The Web as related to commerce suffers from a fundamental asymmetry. While there is a great number of commercial offers available, consumer needs are rarely represented explicitly. Thus, the most widely applied process of connecting the prospective consumer of a resource with its supplier is Web search.

We are developing an infrastructure that will allow consumers to describe and publish their needs and have them interact with offers in a semi-automatic process, reducing the need for manual search and enabling a wide range of unprecedented applications. Stressing the fundamentally different status of needs in such a system we refer to it as a web of needs or WON.

We are developing methods for channeling the vast amount of diverse information present on the Internet. Using modern Web techniques and intelligent services, we try to reduce its complexity and alleviate the accessibility of information catering to the user’s personal interests.

We are developing a matching service based on textual descriptions of objects and WON ontology, in which constraints are taken into account.

We are developing a matching service based on textual descriptions of objects and WON ontology, in which constraints, combinations and dependencies of needs are taken into account.

We are developing a matching service based on textual descriptions of objects and WON ontology, in which constraints, combinations and dependencies of needs are taken into account.

Development of a new ontology or extension of an existing ontology
Development of a formalism for the specification of object properties
Development of a formalism for the specification of constraints of object properties
Extension of the ontology so that combinations and dependencies can be formulated

Studio Smart Agent Technologies of Research Studios Austria develops methods for channeling the vast amount of diverse information present on the Internet. Using modern Web techniques and intelligent services, we try to reduce its complexity and alleviate the accessibility of information catering to the user’s personal interests.

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Reference