We propose a new representation of Boolean and multiple-valued functions.

Representation of Boolean Functions
- Cube Calculus (Roth, Karp, Espresso)
- Binary Decision Diagrams (Bryant)
- Partition Calculus and Rough Paritions (Luba)
- Cube Diagram Bundles (this paper)

Advantages of CDBs:

1. Good to represent strongly unspecified functions.
2. Can read input cubes incrementally.
3. All operations are reduced to set-theoretical operations on arbitrary Decision Diagrams,
   We use BDDs in this implementation.
4. Uniform representation of binary and mv functions
5. Can add functions and variables incrementally during synthesis.
6. Every variable can have arbitrary number of values
   - Machine Learning applications.
7. The concept of Generalized Don’t Cares.