

**METHODS AND APPARATUS FOR MEASURING SIGNAL LEVEL AND DELAY
AT MULTIPLE SENSORS**

ABSTRACT

Methods and apparatus for automatic gain and time delay computations between multiple sensors. In exemplary embodiments, one sensor is treated as a reference sensor with respect to a measured signal quantity which is assumed to be a narrowband process. The relative gain and relative time delay in the additional sensors with respect to the same measured quantity are then automatically calculated based on an adaptive filtering algorithm. Advantageously, the disclosed embodiments are implemented using standard digital signal processing components.

Figure 2