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(71) Applicant: **Joint Stock Company "Rotec"**
Moscow 115184 (RU)

(72) Inventor: **LIFSHITS, Mikhail Valerievich**
119034 Moscow (RU)

(74) Representative: **Chimini, Francesco**
Jacobacci & Partners S.p.A.
Piazza della Vittoria 11
25122 Brescia (IT)

(54) SYSTEM AND METHOD OF REMOTE OBJECT MONITORING

(57) The invention relates to the on-line monitoring and prediction system (hereinafter referred to as "OMPS") and the method used therein for determining deviations in the behaviour of the monitored object. The technical result is improvement of accuracy of prediction of deviation of operating parameters of the monitored object through application of multiple predictive models of the monitored object operation and prompt deviation detection in each model reflecting the monitored object operation in the defined mode. The claimed method for prediction of and on-line monitoring of the objects status consists in performing the stages on which the data coming from the monitored object are processed, which characterize its technical status, a reference sample of the object performance indicators is created on the basis of these data, a state matrix is formed of the components of the reference points of the reference sample, wherein the values of the said performance indicators of the monitored object are components; the MSET method is used to analyse the obtained state matrix and construct empirical models to predict the state of the monitored object, which enables to determine the probability of occurrence of critical performance states of the object and to warn on their occurrence in order to avoid the failure of either the entire object or any part of it.

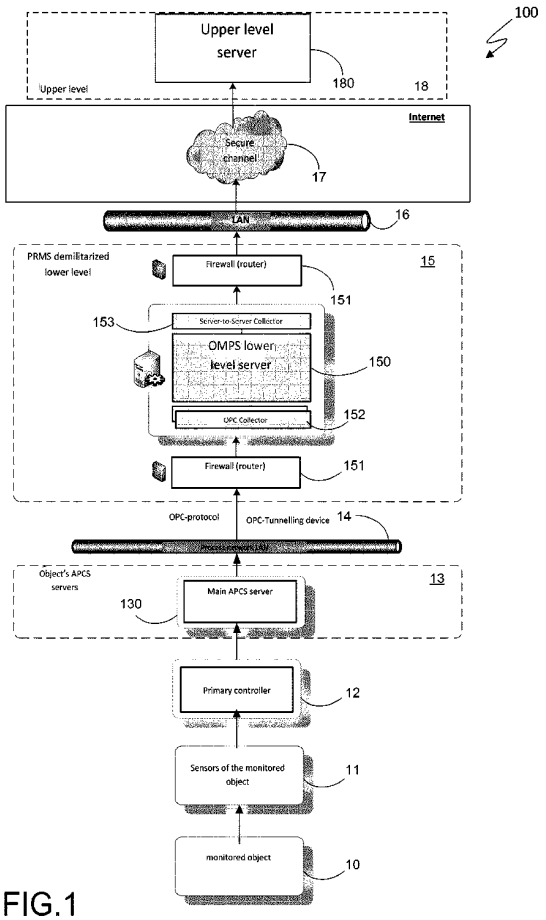

FIG.1

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