

Hamiltonicity of token graphs of fan graphs*

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Abstract

In this note we show that the token graphs of fan graphs are Hamiltonian. This result provides another proof of the Hamiltonicity of Johnson graphs and also extends previous results obtained by Mirajkar and Priyanka on the token graphs of wheel graphs.

Keywords: Token graphs, Johnson graphs, Hamiltonian graphs.

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Hamiltonskost žetonskih grafov pahljačastih grafov*

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Povzetek

Pokažemo, da so žetonski grafi pahljačastih grafov hamiltonski. Ta rezultat daje drug dokaz hamiltonskosti johnsonskih grafov, razširja pa tudi predhodne rezultate Mirajkara in Priyanke v zvezi z žetonskimi grafi kolesnih grafov.

Ključne besede: Žetonski grafi, johnsonski grafi, hamiltonski grafi.

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