

عنوان مقاله:

Exploiting Observation Quality Information to Enhance the Steady-State Performance of Incremental LMS Adaptive Networks

محل انتشار:

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خلاصه مقاله:

In this paper, we investigate the effect of observation quality on the steady-state performance of incremental adaptive networks with LMS learning. We exploit the knowledge of observation quality to adjust the step-size parameter in an adaptive network according to nodes observation quality. We formulate the step-size assignment as a constrained optimization problem and then solve it via Lagrange multipliers approach. We show that applying the optimal step sizes in an incremental adaptive network improves its the steady-state performance. The simulation results are also presented to illustrate the derived theoretical results

کلمات کلیدی:

adaptive estimation; least mean-square (LMS); DILMS; distributed estimation

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