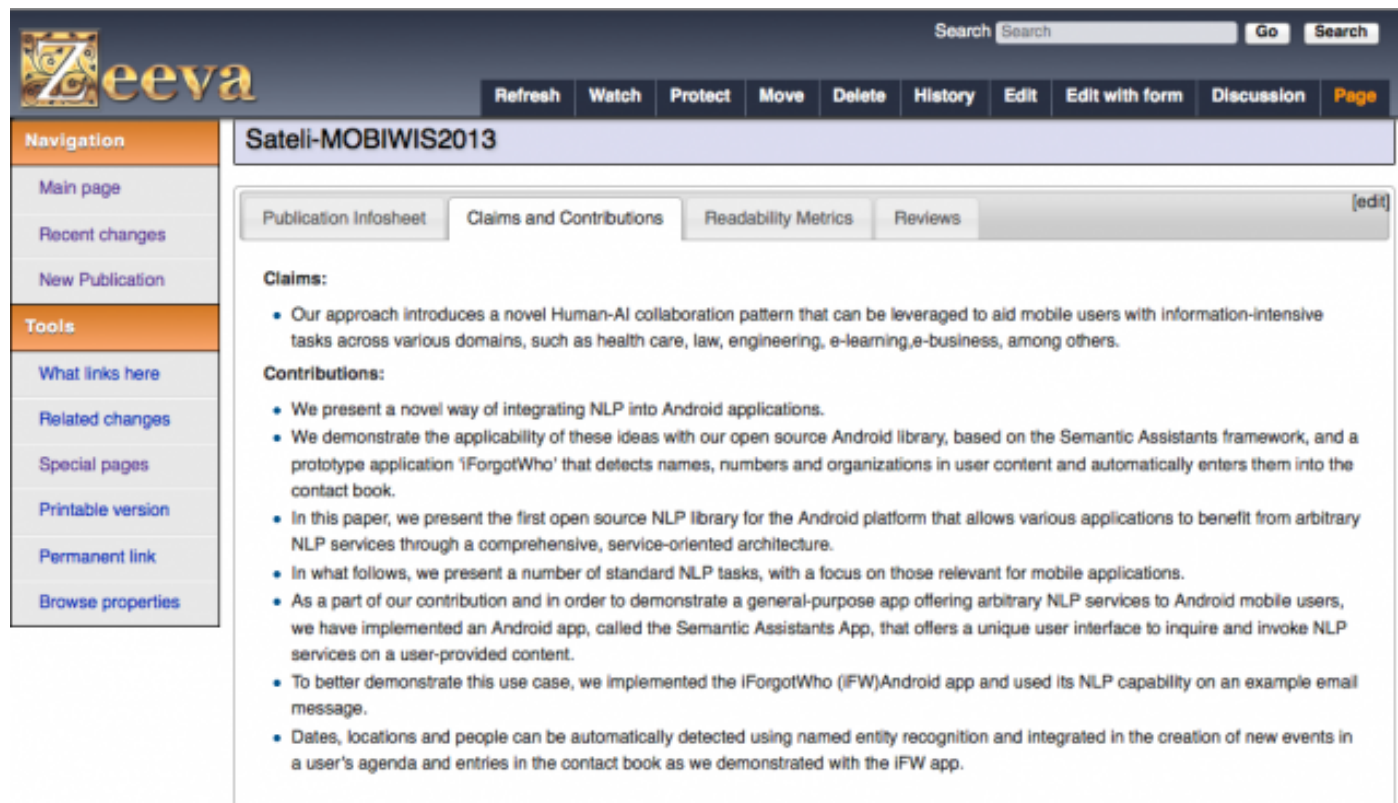


Semantic infosheet of bibliographical metadata extracted from a sample paper



The screenshot shows the Semantic Software interface for the 'Satelli-MOBWIS2013' page. The interface includes a navigation sidebar on the left with links like 'Main page', 'Recent changes', and 'New Publication'. The top bar features a search function and various action buttons like 'Refresh', 'Watch', 'Protect', 'Move', 'Delete', 'History', 'Edit', 'Edit with form', 'Discussion', and 'Page'. The main content area has tabs for 'Publication Infosheet', 'Claims and Contributions', 'Readability Metrics', and 'Reviews'. The 'Claims and Contributions' tab is active, displaying a list of claims and contributions.

Claims:

- Our approach introduces a novel Human-AI collaboration pattern that can be leveraged to aid mobile users with information-intensive tasks across various domains, such as health care, law, engineering, e-learning, e-business, among others.

Contributions:

- We present a novel way of integrating NLP into Android applications.
- We demonstrate the applicability of these ideas with our open source Android library, based on the Semantic Assistants framework, and a prototype application 'IForgotWho' that detects names, numbers and organizations in user content and automatically enters them into the contact book.
- In this paper, we present the first open source NLP library for the Android platform that allows various applications to benefit from arbitrary NLP services through a comprehensive, service-oriented architecture.
- In what follows, we present a number of standard NLP tasks, with a focus on those relevant for mobile applications.
- As a part of our contribution and in order to demonstrate a general-purpose app offering arbitrary NLP services to Android mobile users, we have implemented an Android app, called the Semantic Assistants App, that offers a unique user interface to inquire and invoke NLP services on a user-provided content.
- To better demonstrate this use case, we implemented the IForgotWho (IFW) Android app and used its NLP capability on an example email message.
- Dates, locations and people can be automatically detected using named entity recognition and integrated in the creation of new events in a user's agenda and entries in the contact book as we demonstrated with the IFW app.



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