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AN INDEXED BIBLIOGRAPHY ON TRACKING

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Salvatore P. Schipani

July 1990

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This document comprises a bibliography about tracking and related literature, with corresponding documentation in the form of indexed author and subject listings. Indexing was performed to enhance its utility as a reference.

Topical subjects were distinguished after a review of citations revealed repeated mention. Generally, tracking is divided into compensatory tracking (such as driving a car while keeping the vehicle within the boundaries of the road) or pursuit tracking (such as aiming a gun at a moving target while keeping the gun sight directly on the target). A complete authors list is included.

This search was partly performed through computer inquiries using the National Technical Service (NTIS) of the U.S. Department of Commerce's "DIALOG" Information Retrieval Service, and the "PSYCINFO" service of the American Psychological Association. (See reverse side)

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Continuation

19. Abstract

Sources were also manually extracted, including journal articles, Government and private sector reports, conference proceedings, and books. In some instances, direct contact was made with author(s).

The body of literature uncovered was input to a computer, and citations were given individual numbers for corresponding reference to subject(s) and author(s).

Keywords: Tracking bibliographies; Manipulators; Remote control; Target acquisition/recognition; Human performance. (RWJ)

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Salvatore P. Schipani

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PREFACE

This document comprises a bibliography about tracking and related literature, with corresponding documentation (indexed author and subject listings) to enhance its utility as a reference. This information was initially gathered to support the premise that tracking research should be considered when contemplating the development of military systems for teleoperation scenarios.

ACKNOWLEDGMENT

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AN INDEXED BIBLIOGRAPHY ON TRACKING

INTRODUCTION

The function of tracking has been best stated as any process by which one tries to maintain a relationship between an index and any freely moving target relative to it, by means of manipulating a control device. Generally, tracking is divided into compensatory tracking (such as driving a car while keeping the vehicle within the boundaries of the road) or pursuit tracking (such as aiming a gun at a moving target while keeping the gun sight directly on the target).

Human factors considerations for tracking implications began to be addressed around the turn of the century. Notable studies such as Birmingham and Taylor (1954) put the human "in-the-loop." In these studies, a human was considered to have a defined transfer function as an element in a servo loop. Later studies revealed man to have a neuromuscular time delay of about 0.17 second and a phase lag with a time constant of 0.10 second. This could be partially minimized by training.

Emphasis, when considering the human factor in tracking, must be given to constructing devices more responsive to the characteristics of the human operator, rather than having the operator adjust to the characteristics of the device. Major operator limitations found while performing in a tracking scenario were (a) perception (visual, auditory, or tactile); (b) the rate at which data may be deciphered and manipulated, causing delays; and (c) reaction time for eliciting responses. Some problems encountered while tracking were (a) predictability (the degree to which the performance of subjects will be similar); (b) learning (discovering how performance changes progressively with practice); and (c) the transfer effect (how practice affects performance on another similar task). To limit error, one must make knowledgeable selections for matching a tracking scenario with the proper control device.

INSTRUCTIONS FOR USE

To use this document as a research tool, the reader is first referred to the author index (see page 95) or subject index (see page 127), depending on the desired method of search. The citation reference numbers associated with authors and subjects in these indices correspond to articles that mention a specific author or subject. For example, if tracking literature pertaining to the entry "acuity" is desired, a subject index search for "acuity" will reveal this term mentioned in articles number 0040, 0132, 0353, and 0354. The reader should then locate these articles by their reference numbers listed numerically in the "bibliography" (see page 7).

SEARCH PROCESS

The search process for covering the available literature about tracking entailed the use of several sources. Specifically, books, scientific journals, technical reports, and conference proceedings were examined via computer inquiries of on-line literature data bases, hand library searches, cross-referencing, and direct contact with researches to identify appropriate items to be included.

Computer Inquiries

Searches were conducted using key words associated with tracking. Key words used are listed in Table 1. The DIALOG System was used to access the National Technical Information Service (NTIS) holdings.

Table 1

Key Words

Tracking
Compensatory
Pursuit
Compensatory or pursuit
Target
Acquisition
Recognition
Target and acquisition or recognition
Remote
Manipulator
Remote with manipulator
Manipulation

Hand Searches

Manual extractions of sources were made to supplement the computerized searches. One important reason for conducting this operation is that much of the literature from technical conferences is not listed on automated literature data bases, and scientific journal articles may not reflect the operational terminology that is typically used. Reference lists from articles obtained from the computer and hand searches were also cross-referenced. The following sources were reviewed:

Psychological Abstracts of the American Psychological Association

Dissertation Abstracts International
(Sciences and Engineering and for the Humanities and Social Sciences)

Annual Review of Psychology

Applied Ergonomics

Ergonomics

Journal of Experimental Psychology

Perceptual and Motor Skills

Psychological Bulletin

Human Factors

Psychological Review

Proceedings of the Annual Meetings of the Human Factors Society

The Institute of Electrical and Electronics Engineers (IEEE) Conference Proceedings

Direct Contact

Researchers, who are published or cited frequently in pertinent literature, were contacted whenever possible.

INDEXING PROCEDURE

Citations are listed alphabetically and are assigned a distinct identification number (0001-1257). Two indices using these identification numbers were constructed. The first is a complete listing of all authors, and the second is by subject and subtopical area. It is hoped that the indices will increase the use of this document.

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0336, 0385, 0449, 0816, 0985

TARGET

0033, 0043, 0045, 0046, 0077, 0111, 0132, 0135, 0137, 0139, 0201, 0302, 0335, 0353, 0419, 0424, 0558, 0565, 0586, 0592, 0597, 0598, 0600, 0612, 0644, 0704, 0725, 0746, 0768, 0770, 0786, 0815, 0823, 0908, 0909, 0917, 0926, 0927, 0944, 0964, 1014, 1016, 1059, 1084, 1089, 1096, 1104, 1127, 1128, 1155, 1159, 1161, 1162, 1169, 1176, 1223, 1228

TASK, TASKS, TASKING

0001, 0005, 0013, 0020, 0023, 0026, 0032, 0037, 0062, 0064, 0065, 0080, 0089, 0090, 0094, 0123, 0139, 0140, 0151, 0159, 0165, 0183, 0190, 0199, 0208, 0219, 0222, 0223, 0225, 0227, 0232, 0252, 0281, 0293, 0314, 0316, 0319, 0327, 0328, 0329, 0330, 0331, 0338, 0339, 0341, 0343, 0351, 0355, 0356, 0359, 0364, 0366, 0369, 0379, 0386, 0389, 0390, 0395, 0396, 0404, 0406, 0412, 0425, 0426, 0444, 0448, 0449, 0455, 0464, 0469, 0481, 0482, 0496, 0512, 0513, 0514, 0526, 0531, 0533, 0536, 0540, 0549, 0557, 0567, 0581, 0588, 0589, 0590, 0594, 0595, 0603, 0661, 0683, 0690, 0694, 0696, 0710, 0717, 0724, 0726, 0736, 0755, 0756, 0767, 0787, 0788, 0799, 0812, 0815, 0818, 0820, 0826, 0849, 0852, 0860, 0868, 0917, 0940, 0945, 0949, 0970, 0991, 0994, 1008, 1009, 1015, 1039, 1042, 1052, 1055, 1068, 1072, 1073, 1087, 1088, 1099, 1110, 1115, 1116, 1125, 1128, 1137, 1146, 1147, 1148, 1151, 1158, 1171, 1175, 1193, 1195 1202, 1203, 1204, 1206, 1217, 1218, 1224, 1231, 1256

TELEVISION

0187, 0188, 0563, 0664, 0665, 0893

TERRAIN

0774, 1040, 1041

TEST, TESTS, TESTING

0053, 0060, 0061, 0098, 0117, 0189, 0243, 0257, 0289, 0315, 0357, 0358, 0378, 0480, 0526, 0582, 0695, 0912, 0965, 1131, 1143, 1226, 1246, 1251

THRESHOLD

0794

TIME

0014, 0051, 0073, 0089, 0090, 0092, 0110, 0115, 0117, 0119, 0125, 0132, 0133, 0157, 0166, 0222, 0226, 0231, 0261, 0265, 0326, 0360, 0364, 0396, 0414, 0418, 0453, 0464, 0481, 0513, 0514, 0588, 0632, 0639, 0700, 0710, 0711, 0734, 0755, 0756, 0797, 0801, 0817, 0839, 0856, 0894, 0920, 0925, 0953, 0964, 0982, 0983, 1000, 1039, 1052, 1123, 1125, 1158, 1165, 1167, 1208, 1210, 1211, 1212

TRAIN, TRAINING, TRAINED

0125, 0156, 0157, 0165, 0192, 0203, 0205, 0216, 0217, 0245, 0266, 0273, 0285, 0294, 0360, 0361, 0387, 0428, 0450, 0454, 0504, 0528, 0555, 0577, 0623, 0660, 0694, 0700, 0718, 0770, 0804, 0818, 0821, 0888, 0919, 0921, 0963, 1029, 1037, 1067, 1206, 1221, 1235, 1247

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TRANSFER, TRANSFERENCE, TRANSFERAL

0032, 0035, 0081, 0124, 0125, 0165, 0222, 0226, 0281, 0285, 0294, 0329, 0387, 0425, 0428, 0445, 0451, 0647, 0660, 0819, 0823, 0919, 0921, 1206, 1222, 1235

UNIPOLAR

0475, 0652

VARIABLE, VARIABLES, VARIABILITY

0003, 0011, 0028, 0047, 0068, 0110, 0149, 0265, 0306, 0361, 0362, 0383, 0384, 0420, 0421, 0441, 0529, 0573, 0811, 0815, 0823, 0833, 1000, 1055, 1204, 1251

VARIATION

0614, 0918, 0919, 0920, 0921, 0922, 1049, 1135, 1183

VELOCITY

0033, 0096, 0108, 0234, 0324, 0332, 0382, 0423, 0424, 0586, 0600, 0749, 0862, 0906, 0924, 0926, 0961, 1084, 1220, 1253

VIBRATION

0022, 0105, 0142, 0197, 0242, 0369, 0373, 0427, 0447, 0521, 0656, 0657, 0726, 0937, 0938, 0950, 1185, 1225

VISION

0006, 0240, 0500, 1118

VISUAL

0023, 0026, 0040, 0055, 0086, 0100, 0101, 0146, 0147, 0157, 0180, 0186, 0190, 0197, 0230, 0234, 0276, 0291, 0300, 0302, 0345, 0347, 0352, 0353, 0354, 0371, 0387, 0392, 0422, 0448, 0450, 0460, 0461, 0462, 0463, 0496, 0497, 0517, 0528, 0538, 0539, 0541, 0544, 0545, 0558, 0588, 0638, 0663, 0685, 0689, 0698, 0701, 0702, 0704, 0750, 0755, 0756, 0757, 0769, 0776, 0791, 0809, 0815, 0824, 0846, 0854, 0855, 0859, 0868, 0878, 0904, 0917, 0936, 0959, 0985, 1008, 1045, 1047, 1057, 1076, 1077, 1078, 1090, 1102, 1119, 1155, 1160, 1167, 1169, 1170, 1193, 1247

WORKLOAD

0146, 0175, 0176, 0614, 0717, 0779, 0928, 1049, 1202