Figure 1.1. Two nodes with a temporal inconsistency forming a cycle (A→B→A), violating the DAG acyclic property.

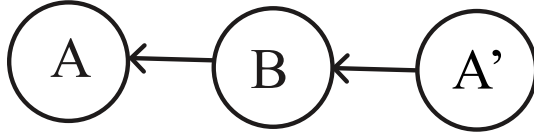**Figure 1.2.** Resolution via preprint insertion. A new node A' represents the earlier preprint version, creating the acyclic path A'→B→A.
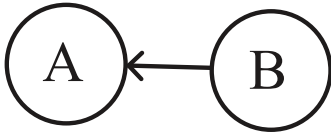
Figure 1.3. Resolution via edge removal. The forward-pointing edge is deleted to break the cycle.
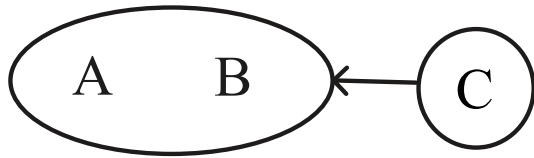
Figure 1.4. Resolution via node grouping. Nodes A and B merge into a single "family" node inheriting all external connections (e.g., from node C).

Past   Time