Mixed-Signal Circuit Specification
Binning Based on Digitally Coded Indirect Measurements
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IC Production Binning
- Reuse of non-optimal ICs
- Production profit
- Cost reduction
- Happy customer

Binning Phase Proposal
Training Phase
- Sample generation:
  - MC simulation
  - Production data
- Specification bins encoded using Octrees.
- May be computationally intense but it only needs to be computed once.

Binning Phase
- Based on a set of indirect circuit measures.
- Octree data structure is evaluated to bin the candidate circuits.
- Time efficient.

Encoding and Binning Decision
Octree Generation and Evaluation Procedure

Bin Misclassification
What do we pay off?

Biquad Filter Case Study

Octrees and SVM Classifiers Comparison

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