

## **Summary on A Flexible Framework for Developing Mixed-Initiative Dialog Systems**

### ***Contribution:***

The paper proposed a framework for mixed-initiative dialog system development, HOT. It has improvements over Form-based Dialog Manager (Voice XML is an instance of FDM). HOT framework consists of three major components, dialog History, domain Objects, and Task hierarchy.

With Task hierarchy, developers are able to specify sub-tasking, ordering, cardinality, inheritance, sub-dialog relationships among the tasks(component) in the hierarchy.

With History, developers are able to store system data and to keep track of the task's status.

The framework provides predefined task functionality which simplifies the development process.

### ***Limitation:***

Contextual information are not involved in the dialog process, except discourse is kept as a history and used to keep track of status.

The improvement seems not so significant as compared against Voice XML.