

## Excitation Sompi, The Case with Insufficient Prior Information

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Inhomogeneous AR model, which is a discrete model of an inhomogeneous linear differential equation, makes it possible to design an input signal according to prior information. We, in the previous paper, presented the method of a model parameter estimation in the case with sufficient prior information of the input signal [Yokoyama et al., 1997]. In this paper, we propose the method in the case with insufficient prior information: we select an initial set of expansion basis of the input signal, then correct the mis-selection of the basis iteratively.