Why

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Definition

A *neural conditional distribution family* (or *deep conditional distribution family*) is a paramaterized conditional distribution family whose parameterizer is a neural network.

We similarly define a *neural latent geneneration family* (or *deep latent generation family*) and more generally for *neural distribution graphs* (or *deep distribution graphs*).

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[1]Future editions will include.

Neural Distribution Families

Latent Generation Pairs

Parameterized Distribution Graphs

Parameterized Distributions

Distribution Families

Probability Densities

Real Integrals

Neural Networks

Distribution Graphs

Nonnegative Integrals

Real Matrices

Matrix-Vector Products

Directed Graph Distributions

Simple Integrals

Matrices

Linear Combinations

Hidden Memory Chains

Measurable Functions

Vectors

Memory Chains

Rooted Tree Distributions

Measure

N-Dimensional Space

Conditional Distributions

Extended Real Numbers

Distance

Conditional Event Probability

Marginal Distributions

Real Limits

Space Distance

Event Probabilities

Joint Distributions

Simple Functions

Absolute Value

Plane Distance

Regressors

Probability Distributions

Rooted Trees

Function Graphs

Real Functions

Interval Length

Inductors

Trees

Directed Graphs

Intervals

Datasets

Real Line

Real Plane

Real Space

Real Sequences

Undirected Paths

Integral Line

Real Order

Sequences

Real Summation

Undirected Graphs

Fields

Geometry

Real Numbers

Set Numbers

Groups

Rational Numbers

Direct Products

Sigma Algebras

Integer Additive Inverse

Integer Arithmetic

Fields Sets

Integer Sums

Inverse Elements

Natural Additive Identity

Natural Multiplicative Identity

Natural Summation

Element Function

Identity Elements

Arithmetic

Family Operations

Equivalent Sets

Subset Algebras

Set Operations

Algebras

Integer Products

Natural Powers

Function Inverse

Families

Family Unions and Intersection

Cardinality

Operations

Integer Numbers

Natural Products

Function Images

Function Composites

Natural Sums

Functions

Equivalence Relations

Natural Order

Recursion Theorem

Relations

Subset Systems

Characteristic Functions

Set Products

Peano Axioms

Uncertain Outcomes

Ordered Pairs

Set Powers

Natural Induction

Natural Numbers

Unordered Triples

Generalized Set Dualities

Set Symmetric Differences

Successor Sets

Set Dualities

Intersection of Empty Set

Partitions

Set Unions and Intersections

Set Complements

Pair Unions

Set Intersections

Set Differences

Set Unions

Pair Intersections

Unordered Pairs

Empty Set

Set Specification

Set Inclusion

Standardized Accounts

Accounts

Deduction

Quantified Statements

Logical Statements

Statements

Sets

Identities

Names

Letters

Objects