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The discipline of
stochastic geometry

entails the

mathematical study of
random objects defined
on some (often

Euclidean) space. In the

context of wireless
networks, the random

objects are usually
simple points (which

may represent the
locations of network
nodes such as

receivers and
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networks, by
averaging over all
potential geometrical
patterns for the nodes,
in the same way as
queuing theory
provides response
times or congestion,
averaged over all
potential arrival
patterns within a given
parametric class.
Modeling wireless
communication
networks in terms of
stochastic geometry
seems particularly
relevant
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...Stochastic geometry
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as a tool for modeling
various wireless

networks and
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performance [4]. By
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noise ratio (SINR)
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By nature, the wireless channel is a broadcast medium. Thus, transmitters sharing a common spectrum in space will interact with each other through the interference they cause. To understand the performance of communication links in such networks, stochastic geometry has been introduced as a tool by which one can model node locations as spatial Stochastic geometry models of wireless networks - Wikipedia In this dissertation, stochastic geometry based analytical models are developed to analyze the performance of some key technologies proposed for 5G mobile networks. Particularly, Device-to-Device (D2D) communication, Non-

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Overview. The discipline of stochastic geometry entails the mathematical study of random objects defined on some (often Euclidean) space. In the context of wireless networks, the random objects are usually simple points (which may represent the locations of network nodes such as receivers and transmitters) or shapes (for example, the coverage area of a transmitter) and the

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