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Trans. from mono. Prague Conference on Information
Theory, Statistical Decision Functions, and Random
Processes (no. 2) [held at] Liblice, 1-6 June 59. Trans-
actions.

DESCRIPTORS: *Statistical processes, *Statistical
functions, Probability, Information theory, Mathe-
matical prediction.

A general method of obtaining Bayes' solution in the
presence of an arbitrary loss function is given for the
case when the observable and evaluated random
functions depend on a finite dimensional random vector
(Mathematics, IT, v. 7, no. 6) (over)

62-10140

1. Title: Bayes' solution
I. Pugachev, V. S.

197005

Office of Technical Services

Pugachev, V. S.

A METHOD OF DETERMINATION OF THE OPTIMUM SYSTEM FROM THE GENERAL BAYES CRITERION (Metod Opredeleniya Optimal'noi Sistemy po Obshchemu Biesoyu Kriteriyu). [1961] [23]p. (equations omitted) 12 refs. [DSIR LLU] M. 3128.

Order from OTS or SLA \$2.60

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Trans. of Akad[emiya] Nauk SSSR. Otdelenie T[ekhnicheskikh] Nauk. Izvest[iya]: Energetika i Avtomatika, 1960, no. 2, p. 83-97.

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DESCRIPTORS: *Signals, Detection, Reproduction, Noise, Statistical processes, *Probability, *Control systems.

A method is described for determining the optimum system from the general Bayes criterion in the case when the input observed function and the signal being (Engineering-Electronic, TT, v. 6, no. 10) (over)

61-27534

- 1. Title: Bayes criterion
- I. Pugachev, V. S.
- II. DSIR LLU M. 3128

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(NY-6502)

Application of the Theory of Markoff Processes
to the Analysis of the Accuracy of Automatic
Systems, by V. S. Pugahev, 15 pp.

RUSSIAN, per, Energet i Avtomat, No 3, 1961,
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Functions and Their Application in Deriving
Optimal Linear Systems, by V. B. Pugachev, 15 p.

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V. S. Pugachev, 5 pp.

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Pugachev, V. S.
TOWARD A THEORY OF DETECTION AND EVALUATION OF SIGNALS WHICH DEPEND ON A COUNTABLE SET OF PARAMETERS. [1962] 22p.
6 refs.

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Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya: Energetika i Avtomatika 1961, no. 5, p. 123-135.

DESCRIPTORS: *Signals, *Detection, *Statistical functions, Theory, Analysis, Probability, Series, Mathematical expectation.

The article presents the theory of joint canonical expansions of two random functions in one and the same system of coordinate functions, and its application to the solution of problems in the detection and evaluation (including selection) of signals which depend on an (Research Methods - Communication Theory, TT, v. 9, no. 1)
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1. Title: Optimizator
1. Pugachev, V. S.

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The General Condition for the Minimum Mean-Square
Error in a Dynamic System, by V. S. Pugachev, 8 pp.

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Jun 1956, pp 489-499.

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Law for the Integral of a System of Ordinary
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matic Control (no. 2). Proceedings,
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DESCRIPTORS: Automatic, *Control systems, Statis-
tical processes, *Statistical functions, Theory,
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II. DSIR NLL M. 3084
III. Title: All-Union...

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A METHOD OF DETERMINATION OF THE OPTIMUM SYSTEM FROM THE GENERAL BAYES CRITERION (Metod Opredeleniya Optimal'noi Sistemy po Obshchemu Biesovu Kriteriyu). [1961] [23]p. (equations omitted) 12 refs. [DSIR LLU] M. 3128.
Order from OTS or SLA \$2.60

Trans. of Akad[emiya] Nauk SSSR. Otdelenie
T[ekhnicheskikh] Nauk. Izvestiya: Energetika i
Avtomatika, 1960, no. 2, p. 83-97. 9099737

DESCRIPTORS: *Signals, Detection, Reproduction,
Noise, Statistical processes, *Probability, *Control
systems.

A method is described for determining the optimum system from the general Bayes criterion in the case when the input observed function and the signal being
(Engineering--Electronic, TT, v. 6, no. 10) (over)

61-27534

- I. Title: Bayes criterion
- I. Pugachev, V. S.
- II. DSIR LLU M. 3128

Office of Technical Services

detected or reproduced depend on a finite-dimensional random vector U while the noise is additive, has a normal distribution, and is independent of the vector U . In some cases this method can be used when the vector U has an infinite (countable) number of components. The method for the case of linear dependence of the input function on the vector $U^{(1)}$ is a special case developed by the author earlier. The method can also be applied to problems in which the input function can be reduced by means of a nonlinear transformation independent of the vector U to a sum of a certain function of vector U and the normally distributed noise independent of this vector.

PB-

61-27534

(NY-6502)

Application of the Theory of Markoff Processes
to the Analysis of the Accuracy of Automatic
Systems, by V. S. Pugachev, 15 pp.

RUSSIAN, per, *Energet i Avtomat*, No 3, 1961,
pp 46-57.

JPRS 10282

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Sci - Phys

Oct 61

Integral Canonical Representation of Random
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Red Star Series on Guided Missiles. Pt.
I. Construction and Methods of Application,
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RUSSIAN, per, Krasnaya Zvezda, 1955, 15 Feb,
pp 3,
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V. Pugachev

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...omatic Control Problems and its Application to
V. S. Pugachev, 5 pp. Table of Contents, by

RUSSIAN, ~~see~~, Gosudarstvennoe Izdatel'stvo Tekhniki
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SLA R-3087

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Pugachev, V. S.
TOWARD A THEORY OF DETECTION AND EVAL-
UATION OF SIGNALS WHICH DEPEND ON A
COUNTABLE SET OF PARAMETERS. [1962] 22p.
6 refs. 62-20232
Order from OTS or SLA \$2.60

Trans. of A[kademiya] N[auk] SSSR. O[tdelenie]
T[ekhnicheskikh] N[auk]. Izv[estiya]: Energ[etika] i
Avto[matika] 1961, no. 5, p. 123-135.

DESCRIPTORS: *Signals, *Detection, *Statistical
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The article presents the theory of joint canonical ex-
pansions of two random functions in one and the same
system of coordinate functions, and its application to
the solution of problems in the detection and evaluation
(including selection) of signals which depend on an
(Research Methods--Communication Theory, TT, v. 9,
no. 11) (over)

62-20232

1. Title: Optimization
I. Pugachev, V. S.

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Office of Technical Services

infinite (countable) set of parameters. This theory gives a general algorithm for optimal processing of input functions of systems designed for signal evaluation on the basis of any Bayes criterion corresponding to a polynomial loss function, and also of signal detection systems. (Author)

PB-

The General Condition for the Minimum Mean-Square
Error in a Dynamic System, by V. S. Pugachev, 8 pp.

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Apr 1956, pp 289-295.

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The Equation for Determining the Distribution
Law for the Integral of a System of Ordinary
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THE GENERAL THEORY OF RANDOM FUNCTIONS
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[1961] [53]p. (foreign text included) 17 refs. [DSIR
NLL.] M. 3084

Order from OTS or SLA \$5. 60

61-27556

Trans. of mono. Trudy [Vtorogo] Vsesoyuznogo
Soveshchaniya po Teorii Avtomaticheskogo Reguli-
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matic Control (no. 2). Proceedings,
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DESCRIPTORS: Automatic, *Control systems, Statis-
tical processes, *Statistical functions, Theory,
Automation.
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61-27556

- I. Pugachev, V. S.
- II. DSIR NLL M. 3084
- III. Title: All-Union...

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THE GENERAL THEORY OF RANDOM FUNCTIONS
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