

CURRENT PREVENTIVE CONTROL OF A TECHNICAL PROCESS ON A BASIS OF EXPONENTIAL SMOOTHENING

© 2009 A. M. Kerensky

Samara State Aerospace University

Algorithm of exponential smoothening of a time row having an arbitrary trend. This algorithm can be used at automated control of a technical process in real time conditions.

Exponential mean value, smoothening ratio, forecasting, forecasting error, control signal, trend parameter, standard decline

Kerensky Anatoly Mikhailovich, candidate of Technical Sciences, teaching staff of Samara State Aerospace University. Phone: +7 846 950 20 24. E-mail: kerensky_am@mail.ru. Area of research: automated control of technical processes.

References

1. Lukashin, Yu.P. Adaptive methods of short-term prognostication / Yu.P. Lukashin.- M.: Statistika, 1979.

2. Ljuis, K.D. Methods of prognostication of economic indicators / K.D. Ljuis. – M.: Finances and Statistics, 1986.

3. Trigg, D.W. Monitoring a forecasting system. *Operational Research Quarterly*, 15, 271, 1964. Monitoring an exponential smoothing forecasting system. – *Oper. Res. Quart.*, 1969, vol. 20, n. 3

4. Holt, C.C. Forecasting seasonals and by exponentially weighted moving averages. – *Naval Research Memorandum*, N52, 1957.