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.

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**Index Terms**

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**Keywords**

Parikh q-matrix, Extending Parikh q-matrix, scattered subword, alternating Parikh q-matrix,
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