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| **Abstract:** |  |
| A masked communication context is contemplated over multiple-input multiple-output (MIMO) fading channels, in which a transmitter contacts with a group of receivers with the existence of multiple eavesdroppers. The antenna correlation is generally influenced by the antenna spacing and the angular spreading of the arriving radio waves. We have found the explicit mathematical interpretation for the ergodic secrecy multicast capacity over Ricean fading MIMO channels with uniformly distributed linear antenna array employing the elegant Jakes correlation model. Then, we explore the performance of Ricean fading channel showing the consequences of fading, antenna correlation and spacing among the antenna elements. Our outcomes show that antenna correlations appreciably reduces the ergodic secrecy multicast capacity of Ricean fading MIMO channels. | |