Why

Can we define a density that factors according to a tree similar to how we defined a distribution that factors according to a tree?

Rooted Tree Densities

Conditional Densities

Marginal Densities

Multivariate Real Densities

N-Dimensional Space

Probability Densities

Distance

Real Integrals

Nonnegative Integrals

Simple Integrals

Measurable Functions

Measures

Rooted Tree Distributions

Sigma Algebras

Conditional Distributions

Real Series

Extended Real Numbers

Conditional Event Probabilities

Marginal Distributions

Space Distance

Real Limits

Event Probabilities

Joint Distributions

Plane Distance

Simple Functions

Absolute Value

Probability Distributions

Interval Length

Real Functions

Real Space

Intervals

Outcome Probabilities

Real Plane

Real Line

Integral Line

Real Order

Real Sequences

Real Summation

Rooted Trees

Geometry

Rational Order

Real Numbers

Subset Algebras

Sequences

Natural Summation

Trees

Directed Graphs

Rational Numbers

Cardinality

Lists

Undirected Paths

Integer Arithmetic

Set Numbers

Direct Products

Undirected Graphs

Integer Products

Natural Additive Identity

Natural Multiplicative Identity

Finite Sets

Arithmetic

Identity Elements

Operations

Uncertain Events

Equivalent Sets

Family Operations

Integer Order

Comparisons

Integer Sums

Natural Powers

Family Unions and Intersections

Orders

Integer Numbers

Natural Products

Converse Relations

Equivalence Relations

Function Inverses

Families

Natural Sums

Natural Order

Function Composites

Function Images

Recursion Theorem

Relations

Functions

Peano Axioms

Uncertain Outcomes

Natural Induction

Characteristic Functions

Ordered Pair Projections

Set Products

Subset Systems

Generalized Set Dualities

Natural Numbers

Set Powers

Ordered Pairs

Partitions

Successor Sets

Intersection of Empty Set

Unordered Triples

Set Symmetric Differences

Set Dualities

Set Unions and Intersections

Set Intersections

Pair Unions

Set Complements

Set Differences

Set Unions

Pair Intersections

Unordered Pairs

Empty Set

Set Specification

Set Equality

Set Inclusion

Deductions

Quantified Statements

Logical Statements

Statements

Sets

Identities

Names

Letters

Objects