Infill Asymptotics in Spatial Statistics

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There are two asymptotic frameworks in spatial statistics: the infill asymptotic framework and the increasing domain asymptotic framework. Recent research results show that the infill asymptotic framework in general is preferred over the increasing domain asymptotic framework in the study of properties of prediction and estimation for spatial models. However, infill asymptotics for estimation is generally difficult to derive and existing results are scarce. In this talk, a new approach is given for establishing infill asymptotic results, which is based on the examination of prediction errors.

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