Preface of the Special Issue Dedicated to Selected Papers from CSR 2020

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The 15th International Computer Science Symposium in Russia (CSR 2020) was organized by the Ural Federal University located in Ekaterinburg, Russian Federation. This symposium traditionally covers a broad range of topics in Theoretical Computer Science, ranging from fundamental to application-related. The edition of 2020 published its proceedings with *Lecture Notes in Computer Science* [1], as it was the case with its precursors in this conference series.

This Special Issue contains extended versions of selected contributions that were previously presented at CSR 2020. These contribution were nominated by the Program Committee of CSR 2020 by voting, based on the conference reviews and on the impression that the papers have given when being presented at the conference. This selection also shows the breadth of the research topics that have been present at CSR 2020, which is actually quite typical for this conference series, ranging from formal languages to parameterized and other forms of complexity, clearly also including algorithmic questions.

More specifically, the following papers have been chosen:

– "On the parameterized complexity of the Expected Coverage problem" by Fedor V. Fomin and Vijayaragunathan Ramamoorthi;
– "On the decision tree complexity of threshold functions" by Anastasiya Chistopolskaya and Vladimir V. Podolskii;
– "Kernelization of Arc Disjoint Cycle Packing in α-bounded digraphs" by Abhishek Sahu and Saket Saurabh;

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- "On the transformation of LL(k)-linear grammars to LL(1)-linear"
  by Ilya Olkhovsky and Alexander Okhotin;
- "Submodular functions and rooted trees"
  by Yaokun Wu and Yinfeng Zhu;
- "On embeddability of unit disk graphs onto straight lines"
  by Onur Çağırıcı.

The first mentioned paper was also elected by the CSR PC as the Best Paper of CSR 2020, while the last mentioned paper was chosen as the Best Student Paper of CSR 2020.

We like to thank all referees that worked for this Special Issue, as well as the authors who extended their previously presented abstract to nice journal papers. We hope that the readers of the Special Issue will enjoy these selected papers. Whoever likes to check out more papers from CSR 2020 is referred to either the already mentioned proceedings [1] or another Special Issue dedicated to several selected algorithmic papers that has been published with the journal *Algorithms* and features another handful of full versions of the conference papers, also see [2].

References

1. Fernau, H. (ed.): Computer Science - Theory and Applications - 15th International Computer Science Symposium in Russia, CSR 2020, Yekaterinburg, Russia, June 29 - July 3, 2020, Proceedings, Lecture Notes in Computer science, vol. 12159. Springer, Berlin (2020). https://doi.org/10.1007/978-3-030-50026-9
2. Fernau, H.: Special issue "Selected algorithmic papers from CSR 2020" Algorithms **15**(11). https://doi.org/10.3390/a15110426 (2022)