

Proceedings of VisBIA 2018 – Workshop on Visual Interfaces for Big Data Environments in Industrial Applications

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Preface

In today's digitized world, an overwhelming amount of still growing resources such as websites, images, texts, figures, and videos are generated. The resulting Big Data Problem does not only consist of the handling of this immense volume of data. Moreover, data needs to be processed, cleaned, and presented in a user-friendly, graphical way. Industrial applications can leverage the potential of this variety of information, thus offering more reliable, diverse, and useful services to customers.

This workshop addresses interfaces for three different user groups that are concerned with Big Data problems in industrial contexts. First, data scientists need to select, prepare and tune the algorithms needed to extract information from large data sets. This information includes clusters, classifications, and meta information about the data structures. To this end, suitable visualizations are needed to assess the way algorithms and their parameters generate the results. Second, the often needed involvement of human intervention by data workers is addressed to improve the underlying algorithms. These data workers need specialized views to inspect and compare concrete data items in a quick and effective manner. Third, end users are often overwhelmed by exploring and searching within large data sets. Today, they often have to deal with result lists produced by recommender systems working on the Big Data clusters without knowledge about the way recommendations are generated while in the future, feature-rich, adaptive, and intuitive interfaces will be expected.

The VisBIA 2018 – Workshop on Visual Interfaces for Big Data Environments in Industrial Applications took place in Resort Riva del Sole, Castiglione della Pescaia, Grosseto (Italy), on May 29. The event was co-located with AVI 2018 – International Conference on Advanced Visual Interfaces. After a careful peer-reviewing process where each paper was reviewed by at least two program committee members, a total of six papers were accepted to be presented and discussed during the VisBIA 2018 workshop. The organizers would like to thank all program committee members for their contribution by carefully reviewing the submissions and contributing to the overall quality of the VisBIA 2018 workshop. We are especially grateful for the invited talk by Benjamin Bach about Interaction Literacy in Data Science and Visualization. The organizers Dietrich Kammer and Mandy Keck are supported by the European Regional Development Fund as part of the VANDA project (project number 100238473).

May 2018

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