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B-CNN: Branch Convolutional Neural Network for Hierarchical Classification

Xinqi Zhu, Michael Bain • Computer Science • ArXiv • 28 September 2017

TLDR This paper introduces a variant of the traditional CNN model named the Branch Convolutional Neural Network (B-CNN), and shows that CNN based models can be forced to learn successively coarse to fine concepts in the internal layers at the output stage, and that hierarchical prior knowledge can be adopted to boost CNN models' classification performance. Expand

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Approximated Bilinear Modules for Temporal Modeling

Xinqi Zhu, Chang Xu, Langwen Hui, Cewu Lu, D. Tao • Computer Science • IEEE/CVF International Conference on Computer... • 1 October 2019

TLDR It is shown how two-layer subnets in CNNs can be converted to temporal bilinear modules by adding an auxiliary-branch, and snippet sampling and shifting inference are introduced to boost sparse-frame video classification performance. Expand

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Learning Disentangled Representations with Latent Variation Predictability

Xinqi Zhu, Chang Xu, D. Tao • Computer Science • ECCV • 25 July 2020

TLDR The proposed variation predictability is a general constraint that is applicable to the VAE and GAN frameworks for boosting disentangled latent representations and correlates well with existing ground-truth-required metrics and the proposed algorithm is effective for disentanglement learning. Expand

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Where and What? Examining Interpretable Disentangled Representations

Xinqi Zhu, Chang Xu, D. Tao • Computer Science • ArXiv • 7 April 2021

TLDR On various datasets, the authors' models can learn high-quality disentangled representations without supervision, showing the proposed modeling of interpretability is an effective proxy for achieving unsupervised disentanglement. Expand

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Commutative Lie Group VAE for Disentanglement Learning

Xinqi Zhu, Chang Xu, D. Tao • Computer Science • ICML • 7 June 2021

TLDR This work proposes to encode the data variations with groups, a structure that not only can equivariantly represent variations, but can also be adaptively optimized to preserve the properties of data variations. Expand

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