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Methods of adaptive control of the network in the problem of calculation of integral characteristics of complex systems. (English. Russian original) [Zbl 1058.93032](#)

[Autom. Remote Control](#) 61, No. 4, Part 1, 595-609 (2000); translation from *Avtom. Telemekh.* 2000, No. 4, 61-76 (2000).

Adaptive control is applied for the estimation of integral characteristics of complex static controllable objects. The authors construct an adaptive procedure using the Monte Carlo method by introducing piecewise smooth approximations of the density of a rather general form having a high order of accuracy.

Reviewer: [Angela Slavova \(Sofia\)](#)

MSC:

[93C40](#) Adaptive control/observation systems
[93E35](#) Stochastic learning and adaptive control
[65C05](#) Monte Carlo methods

Keywords:

[adaptive control](#); [complex systems](#); [statistical modelling](#); [Monte Carlo method](#); [piecewise smooth approximations](#)