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action recognition
task, not all video
frames contain

salient patterns to
discriminate

between differen- t
classes of actions.

Many spatio-
temporal

descriptors, such as
3D-SIFT and

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HoGHoF, have been proposed to localize and encode the salient spatio-temporal points.

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based on abstract interpretation. We present several abstract

transformers which balance efficiency with precision and show these can be used to train large neural networks that are certifiably robust to adversarial perturbations. 1.

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Recognition Xiang

Cheng^{1;2,3},

Yunzhe Hao,

Jiaming Xu^{1;2} and

Bo Xu^{1;2,3,4}

¹Institute of

Automation,

Chinese Academy

of Sciences

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China ²Research

Center for Brain-

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equations are

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challenging to solve numerically and are important to

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entire neural

networks [5, 4, 38,

46, 21]. To search

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convolutional

neural networks

(CNNs) [20],

typical approaches

apply RL to

optimize the

searching policy to

discover ar-

chitectures [1, 5,

46, 31]. Baker et al.

[1] trained a learn-

ing agent by Q-

learning to

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CNN layers. Zoph and Le [46] utilized long short-term memory

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trajectory tracking,
A. S. Poznyak, E. N.
Sanchez and W. Yu,
World Scientific,
2001, 410 pages,
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