Abstract:
Web data integration is a complex and detailed process that requires unambiguous explanations to elucidate the underlying concepts. Unfortunately, most existing integration systems still involve substantial manual input, and adopt *ad hoc* approaches to data integration, ignoring the necessary formalisms to specify the integration process. In this talk, we present a flexible and correctness preserving approach to Web data integration. We leverage algebraic signatures, with sound integration principles and algorithms to provide a theoretical foundation that facilitates a scalable Web data integration.