International Workshop on Web Intelligence and Communities (WI&C 2011)

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**WI&C 2011 Workshop Statement:** Communities appear as a first-class object in the areas of web intelligence and agent technologies, as well as a crucial crossroads of several subdomains. These subdomains impact the nature of the communities and the applications that are related to them. These applications are numerous, and the success of well-known social network sites for entertainment should not be allowed to overshadow the other application domains, for instance, in education, health, design, knowledge management, and so forth.

The social component of communities is straightforward and any application must take this dimension into account carefully in order to ensure success. There are numerous technical aspects and this workshop will address some of them.

“Communities” means *participants*. This can mean the users and their dynamic profiles and objectives. But this can also mean the distributed software agents, modelling beliefs and desires as well as decision-making processes. “Communities” also means *communication*. Protocols and social behavior must be considered. This also includes the issues related to cohesion, to the “individual vs. collective” dimension, and to security (i.e., trust and privacy). “Communities” means *data management* and *data mining*. Indeed some crucial back-office processes in such a distributed architecture occur in order to store information, extract knowledge, and learn from it. This can be used, for instance, to get better quality recommendations. And “communities” means *content modelling*. A community exists because some content is formalized, exchanged, and understood within the network despite heterogeneity. Documents, short texts (notifications), names, and data are subjected to the semantic web modelling techniques and the (natural) language processing techniques. This leads to machine-processable content. All of these aspects can be addressed and their combinations lead to the complex first-class objects that are “communities.”