

Figure 1: InclusionTransformation Interface

Algorithm

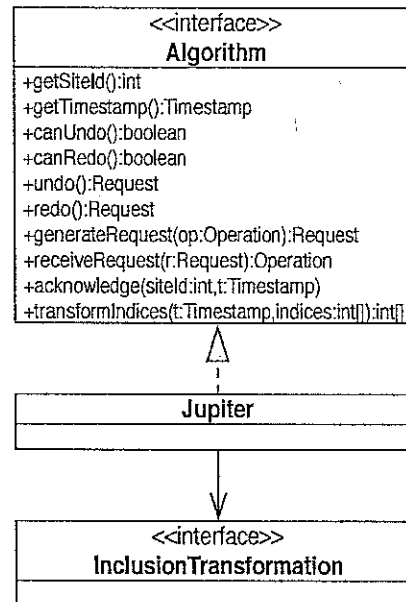


Figure 2: Algorithm Class Diagram

The algorithm package centers around the **Algorithm** interface. It gives the flexibility to switch the implementation without affecting the rest of the system. The currently only implementation of the **Algorithm** interface is the **Jupiter** class. **Jupiter** processes all requests with the collaboration of an **InclusionTransformation** implementation. The only implementation is **GOTOInclusionTransformation**. (see figure 1)

Each algorithm has a local timestamp, which can be retrieved with the `getTimestamp():Timestamp` method. In the case of *Jupiter*, the timestamp is a vector time. The vector time represents the current location in the 2-dimensional state space of *Jupiter*.

The site id assigned to the algorithm can be retrieved with the `getSiteId():int` method. The site id can be important in certain transformation cases to decide which operation has