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Backtracking search integrated with sequential quadratic programming for nonlinear active noise control systems

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### Highlights

- Novel computing paradigms, BSA and BSA-SQP, for accurate, reliable and robust performance in nonlinear ANC systems.
- The cost function of ANC system is developed in mean square sense for FIR and Volterra filtering procedures.
- The correctness is established for nonlinear ANC systems with sinusoidal, random and complex random signals.
- Statistical observations validated the performance of the stochastic solvers based on both accuracy and complexity measures.

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