

Equivariant Cohomology University Of California Berkeley

10. Equivariant Neural Networks # The previous chapter Input Data & Equivariances discussed data transformation and network architecture decisions that can be made to make a neural network ... Equivariant maps generalize the concept of invariants, functions whose value is unchanged by a symmetry transformation of their argument. The value of an equivariant map is often (imprecisely) called an ... May 15, 2022 · We explain equivariant neural networks, a notion underlying breakthroughs in machine learning from deep convolutional neural networks for computer vision to AlphaFold 2 for protein ... Aug 31, 2025 · More generally, an equivariant morphism is a homomorphism of G - actions. 2. Related concepts intertwiner equivariance equivariant structure equivariant cohomology equivariant homotopy ... Nov 7, 2023 · This blog post gives an introduction to equivariant neural networks. It explains what they are, why they are relevant and how they are constructed. Jun 2, 2025 · Equivariant architectures embed symmetry principles into neural networks to boost efficiency, generalization, and robustness across vision, physics, and more. Oct 6, 2025 · Equivariant neural nets leverage ideas from group representation theory and express all variables in the generalized Fourier space corresponding to the underlying group. In this article, we ... May 21, 2025 · Equivariant neural networks are deeply connected to group theory. A group G is a set equipped with an operation $*$ satisfying closure, associativity, identity, and invertibility. Lek-Heng Lim and Bradley J. Nelson We explain equivariant neural networks, a notion under-lying breakthroughs in machine learning from deep con-volutional neural networks for computer vision ... The same-equivariant is, to me, the same as equivariant in its most mundane version, in that it varies "in the same manner" (and the one often inappropriately called invariant).

Equivariant map - Wikipedia

[2205.07362] What is an equivariant neural network? - arXiv.org
equivariant in nLab - ncatlab.org

What is the difference between "equivariant to translation" and ...

an Equivariant Neural Network? - University of Chicago

10. Equivariant Neural Networks — deep learning for molecules

Equivariant neural networks - what, why and how? | Maurice Weiler

The principles behind equivariant neural networks for physics and

...

Equivariant Neural Networks (ENNs) - jamesmcguigan.com

Equivariant Architectures Overview - emergentmind.com

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