



Call for papers:

Big Data

Special issue

Journal of Universal Computer Science

Background

The concept of Big Data has in recent years become a buzzword not only in higher education and research, but also in public discourse. The availability of large and rich sets of data, possibilities in storing, searching, transferring, combining, and visualizing various types of data offer interesting possibilities in research projects crossing disciplinary boundaries. So far, however, fairly little cross-disciplinary research has been published on the societal, technological, ethical and scientific challenges posed by Big Data.

This cross-disciplinary special issue of the *Journal of Universal Computer Science* (<http://www.jucs.org/>) will therefore be devoted to Big Data.

The papers for *J.UCS* should be suitable for experts in the respective fields, but also accessible to wider academic audiences. In view of the publication venue, all papers should contain some relation to computing issues. Furthermore, it is expected that authors cite relevant articles from the *Journal of Universal Computer Science* in their papers. Contributions should fall within the categories (a) research contributions, (b) notes, or (c) surveys (for further elaboration, see http://www.jucs.org/jucs_info/aims).

Topics

Topics of interest could include but are not limited to Big Data foundations from:

- **Computer science:** Big Data parallel and stream processing and optimization, analytics and machine learning, visualization and visual analytics, security and encryption, and enabling IT tools.
- **Library and information science:** Big Data knowledge and information modeling and management.
- **Mathematics:** statistical methods and stochastic processes for analyzing Big Data streams and sets.

- **Humanities:** ethical aspects and veracity.
- **Linguistics**, e.g., corpus-based analysis of language variability and theoretical applications in making use of linguistic material in Big Data analyses.
- **Media studies**, e.g., analysis of social media in relation to classical journalism.
- **Media technology**, e.g., mobile analytics.
- **Social sciences**, e.g., behavior of communities.
- **Economics**, e.g., forecast of stock prices.
- **Life sciences**, e.g., diagnostics and prediction of diseases.
- **Physics**, e.g., astrophysics.

Important dates

- 1st June 2016: Call for papers out
- 1st September 2016: Submission deadline of the first versions to magnus.levin@lnu.se
- Peer-review: autumn 2016
- 30 November 2016: Notifications of acceptance
- 15 January 2017: Deadline for revised versions of accepted papers.
- February 2017: scheduled publication in *J.UCS*.

Attention: Submissions to the special issue must be sent to Magnus Levin at magnus.levin@lnu.se, Subject: J.UCS special issue on Big Data. Please note that we are on a tight schedule and expect all the contributors to follow these deadlines. Please note that we are on a tight schedule and expect all the contributors to follow these deadlines.

The length of the articles should not exceed 8,000 words including references, and they must contain an abstract (150–200 words), names and affiliations of the authors.

Looking forward to your contributions!

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