive Review of Deep Learning-based Single Image Super-resolution
https://t.co/fsork7CxTr

Dynamic Memory based Attention Network for Sequential Recommendation
https://t.co/o9t1FXypki
Sparse-Interest Network for Sequential Recommendation
https://t.co/MS5CI0w4LL
ADOM: Accelerated Decentralized Optimization Method for Time-Varying Networks
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Deep Neural Networks based Invisible Steganography for Audio-into-Image Algorithm
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Quiz-Style Question Generation for News Stories
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TapNet: The Design, Training, Implementation, and Applications of a Multi-Task Learning CNN for Off-Screen Mobile Input
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Towards Adversarial-Resilient Deep Neural Networks for False Data Injection Attack Detection in Power Grids
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End-to-end learnable EEG channel selection with deep neural networks
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Accelerated Simulations of Molecular Systems through Learning of their Effective Dynamics
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Variational Autoencoder for Speech Enhancement with a Noise-Aware Encoder
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CheXternal: Generalization of Deep Learning Models for Chest X-ray Interpretation to Photos of Chest X-rays and External Clinical Settings
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Interpretable COVID-19 Chest X-Ray Classification via Orthogonality Constraint
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Machine Learning Based Cyber Attacks Targeting on Controlled Information: A Survey
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Self-Supervised Features Improve Open-World Learning
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Machine Learning Methods for the Design and Operation of Liquid Rocket Engines Research Activities at the DLR Institute of Space Propulsion
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Self-Reorganizing and Rejuvenating CNNs for Increasing Model Capacity Utilization
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Machine Learning for Mechanical Ventilation Control

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Towards automatic extraction and validation of on-street parking spaces using park-out events data

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Neural Network Libraries: A Deep Learning Framework Designed from Engineers' Perspectives

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Detection and severity classification of COVID-19 in CT images using deep learning
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Generating 3D structures from a 2D slice with GAN-based dimensionality expansion
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Accelerating COVID-19 research with graph mining and transformer-based learning
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Query-by-Example Keyword Spotting system using Multi-head Attention and Softtriple Loss
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Saliency-Aware Class-Agnostic Food Image Segmentation

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Representing Alzheimer's Disease Progression via Deep Prototype Tree

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VIPPrint: A Large Scale Dataset of Printed and Scanned Images for Synthetic Face Images Detection and Source Linking

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INSTA-YOLO: Real-Time Instance Segmentation

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DeepGLEAM: a hybrid mechanistic and deep learning model for COVID-19 forecasting

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A model for traffic incident prediction using emergency braking data

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MetaGrad: Adaptation using Multiple Learning Rates in Online Learning

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Cockpit: A Practical Debugging Tool for Training Deep Neural Networks

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Neural Architecture Search as Program Transformation Exploration

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Universal Adversarial Perturbations Through the Lens of Deep Steganography: Towards A Fourier Perspective

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