MISSION

The Web has proved to be an unprecedented success for facilitating the publication, use and exchange of information, at planetary scale, on virtually every topic, and representing an amazing diversity of opinions, viewpoints, mind sets and backgrounds. Its design principles and core technological components have lead to an unprecedented growth and mass collaboration. This trend is also finding increasing adoption in business environments. Nevertheless, the Web is also confronted with fundamental challenges with respect to the purposeful access, processing and management of these sheer amounts of information, whilst remaining true to its principles, and leveraging the diversity inherently unfolding through world wide scale collaboration.

RENDER engages with these challenges by developing methods, techniques, software and data sets that will leverage diversity as a crucial source of innovation and creativity, whilst providing enhanced support for feasibly managing data at very large scale, and for designing novel algorithms that reflect diversity in the ways information is selected, ranked, aggregated, presented and used.

In its final release RENDER’s information management solution is tailored to scale to very large amounts of data and hundreds of thousands of users, but also to a plurality of points of views and opinions. This is demonstrated through the usage of realistic data sources with billions of items; through open source extensions to popular communication and collaboration platforms (MediaWiki, Drupal); and through three high-profile case studies.

RENDER helps to realize a world where information is acquired and shared in a fundamentally different manner than the consensual approach promoted by movements such as Web 2.0, and where communication and collaboration across the borders of social, cultural or professional communities are truly enabled via advanced Web technology, supporting one of the credos of European society: “United in diversity.”

EXPECTED OUTCOME

RENDER develops concepts, methods, techniques and technology to (i) collect and manage information sources which are rich in diversity; (ii) identify and extract the diversity embodied within the various information sources collected; (iii) represent and process diversely expressed information, and (iv) use diversity as integral concept of popular communication, collaboration and information sharing platforms, in the form of extensions to MediaWiki, Drupal, or Twitter.
THE BIG PICTURE

WP6: Dissemination, community building, exploitation

WP5: Diversity case studies

WP4: Diversity toolkit
- MediaWiki
- Drupal
- Twitter

WP3: Diversity representation & processing
- Models, lightweight reasoning
- Search, selection and ranking
- Summarization
- Presentation and interfaces

WP2: Diversity mining
- Opinion detection
- Multilinguality
- Bias in media
- Fact coverage
- Story links

WP1: Data collection and management
- Blogs
- News
- Twitter
- Wikipedia
- LOD
- Annotation, integration, linking

ADMINISTRATIVE DETAILS

<table>
<thead>
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<th>Start</th>
<th>October 2010</th>
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<td>End</td>
<td>September 2013</td>
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<tr>
<td>EC Contribution</td>
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</tr>
<tr>
<td>Project coordinator</td>
<td><a href="mailto:rudi.studer@kit.edu">rudi.studer@kit.edu</a></td>
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