

Workflow of use of Response surface assisted method for utilization of datasets with each parameter measured using multiple independent features

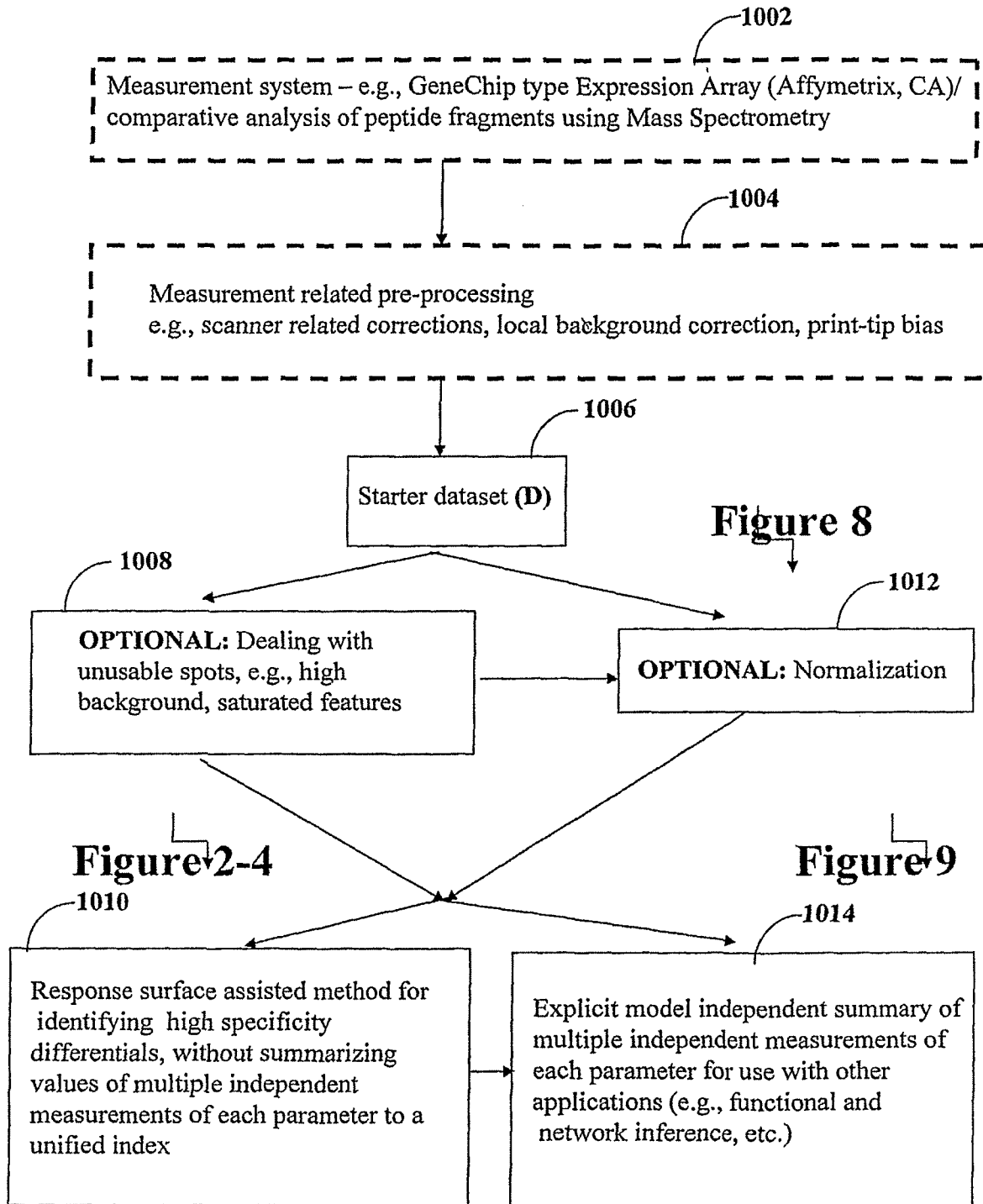


Figure 1

Optimum response surface criteria for identifying differentials - outline

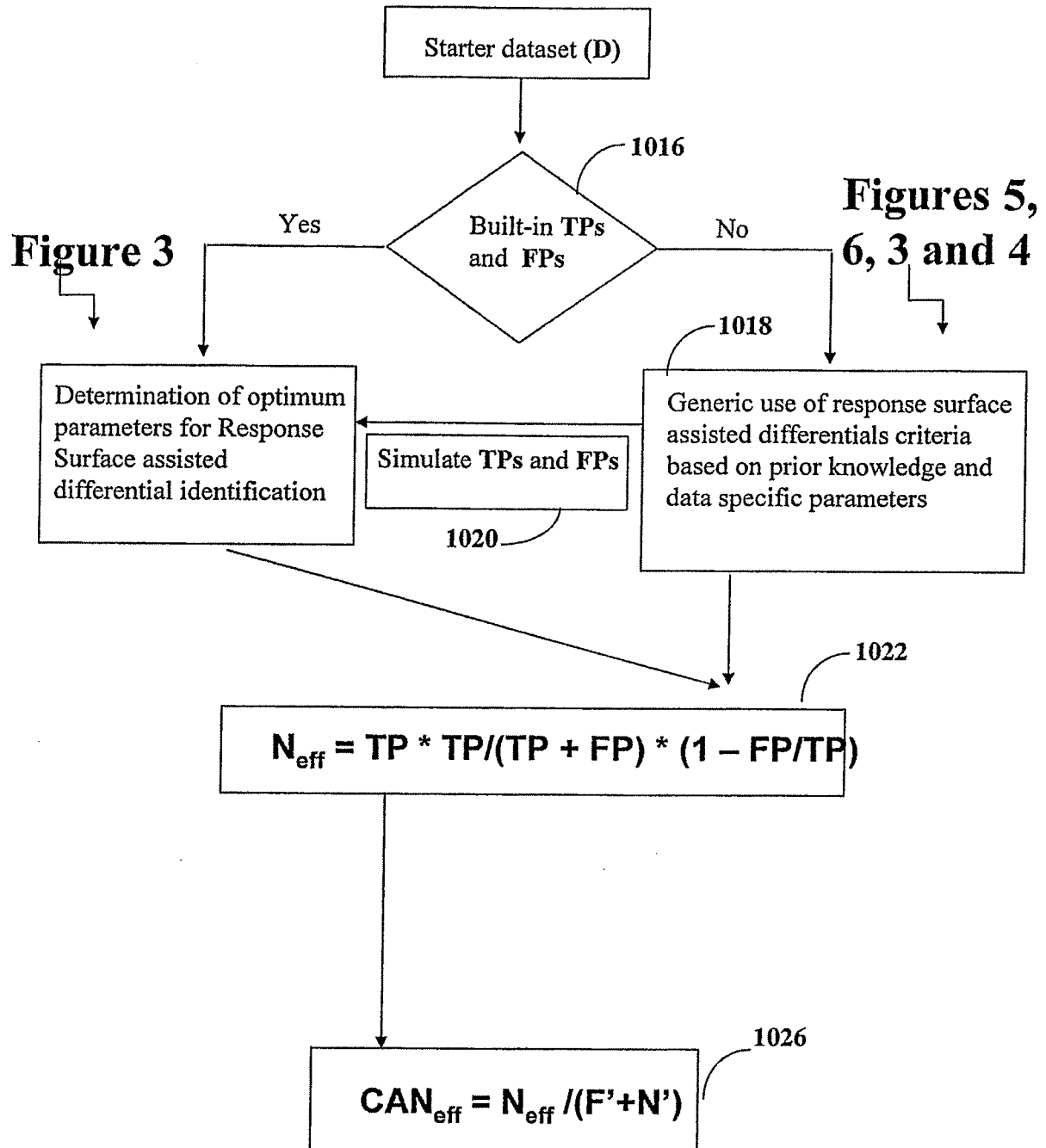
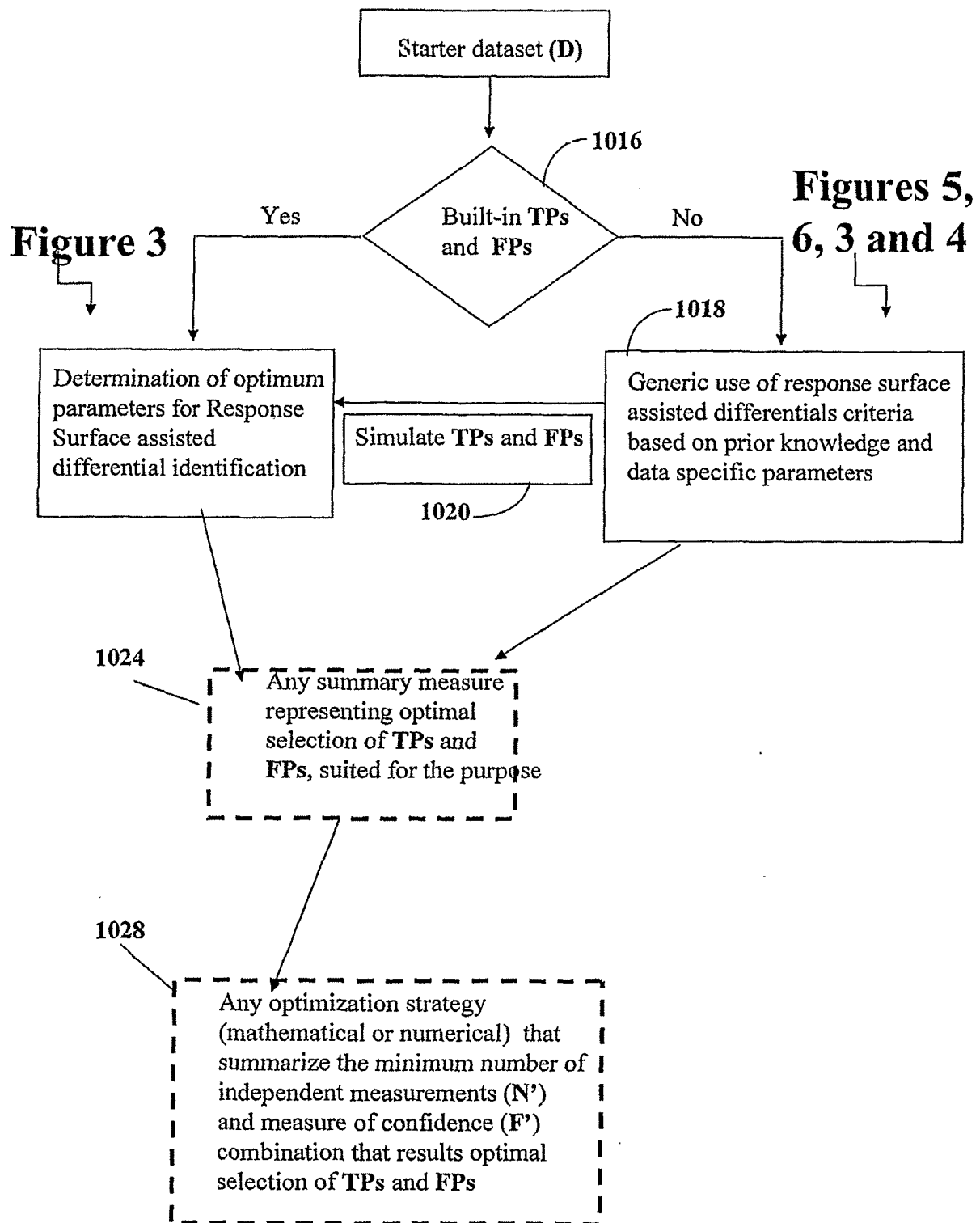


Figure 2b

Optimum response surface criteria for identifying differentials - outline



Response surface criteria for identifying differentials and parameter optimization - 1

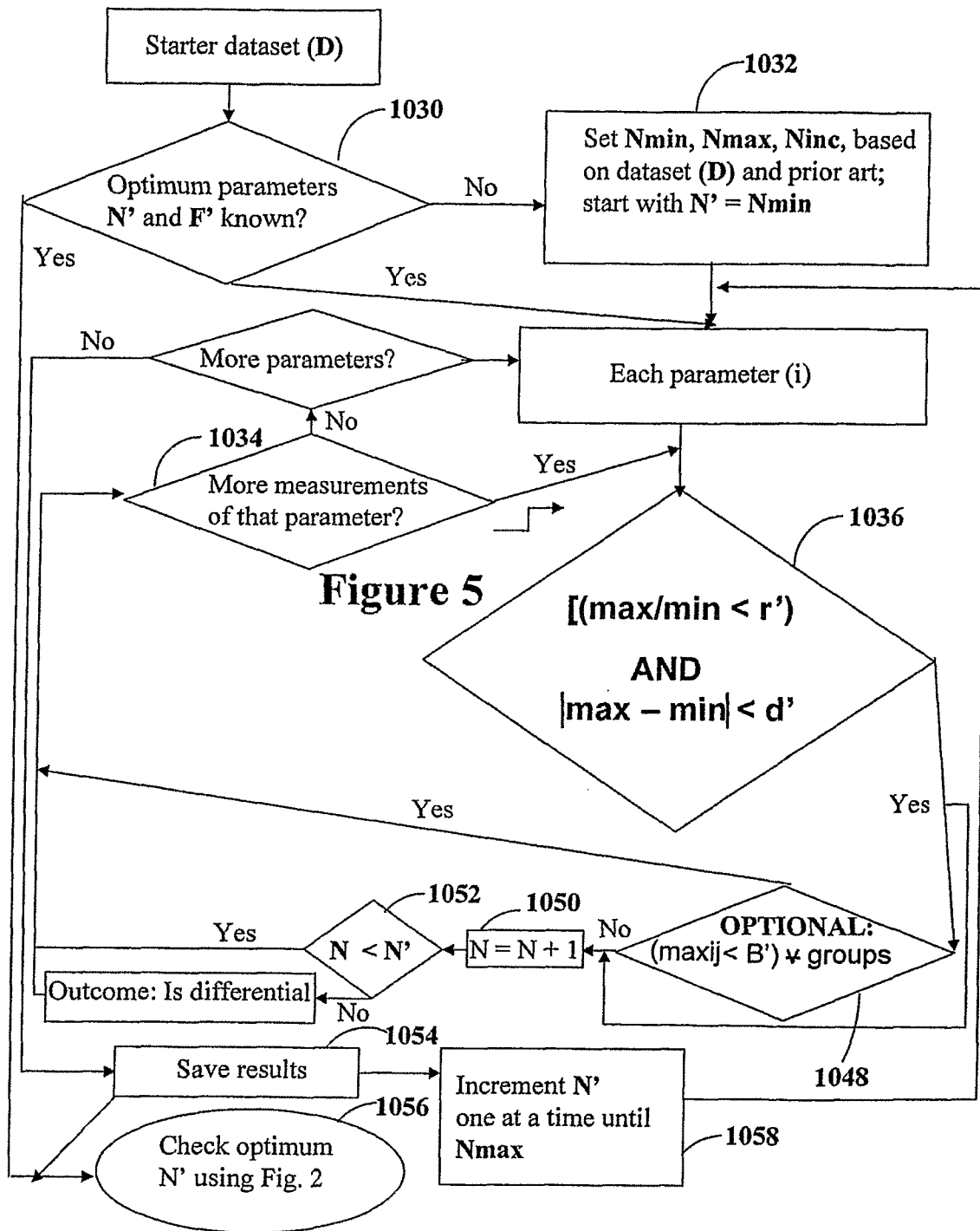
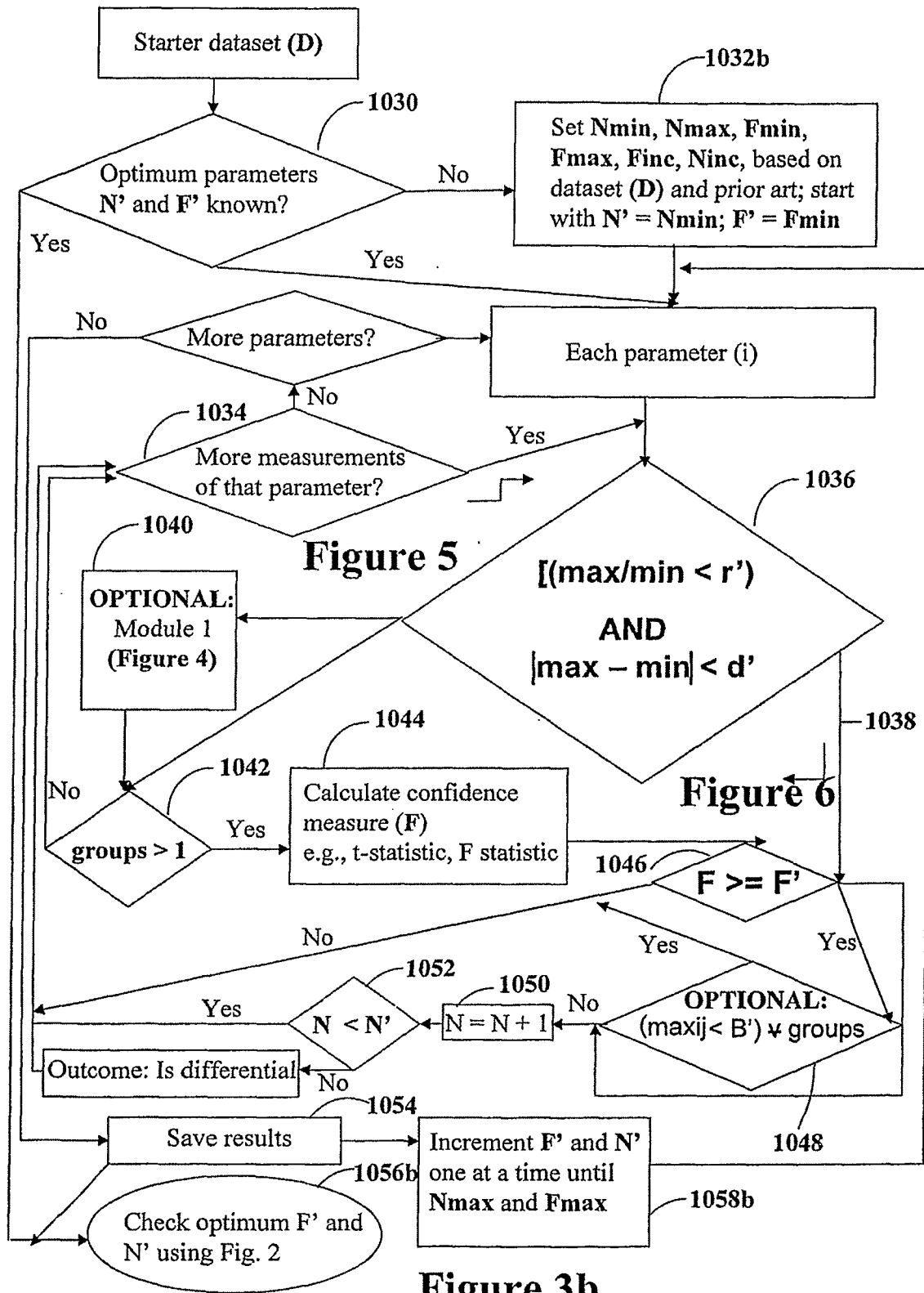


Figure 3a

Response surface criteria for identifying differentials and parameter optimization - 2



**Module1 for Response surface criteria for identifying
differentials and parameter optimization (Figure 3)**

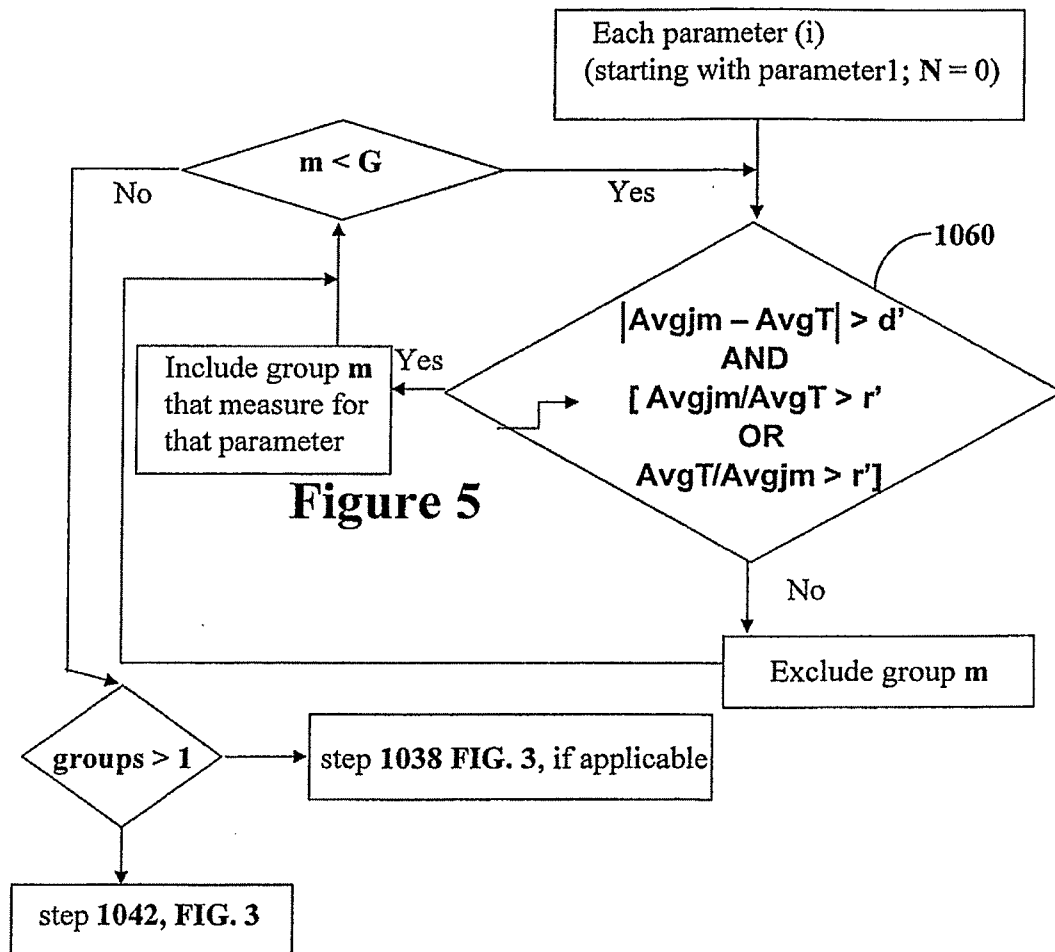


Figure 4

**Estimation of within-replicate data-specific threshold (DAST)
of distance (DASTd') and ratio(DASTr') in noise range**

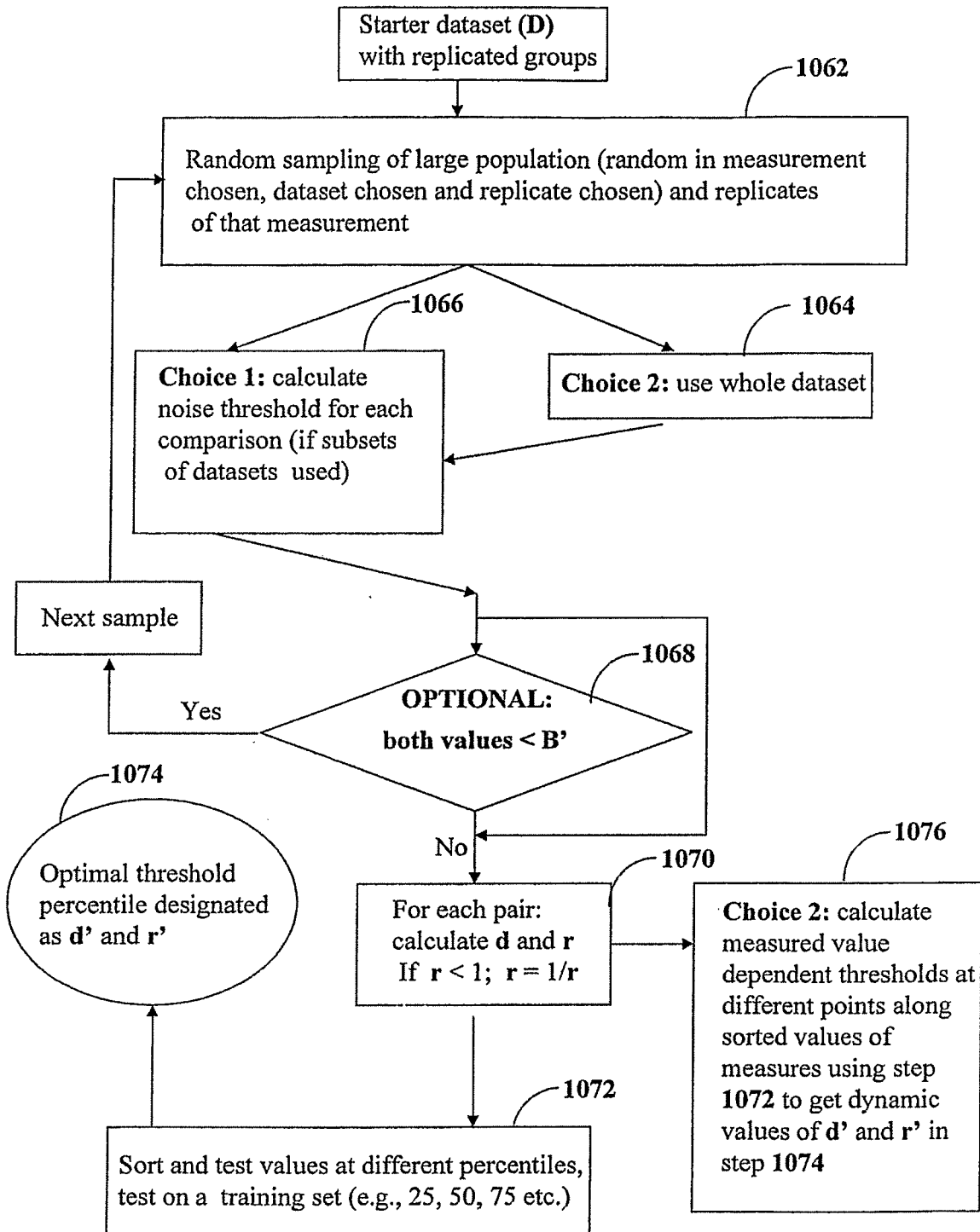


Figure 5

Estimation of within-replicate data-specific statistical threshold (DASTF') in noise range – part 1

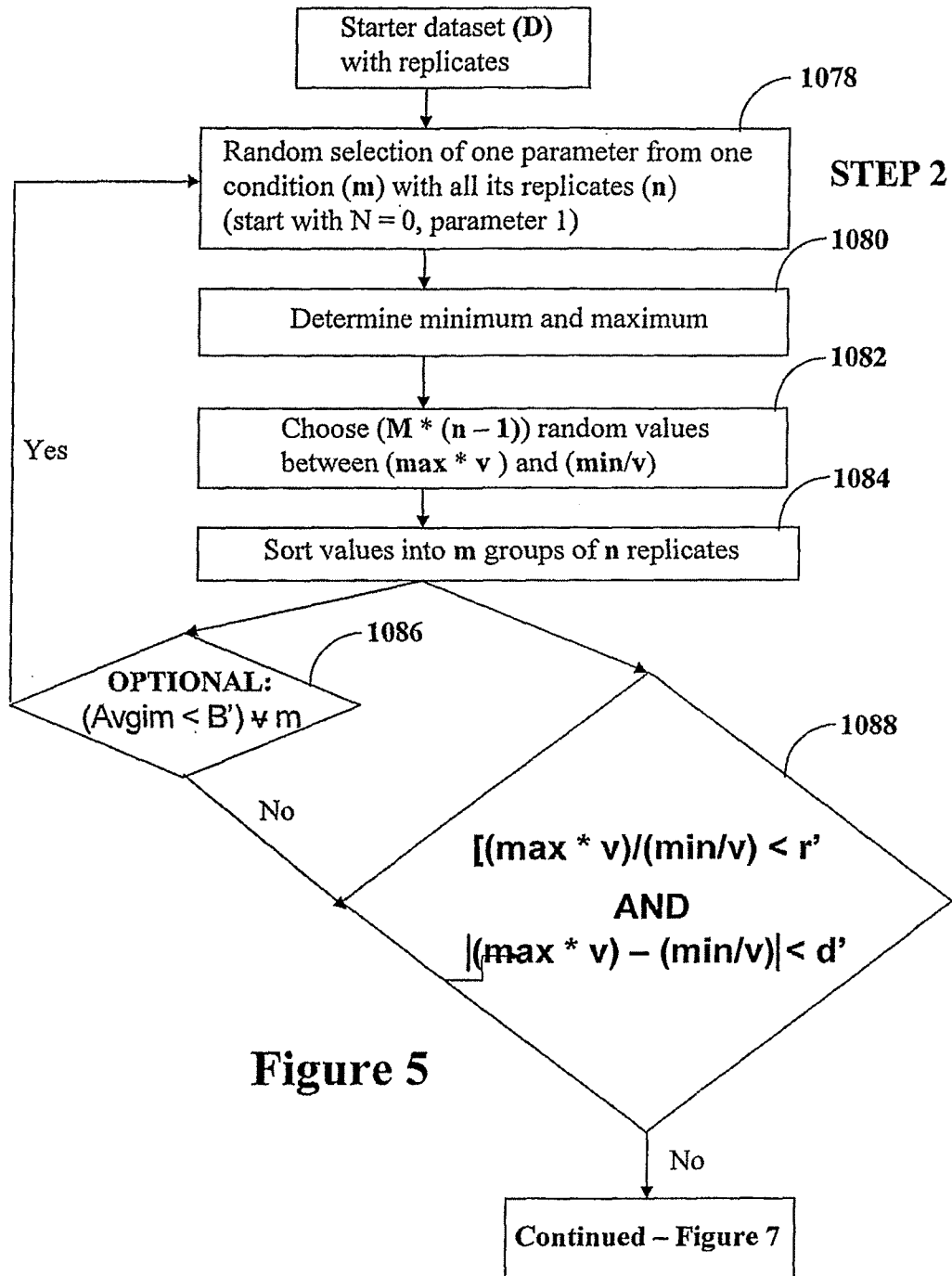


Figure 5

Figure 6

**Estimation of within-replicate data-specific statistical
threshold (DASTF') in noise range – part 2**

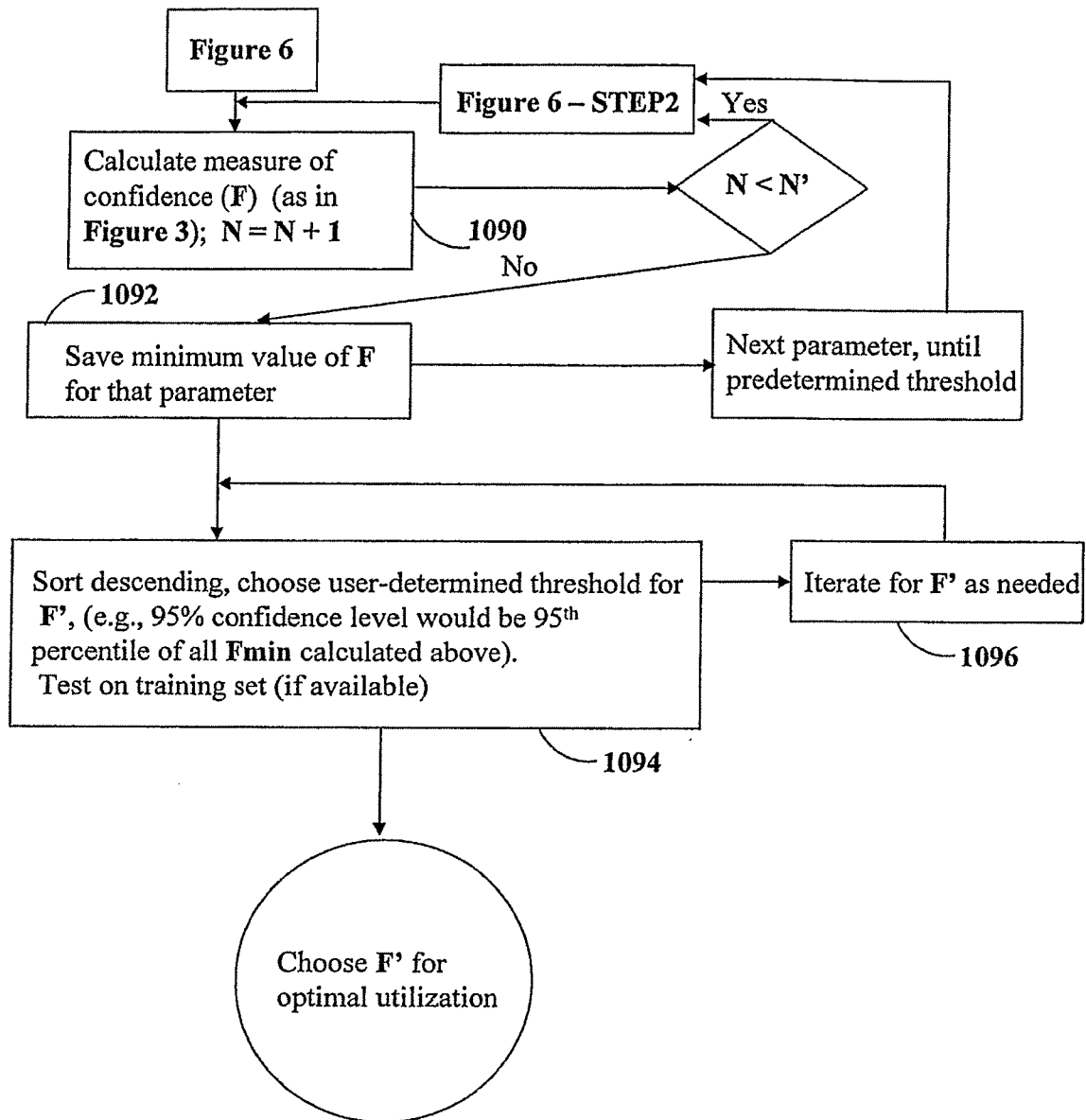
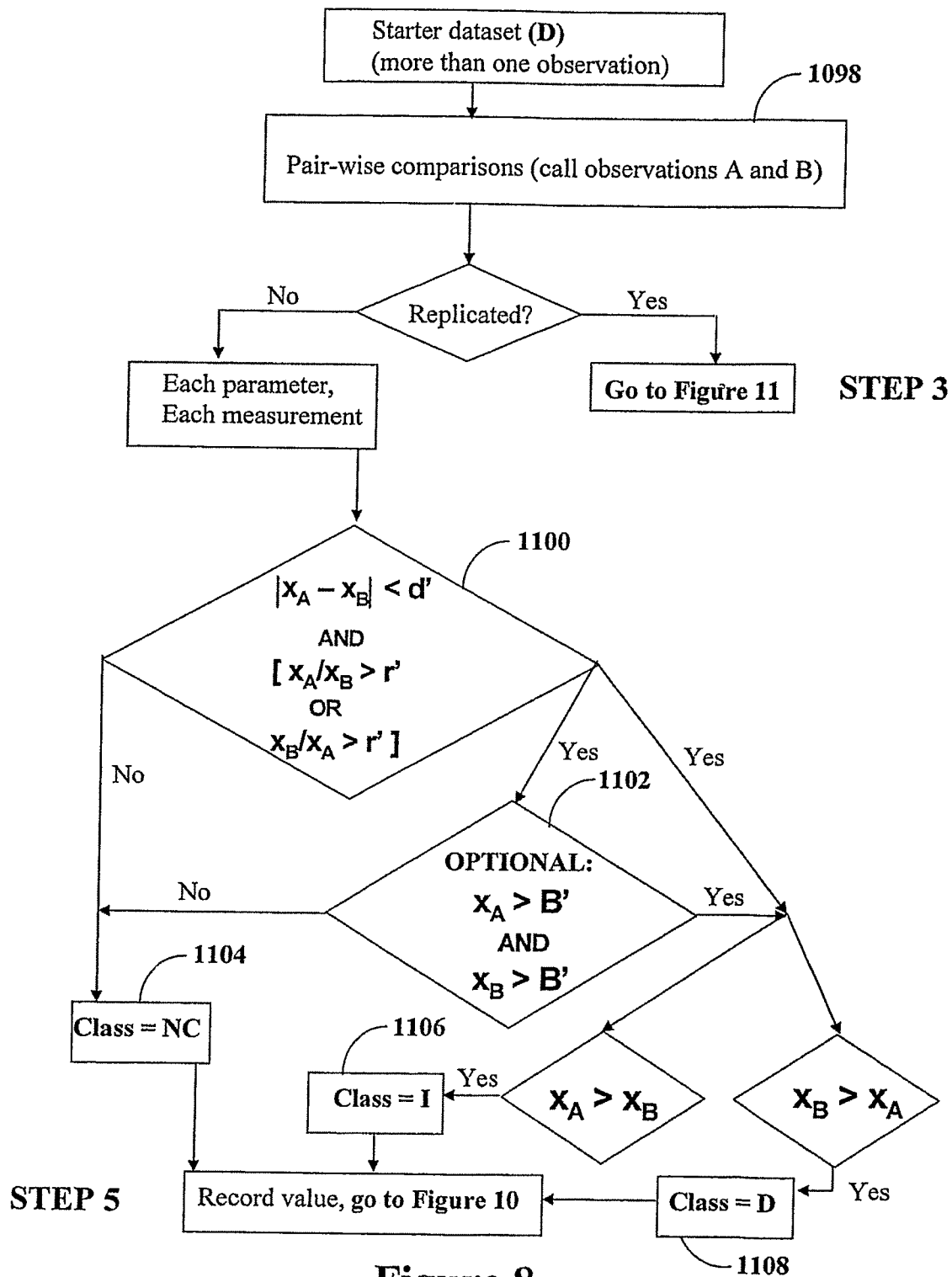


Figure 7

**Explicit model independent estimation of expression (EMINE) value
when parameter measured my multiple independent measurements**



Explicit model independent estimation of expression (EMINE) – part 2

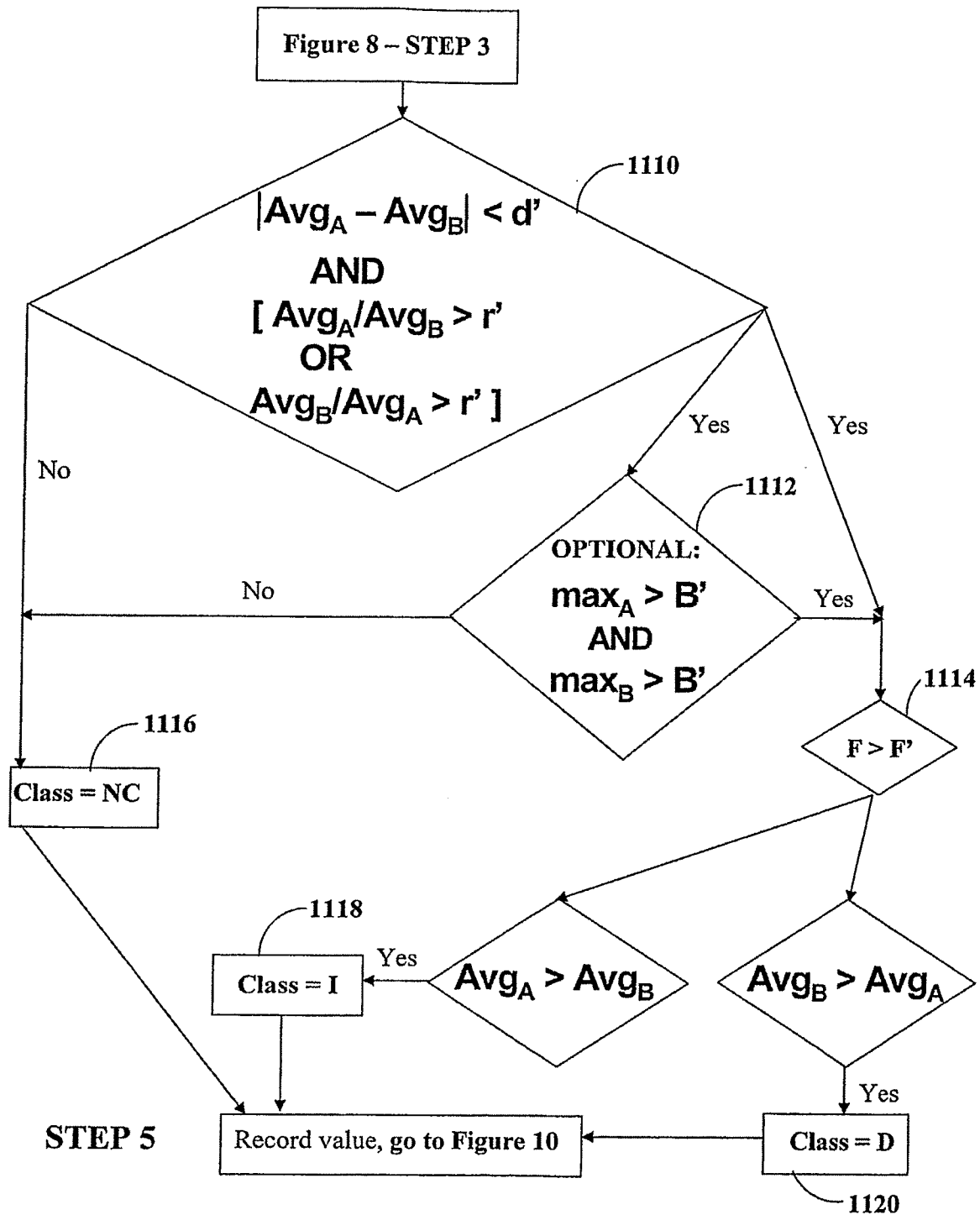


Figure 9

Explicit model independent estimation of expression (EMINE) – part 3

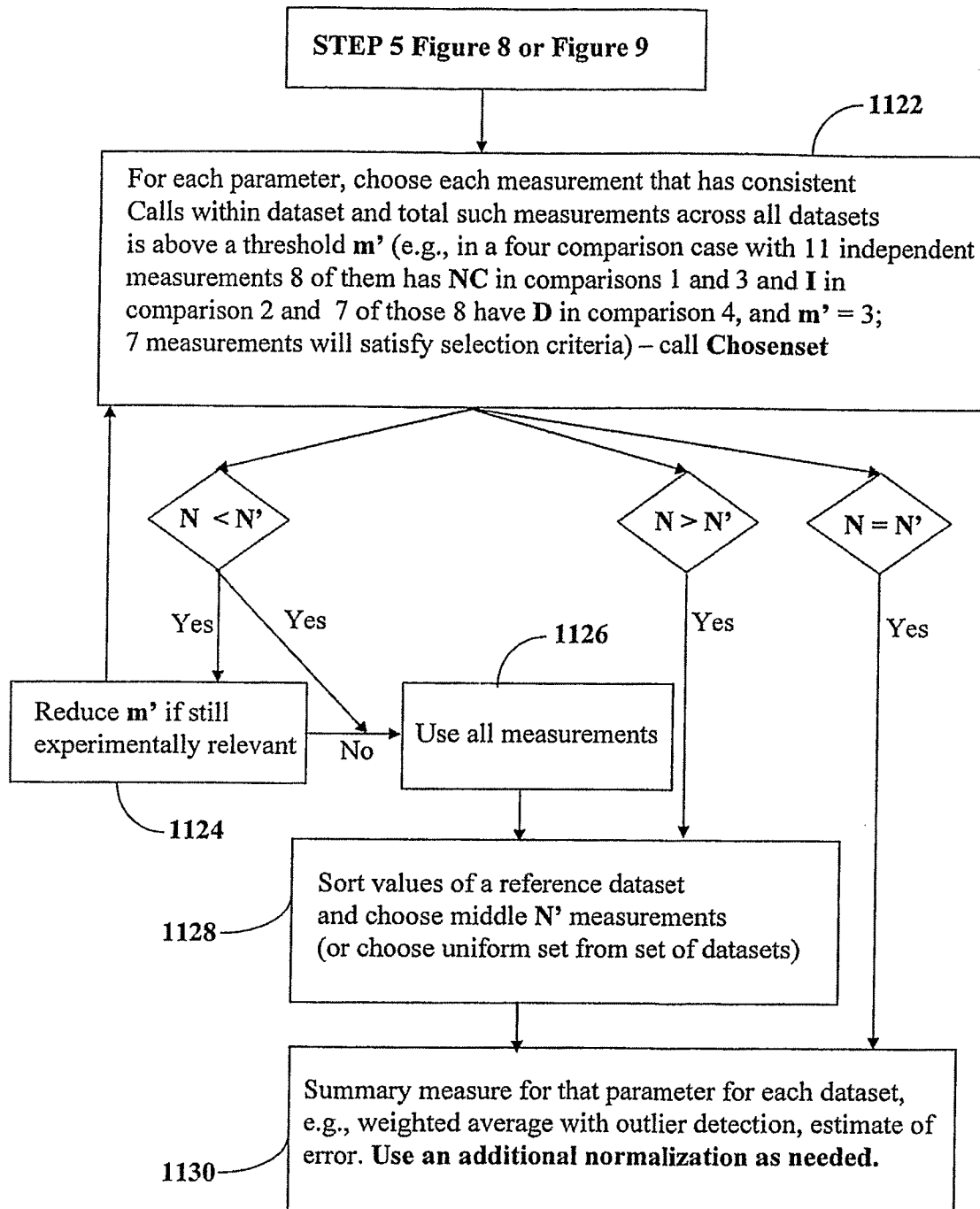


Figure 10

Estimating fold change for differentials

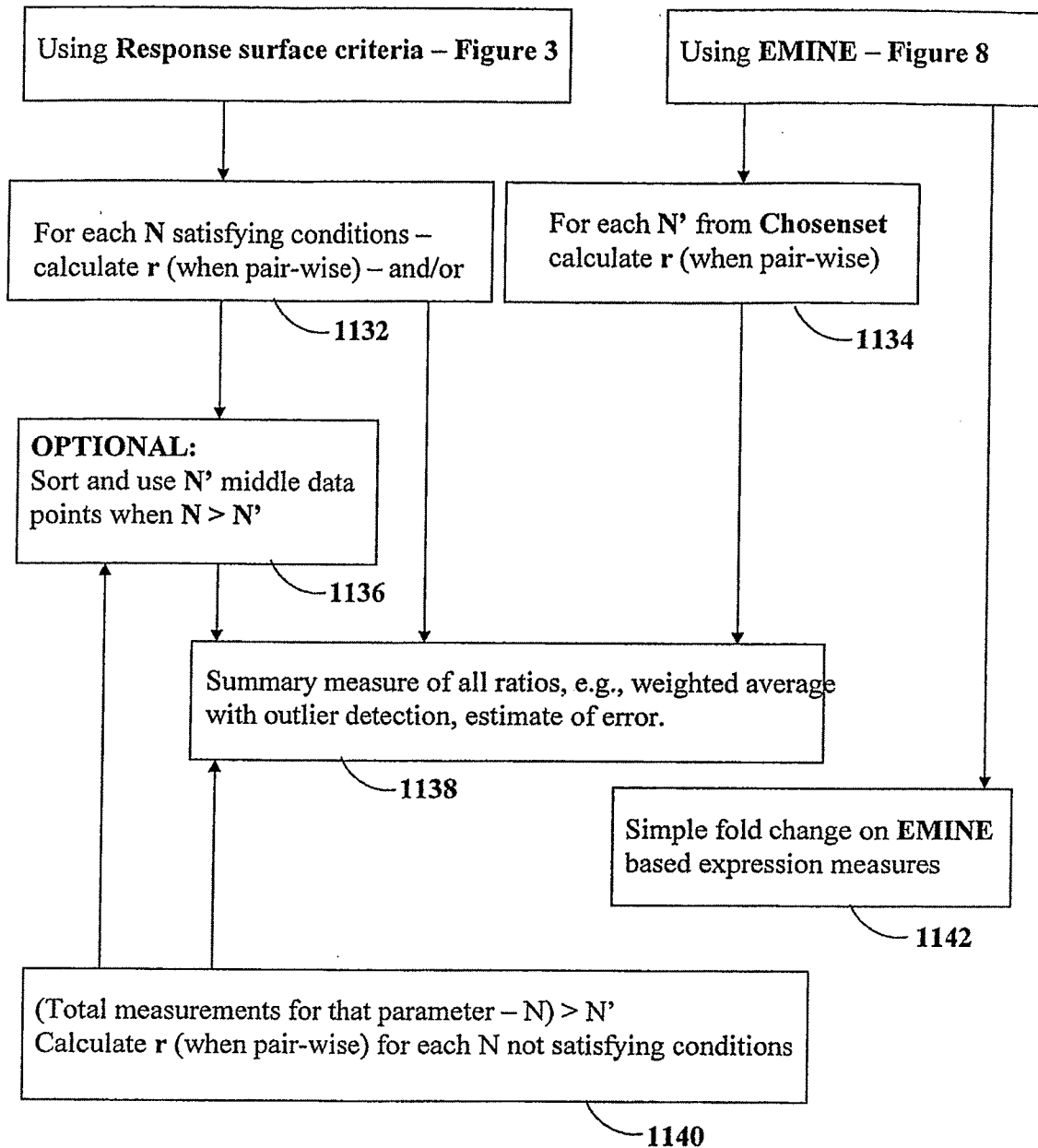


Figure 11

Confidence estimates of change for differentials

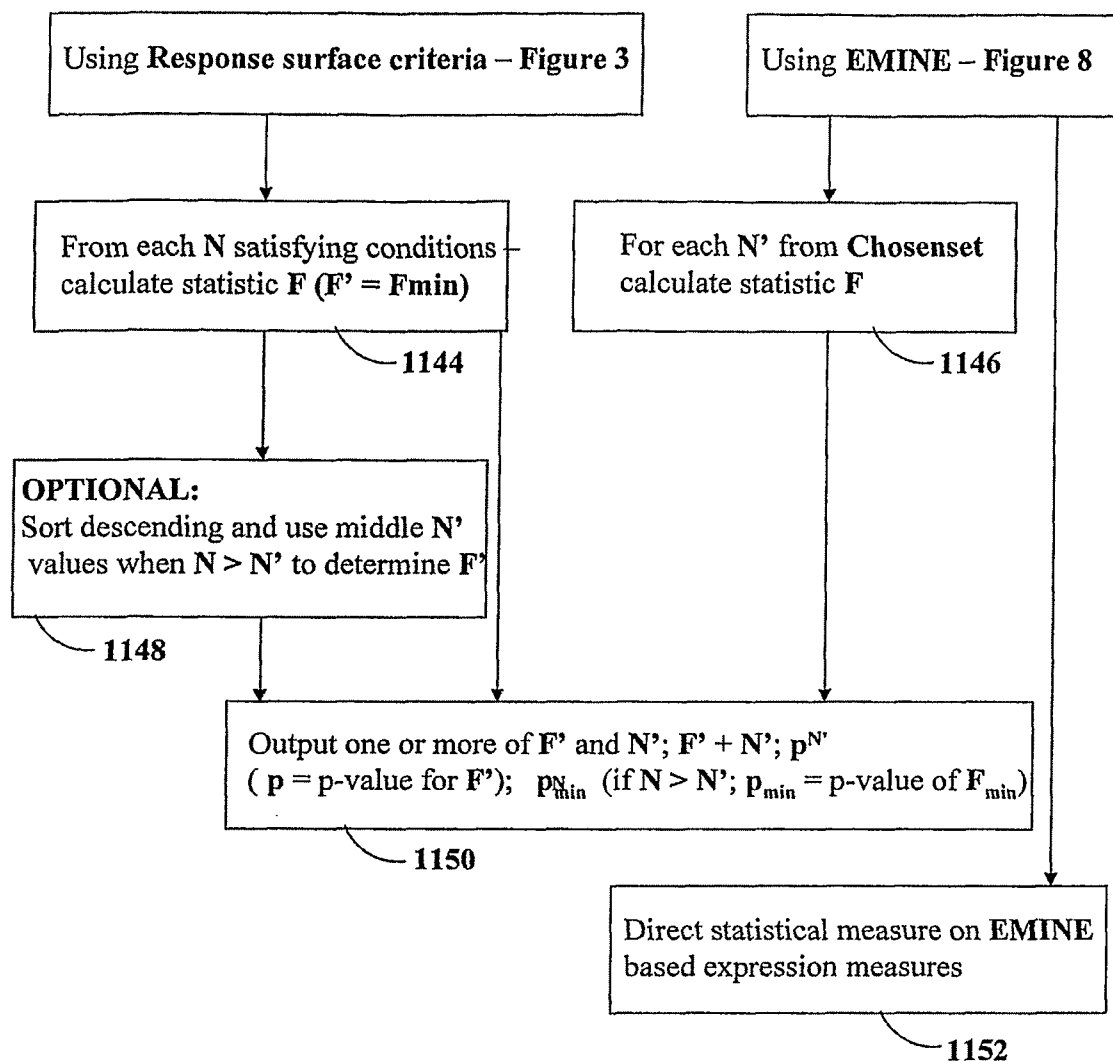


Figure 12

**A data-scaling approach (SCALEIT) to test efficacy of scheme
used to identify differentials between datasets**

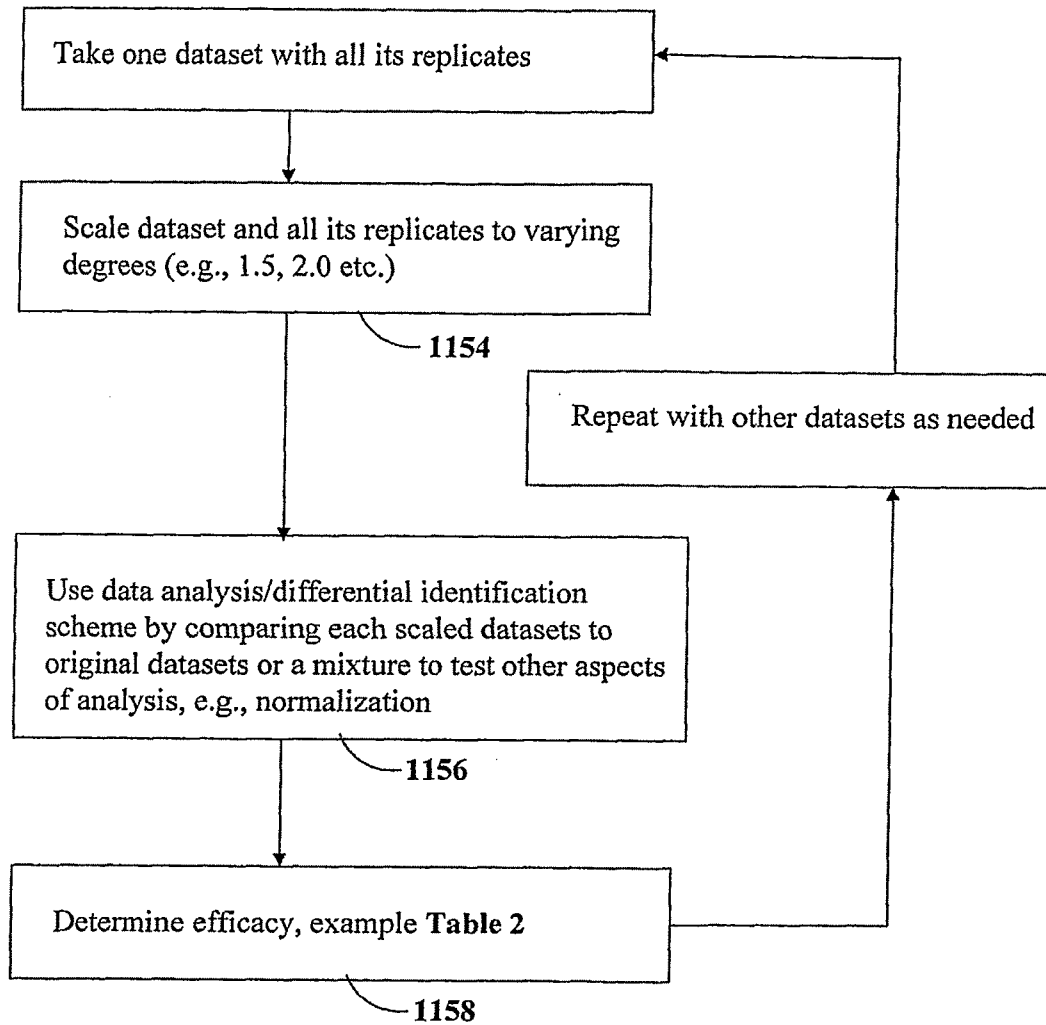


Figure 13

Biological invariance motivated normalization (BINorm)

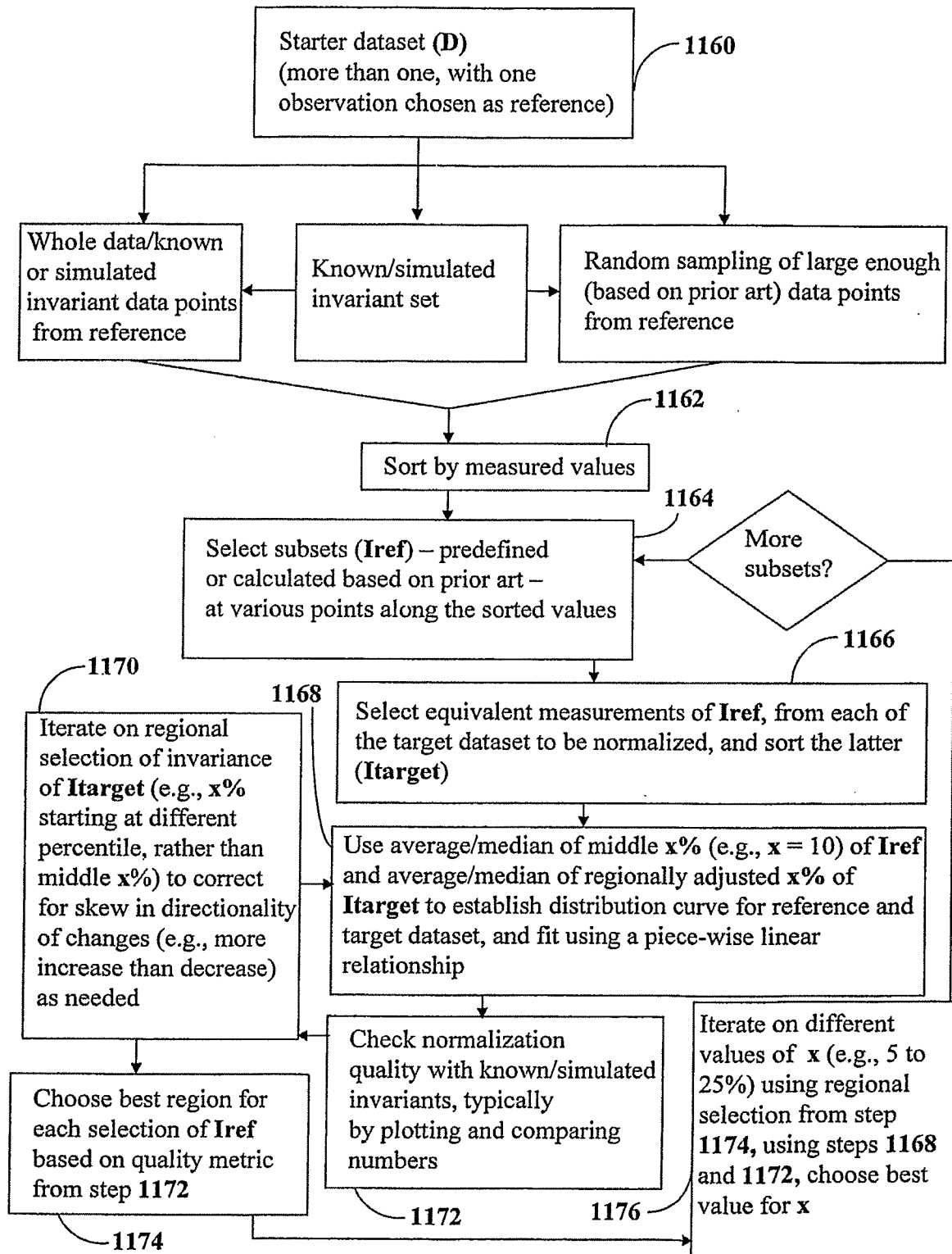


Figure 14

**Schema for a computer program and software integrated
With a database and interfaced with other processing systems**

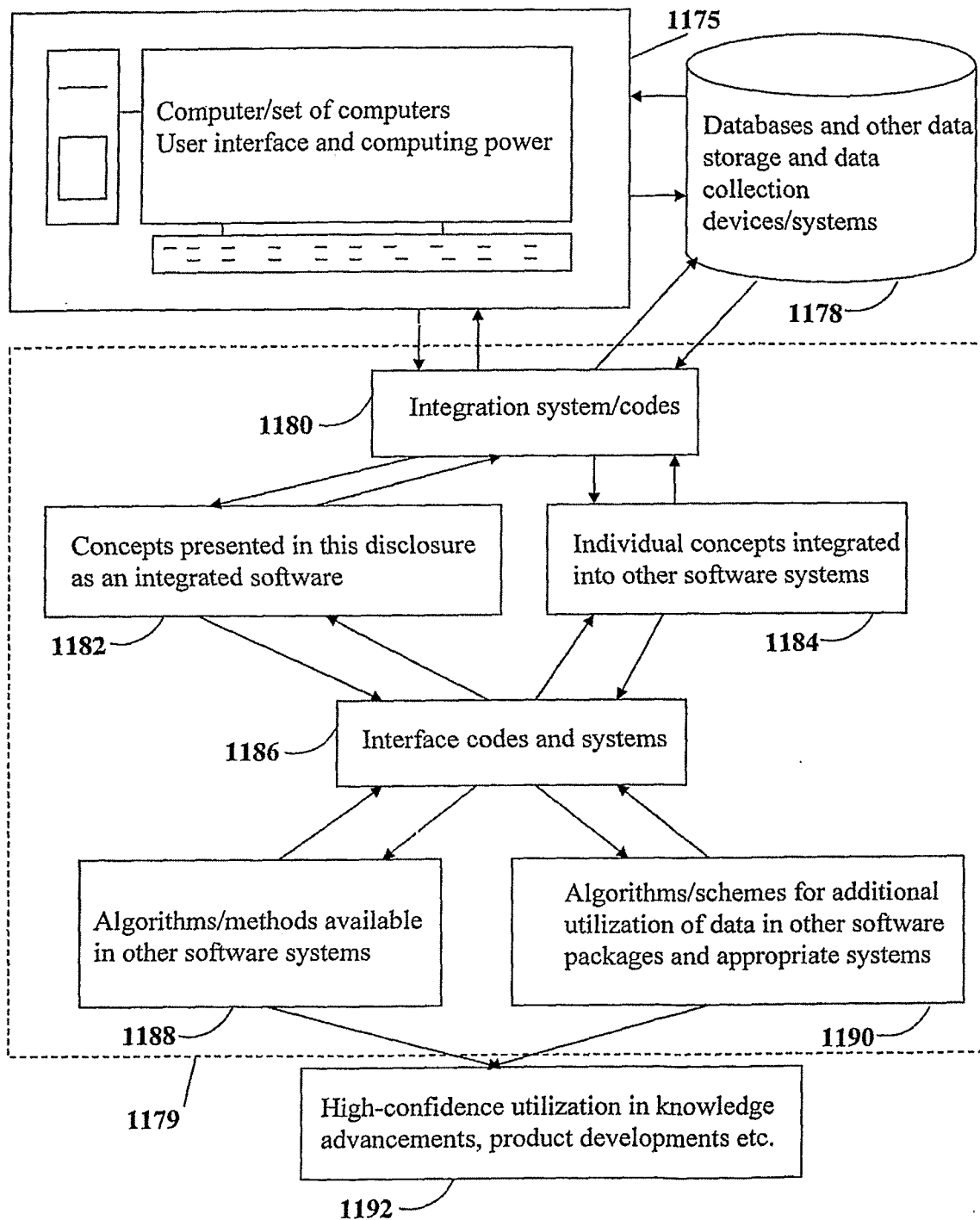
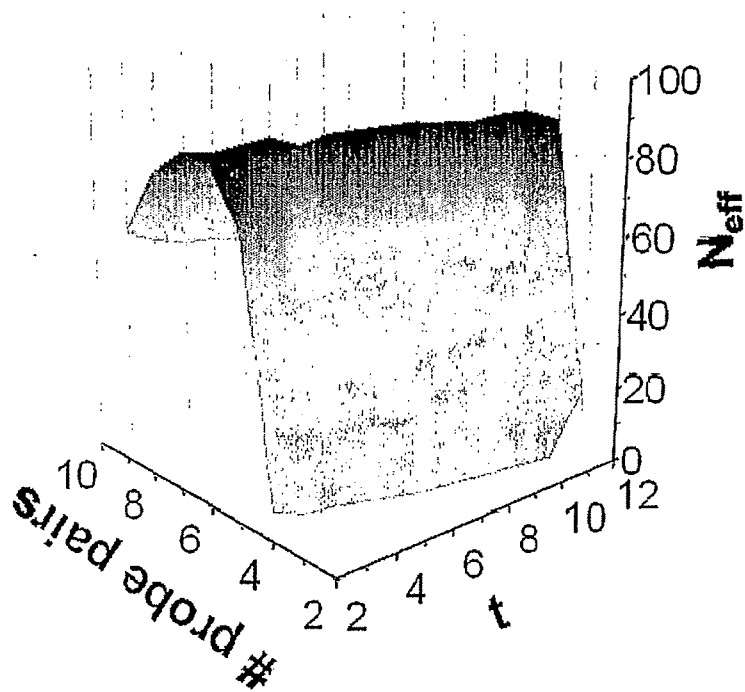
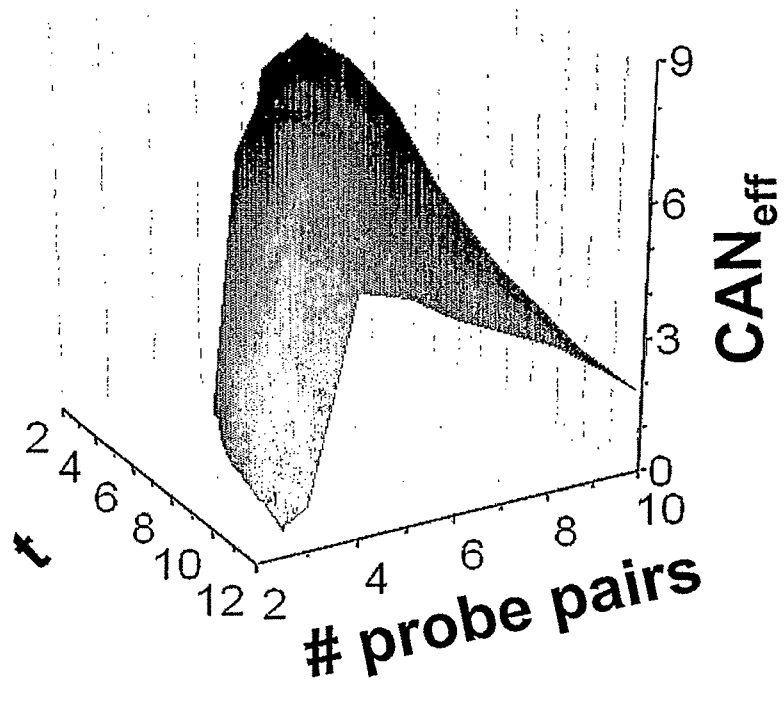
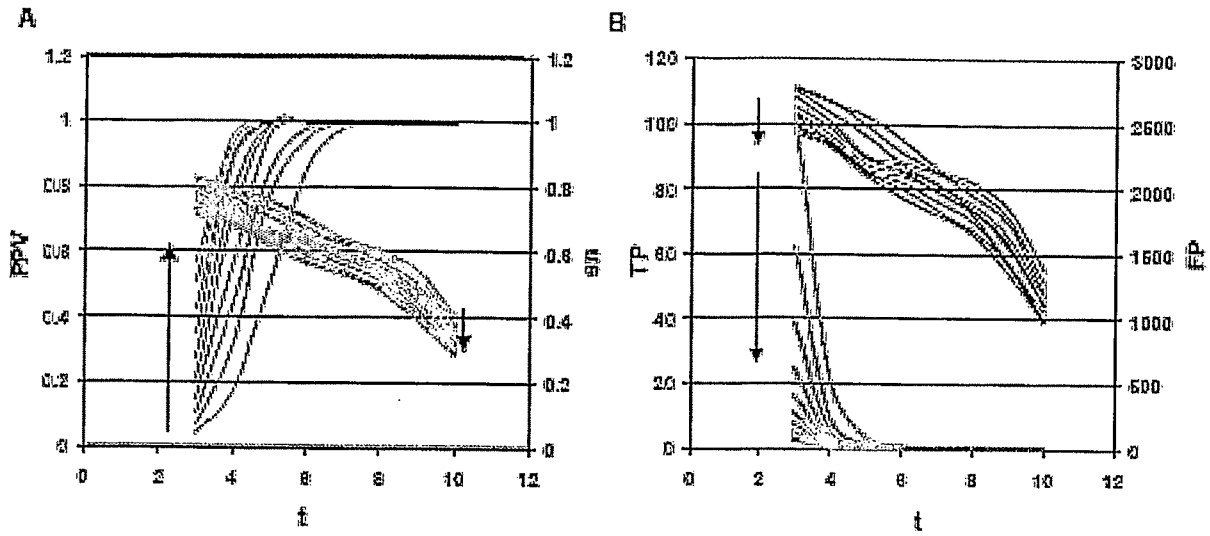


Figure 15

**Figure 16**

**Figure 17**



Figures 18A, 18B

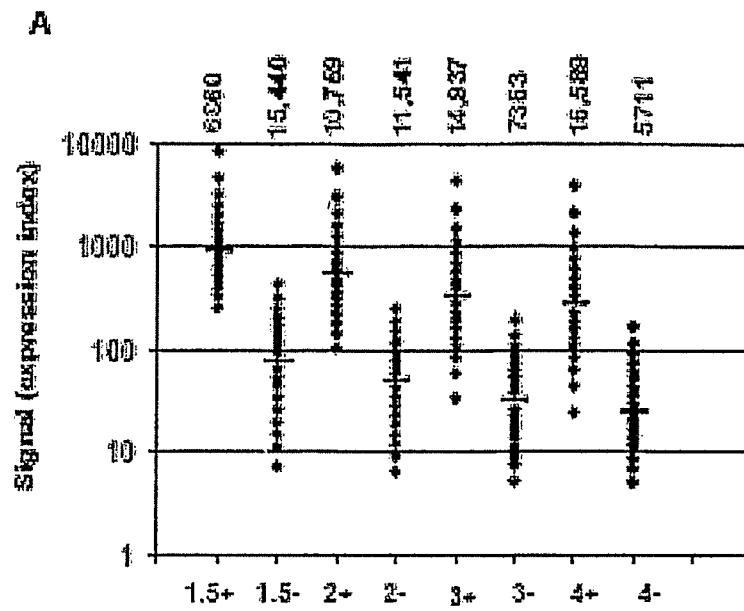


Figure 19