

## Selected Publications (Maxim Bakaev)

1. S. Heil, M. A. Bakaev, M. Gaedke. **Web user interface as a message: power law for fraud detection in crowdsourced labeling**. Lecture Notes in Computer Science, 12706: Web Engineering, 2021. P. 88-96.
2. M. Bakaev, O. Razumnikova. **What makes a UI simple? Difficulty and complexity in tasks engaging visual-spatial working memory**. Future Internet, 13 (1), 2021. P. 1-21.
3. M. Bakaev, M. Speicher, S. Heil, M. Gaedke. **I Don't Have That Much Data! Reusing User Behavior Models for Websites from Different Domains**. Lecture Notes in Computer Science, 12128: Web Engineering, 2020. P. 146-162.
4. M. Bakaev, V. Khvorostov. **Case-based genetic optimization of web user interfaces**. Lecture Notes in Computer Science, 11964: Perspectives of System Informatics, 2019. P. 10-25.
5. M. Bakaev, E. Goltsova, V. Khvorostov, O. Razumnikova. **Data compression algorithms in analysis of UI layouts visual complexity**. Lecture Notes in Computer Science, 11964: Perspectives of System Informatics, 2019. P. 167-184.
6. E. Boychuk, M. Bakaev. **Entropy and compression based analysis of web user interfaces**. Lecture Notes in Computer Science, 11496: Web Engineering, 2019. P. 253-261.
7. M. Bakaev, S. Heil, V. Khvorostov, M. Gaedke. **Auto-extraction and integration of metrics for web user interfaces**. Journal of Web Engineering, 17 (6&7), 2018. P. 561-590.
8. M. Bakaev, S. Heil, V. Khvorostov, M. Gaedke. **HCI Vision for automated analysis and mining of web user interfaces**. Lecture Notes in Computer Science, 10845: Web Engineering, 2018. P. 136-144.
9. M. Bakaev, V. Khvorostov, S. Heil, M. Gaedke. **Web intelligence linked open data for website design reuse**. Lecture Notes in Computer Science, 10360: Web Engineering, 2017. P. 370-377.
10. M. Bakaev. **The Russian reversal: from developed to emerging IT**. IT Professional, 19 (30), 2017. P. 11-13.
11. M. Bakaev, O. Razumnikova. **Defining complexity for visual-spatial memory tasks and human operator's throughput**. Large-Scale Systems Control, 70, 2017. P. 25–57. (in Russian)
12. M. Bakaev, V. Khvorostov, S. Heil, M. Gaedke. **Evaluation of user-subjective web interface similarity with Kansei engineering-based ANN**. Proc. 25 International Requirements Engineering Conference Workshops (RE 2017), Portugal, Lisbon, 2017. P. 125-131.
13. S. Heil, M. Bakaev, M. Gaedke. **Measuring and ensuring similarity of user interfaces: the impact of web layout**. Lecture Notes in Computer Science, 10041: Web Information Systems Engineering, 2016. P. 252-260.