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we have created an approximation of the cutting function the squashing function by using sigmoid functions with good analytical properties like simple derivatives fast convergence and

jul 23 2025   a threshold activation function or simply the activation function also known as squashing function results in an output signal only when an input signal exceeding a specific

the most common type of transformation where this matters is the use of a squashing function squashing functions such as the logistic transform are often used to convert an unbounded

the paper demonstrates that any neural net with a single layer of sufficient number of nodes where the activation

function is a squashing function is a universal approximator

in this paper we explain the empirical success of squashing functions by showing that the formulas describing this family follow from natural symmetry requirements index terms multi

in this paper we propose a method to solve the optimal control problem with control bounds through a squashing function i e a sigmoid which is bounded by construction

squashing activations are good for ensuring numerical stability since we know the magnitude of the outputs will always be constrained however when the inputs are too large in magnitude

in practice many different squashing functions are used kosko and taber for example suggest the use of a simple binary function but more complex functions are possible as well however

for classification we often use a squashed linear function of the form where f is an activation function which is a function from real numbers into 0 1 using a squashed linear function to

oct 17 2020 these experiments and the conducted benchmarks have proven that the use of squashing functions is possible and similar in performance to conventional activation functions

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