Why

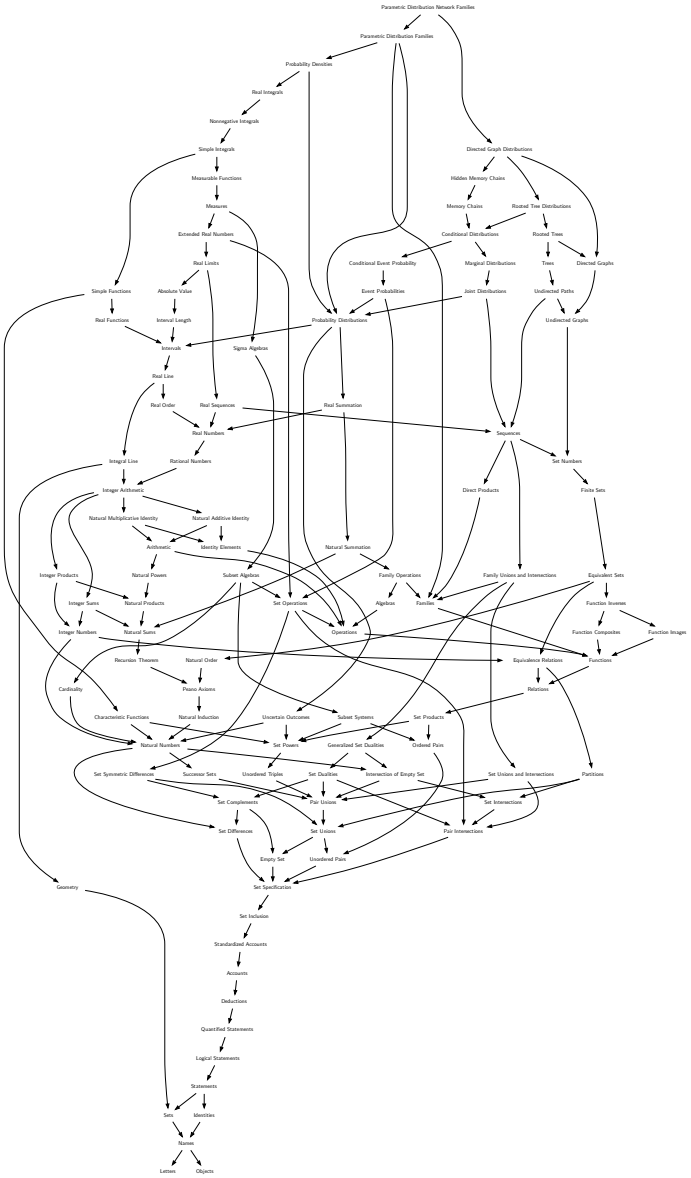
[1]

Definition

Let G be a directed graph on $\{1, \ldots, n\}$. A *parameteric conditional distribution network family* is a family of conditional distribution networks $\{G, \{g_i^{(\theta)}\}_{i=1}^n\}_{\theta \in \Theta}$. We call the index set Θ the *parameter set*. G does not depend on the parameters.

In the case that $\text{pa}_i = \varnothing$ in G, $\{g_i^{(\theta)}\}_\theta$ is a parametric distribution family on A_i and in the case that $\text{pa}_i \neq \varnothing$, $\{g_i^{(\theta)}\}_\theta$ is a parametric conditional distribution family on A_i from $\prod_{j \in \text{pa}_i} A_j$ (for both these terms, see Parametric Distribution Families).

[1] Future editions will include.


Parametric Distribution Network Families
Parametric Distribution Families
Probability Densities
Real Integrals
Nonnegative Integrals
Simple Integrals
Directed Graph Distributions
Measurable Functions
Hidden Memory Chains
Measures
Memory Chains
Rooted Tree Distributions
Extended Real Numbers
Conditional Distributions
Rooted Trees
Real Limits
Conditional Event Probability
Marginal Distributions
Trees
Directed Graphs
Simple Functions
Absolute Value
Event Probabilities
Joint Distributions
Undirected Paths
Real Functions
Interval Length
Probability Distributions
Undirected Graphs
Intervals
Signed Algebras
Real Line
Real Order
Real Sequences
Real Summation
Real Numbers
Sequences
Integral Line
Rational Numbers
Set Numbers
Integer Arithmetic
Direct Products
Finite Sets
Natural Multiplicative Identity
Natural Additive Identity
Arithmetic
Identity Elements
Natural Summation
Integer Products
Natural Powers
Subset Algebras
Family Operations
Family Unions and Intersections
Equivalent Sets
Integer Sums
Natural Products
Set Operations
Algebras
Families
Function Inverses
Integer Numbers
Natural Sums
Operations
Function Composites
Function Images
Recursion Theorem
Natural Order
Equivalence Relations
Functions
Cardinality
Peano Axioms
Relations
Characteristic Functions
Natural Induction
Uncertain Outcomes
Subset Systems
Set Products
Natural Numbers
Set Powers
Generalized Set Dualities
Ordered Pairs
Set Symmetric Differences
Successor Sets
Unordered Triples
Set Dualities
Intersection of Empty Set
Set Unions and Intersections
Partitions
Set Complements
Pair Unions
Set Intersections
Set Differences
Set Unions
Pair Intersections
Empty Set
Unordered Pairs
Geometry
Set Specification
Set Inclusion
Standardized Accounts
Accounts
Deductions
Quantified Statements
Logical Statements
Statements
Sets
Identities
Names
Lenses
Objects