Extending Parikh q-matrices

Abstract

The notion of extending Parikh q-matrix with respect to a word instead of an ordered alphabet is introduced. Some basic properties of this extending Parikh q-matrices have been investigated. Also it has been shown that the extending Parikh q-matrix mapping can be obtained as a composition of a Parikh q-matrix mapping and a word substitution morphism.

References

Journal of Foundation of Computer Science, accepted.

5. O. Egecioglu. A q-matrix encoding extending the parikh matrix mapping. Proceedings of

6. O. Egecioglu and O.H. Ibarra. A matrix q-analogue of the parikh map. UCSB Technical


10. A. Salomaa. On the injectivity of parikh matrix mappings. Fundamenta Informatica,


12. T. F. Serbanuta. Extending parikh matrices. Theoretical Computer Science,


Index Terms

Computer Science  Applied Mathematics

Keywords

Parikh q-matrix, Extending Parikh q-matrix, scattered subword, alternating Parikh q-matrix,
q-counting subwords.