

## Special Issue on When HCI Meets Data Analytics

# CALL FOR PAPERS

Human computer interaction (HCI), with the focus on improving the interaction between humans and machines, is one of the fastest growing fields in nowadays' computing era. It is an interdisciplinary field situated at the intersection of computer science, human factors, psychology, sociology, behavioural sciences, cognitive science, visualisation, design, and arts. In the recent years, the rapid development of digital technologies has generated huge amounts of data which could be used to enable and recognise human values. Data analytics (DA) hence becomes essential to understand users, to improve the HCI accuracy, efficiency, and effectiveness, and to consolidate the link between HCI and the fast-evolving technologies. On the other hand, a good HCI solution can not only generate trustable data for analytics but also present the analytic results more visually and user-friendly. In this sense, the combinations of the two should lead to a better understanding of the interaction of humans and computer, as well as to better data analytic performance.

This special issue is intended to present high quality, original research articles and review articles focused on advances of the integration of data analytics and HCI problems. Whilst there can be so many combinations between these two areas, we limit our interests to the following topics of interest. Each potential paper must cover at least one of them.

Potential topics include but are not limited to the following:

- ▶ DA for HCI: focusing on DA techniques could improve solving HCI problems.
  - ▶ Natural User Interfaces
  - ▶ Intelligent User Interfaces
  - ▶ End user development (EUD)
  - ▶ Social computing
  - ▶ Virtual reality, augmented reality, and mixed reality
  - ▶ Human robot interaction (HRI)
  - ▶ Multimodality and multimodal interfaces
  - ▶ Tangible, Embedded, and Embodied Interaction
  - ▶ Affective computing
  - ▶ Interaction design for Internet of Things (IoT)
  - ▶ Usability evaluations
- ▶ HCI for DA: focusing on HCI techniques could be used to empower people interacting with data for analytical tasks.
  - ▶ User studies (modeling, profiling, etc.)
  - ▶ Usability metrics and measurement
  - ▶ Task analysis and modelling
  - ▶ Adaptive user interfaces
  - ▶ Information visualisation

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