The Multi-Agent Systems (MAS) deals with complex applications that require distributed problem solving. Since Multi-agent systems are often distributed and agents have the proactive and reactive features, combining Data Mining (DM) with Multi-agent systems for Data Mining (DM) intensive applications is therefore appealing.

We discuss issues concerned with the viability of Multi-Agent systems for Data Mining (MADM). We investigate the usefulness of MAS in the context of Distributed Data Mining and examine the issues affecting the design and implementation of a generic and extendible agent-based data mining framework.

The basic research issues associated with MADM are those of experience and resource sharing, flexibility, extendibility, and protection of privacy and intellectual property rights. We investigate and evaluate proposed solutions to MADM issues, an Extendible Multi-Agent Data mining System (EMADS) to be developed.

This proposed EMADS framework promotes the ideas of high-availability and high performance without compromising data or DM algorithm integrity. We also provide a highly flexible and extendible data-mining platform. The resulting system allows users to build collaborative Data Mining approaches. This proposed framework has been applied to a number of Distributed Data Mining scenarios. Experimental tests on real data have confirmed its effectiveness.