

MULTIPLE-  
TASK

PERFORMANCE



EDITED BY  
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# Multiple Task Performance

**D Damos**



## Multiple Task Performance:

**Multiple Task Performance** D Damos, 2020-07-24 This book deals with theories of multiple task performance and focuses on learning and performance It is primarily for professionals in human factors psychology or engineering who are interested in multiple task performance but have no formal training in the area Multiple Task Performance D Damos, 2020-07-24 This book deals with theories of multiple task performance and focuses on learning and performance It is primarily for professionals in human factors psychology or engineering who are interested in multiple task performance but have no formal training in the area *Response Strategies and Individual Differences in Multiple-Task Performance* Diane L. Damos, Thomas E. Smist, STATE UNIV OF NEW YORK AT BUFFALO AMHERST DEPT OF INDUSTRIAL ENGINEERING., 1981 Three experiments examining individual differences in multiple task performance are presented Experiment I examined whether the response strategies used to perform two discrete information processing tasks reflected individual differences in information processing at high levels of workload or simply were selected at random Each subject's response strategy first was identified as either a simultaneous an alternating or a massed strategy Then some of the subjects were asked to change strategy The results indicated that the massed response strategy subjects had less well developed timesharing skills and were not able to process information under multiple task conditions as well as the other subjects regardless of the response strategy used The results were interpreted as evidence that response strategies represent fundamental differences in multiple task information processing Experiments II and III attempted to locate the source of the differences observed in Experiment I Experiment II examined the relation between multiple task performance in two different task combinations and cerebral lateralization in multiple limb coordination and four tests of cognitive style No significant relations were found **Multiple-Task Performance: A Critical Review of the Literature and a Cognitive Neuroscience Framework** J. E. Korteling, PRINS MAURITS LABORATORIUM TNO RIJSWIJK (Netherlands), 1994 In our modern society technological developments have altered the nature of jobs and tasks In many work situations operators are required to monitor control and manipulate information via complex technological systems Such systems typically involve performance of several tasks in a limited period of time In order to be able to optimize such technological systems knowledge with regard to complex task performance is needed based on which technical products processes and systems involved in daily life can be matched to the capabilities and limitations of people A Computational Theory of Executive Cognitive Processes and Human Multiple-Task Performance. Part 1. Basic Mechanisms, 1996 Persistent controversies about human multiple task performance suggest that research on it will benefit from increased use of precise computational models Toward this objective the present report outlines a comprehensive theoretical framework for understanding and predicting the performance of concurrent perceptual motor and cognitive tasks The framework involves an Executive Process Interactive Control EPIC architecture which has component modules that process information at perceptual cognitive and

motor levels On the basis of EPIC computational models that use a production system formalism may be constructed to simulate multiple task performance under a variety of conditions These models account well for reaction time data from representative paradigms such as the psychological refractory period PRP procedure With modest numbers of parameters good fits between empirical and simulated reaction times support several key conclusions 1 at a cognitive level people can apply distinct sets of production rules simultaneously for executing the procedures of multiple tasks 2 there is no immutable central response selection or decision bottleneck 3 people's capacity to process information and take action at peripheral perceptual motor levels is limited 4 to cope with such limits and to satisfy task priorities flexible scheduling strategies are used 5 these strategies are mediated by executive cognitive processes that coordinate concurrent tasks adaptively The initial success of EPIC and models based on it suggest that they may help characterize multiple task performance across many domains including ones that have substantial practical relevance *Multiple-task Performance and Aging* J. E.

Korteling,1994 *Multitasking: Executive Functioning in Dual-Task and Task Switching Situations* Tilo Strobach, Mike Wendt, Markus Janczyk,2018-03-27 Multitasking refers to performance of multiple tasks The most prominent types of multitasking are situations including either temporal overlap of the execution of multiple tasks i e dual tasking or executing multiple tasks in varying sequences i e task switching In the literature numerous attempts have aimed at theorizing about the specific characteristics of executive functions that control interference between simultaneously and or sequentially active component of task sets in these situations However these approaches have been rather vague regarding explanatory concepts e g task set inhibition preparation shielding capacity limitation widely lacking theories on detailed mechanisms and or empirical evidence for specific subcomponents The present research topic aims at providing a selection of contributions on the details of executive functioning in dual task and task switching situations The contributions specify these executive functions by focusing on 1 fractionating assumed mechanisms into constituent subcomponents 2 their variations by age or in clinical subpopulations and or 3 their plasticity as a response to practice and training **A Composite Model of**

**Multiple-task Performance** Rainer Wieland-Eckelmann,1992 Human Multiple-task Performance in Cell-phone Usage and Driving Cerita Diane Jones,1998 **Computational Modeling of Human Multiple-Task Performance and Mental Workload** ,2004 This report summarizes the results of an extended project in which a computational modeling system for human cognition and performance named EPIC Executive Process Interactive Control was developed applied to several types of tasks to accurately represent human performance and inspired to collection of new data that cast new light on the scientific analysis of key phenomena in human performance and cognition The report summarizes the accomplishments of the project and includes a complete list of publications and presentations of the project work Transfretasse legitur in duabus navibus , A composite model of multiple-task performance Rainer Wieland,1992 **Probe Reaction Time as an Index of Multiple-task Performance** Paul Stager,1976 Test of multiple task performance Hans-Jürgen Hörmann,Georg

H. Finell, Dietrich Manzey, 1989      **Processing Resources in Attention, Dual Task Performance, and Workload Assessment** Christopher D. Wickens, ILLINOIS UNIV AT URBANA ENGINEERING-PSYCHOLOGY RESEARCH LAB., 1981

This report develops the concept of multiple resource theory in dual task performance and describes its relation to the measurement of operator work load. Structural and capacity theories of attention and time sharing are contrasted and the latter are then elaborated to describe the quantitative relation between resources and performance and the representation of dual task data by the performance operating characteristic within a resource framework. Some deficiencies with a single resource undifferentiated capacity model of time sharing are pointed out and the multiple resources model is introduced. Data are presented supporting a specific model that defines resources by stages of processing codes of processing and modalities of encoding. This report discusses the relation between multiple resources and operator performance strategies and different measures of operator workload. The different implications of multiple resource theory on primary task, secondary task, and physiological and subjective measures of workload and the relations between these are considered.      **Aging and Multiple-task-performance** Jennifer Margaret Burns Glass, 1996      **Computational Modeling of Human Multiple-Task Performance**, 2005

This is the final report for a project that was a continuation of an earlier long term project on the development and validation of the EPIC cognitive architecture for modeling human cognition and performance. The report summarizes the results and lists the products and publications resulting from the project. These include the modeling system software, tutorials, fundamental architecture development, modeling of visual search, and empirical work on working memory and procedure learning.      *Independent Concurrent Processing in Dual-task Performance* Eric H. Schumacher, 1998      **Individual Differences in Dual-Task Performance** Diane L. Damos, Thomas E. Smist, STATE UNIV OF NEW YORK AT BUFFALO AMHERST DEPT OF INDUSTRIAL ENGINEERING., 1980

Eleven right handed males participated in an experiment examining individual differences in multiple task performance. Three task combinations were used in the study. The first was composed of a memory task and a classification task. The second consisted of two identical one dimensional compensatory tracking tasks. The third was a dichotic listening task. On Day 1 of the experiment the subjects practiced each task alone. On Days 2, 3, and 4 they performed primarily under dual task conditions. However, periodically dual task practice was interrupted to reassess single task performance. All dual task data were analyzed first to determine when stability occurred. Each subject's stabilized data from the tracking, tracking and memory classification combinations then were corrected for the appropriate single task baseline. Finally the subjects were grouped according to which of three response strategies they used to perform the memory classification task combination. These strategies were a massed strategy in which the subject would emit a series of response to one task before responding to the other, an alternating responses strategy, and a simultaneous response strategy. A two way repeated measures MANOVA conducted on the stabilized adjusted data indicated both a significant effect of trials and groups. Possible sources of the between group

differences are discussed Author **An Investigation of Factors Affecting Multi-task Performance**, 2007 This report presents the results of the first in a series of investigations designed to increase fundamental knowledge and understanding of the factors affecting multi task performance in a military environment The primary objective of this laboratory experiment was to measure and quantify the effects of individual differences on human performance in a multi task environment The secondary objective was to observe the effects of previous computer experience and practice and to determine which relationships if any exist between personality and self efficacy traits and multi task performance In this study each of 76 civilian and military participants completed a battery of questionnaires designed to gather information about individual differences Included were a demographics questionnaire that solicited information regarding age gender vision and hearing military service and computer use and experience the Zuckerman Kuhlman Personality Questionnaire Form III which identifies five components of personality in five subscales including activity aggression hostility sociability neuroticism anxiety and impulsive risktaking the polychronicity scale which measures the extent to which individuals prefer working on several tasks at once as opposed to working on only one task at a time and the Situational Self Efficacy SSE scale which measures the participants level of confidence in their ability to do a task well After completion of the questionnaires multi task performance was measured using SYNWORK Synthetic Work Environment a computer based synthetic work environment that runs on a personal computer or a laptop Elmsore 1994 Participants were required to work simultaneously on four distinct tasks that were presented on a computer screen Sternberg memory three column addition visual tracking and signal discrimination These tasks required continuous attention and involved memory arithmetic processing and visual and auditory monitoring Pearson correlation coefficients were computed to determine relationships between questionnaire responses and SYNWORK scores Overall SYNWORK scores showed a significant negative correlation with age group neuroticism and impulsivity and a significant positive correlation with trial In addition significant positive correlations existed between total SYNWORK scores and components of the polychronicity scale Results indicated that participants who preferred working on several projects at a time scored higher overall on the SYNWORK task Multivariate analyses conducted on individual and overall task performance measures indicated a significant interaction between age group and trial Consistent with our expectations it was found that initially younger adults performed better on multi task performance but all age groups improved performance with practice Multiple regression analyses were conducted on overall task performance measures The variable that is consistently retained at the end of the stepwise regression analyses is the N Anxiety subscale of the personality questionnaire Those less prone to emotional upsets or worrying performed better at multi task monitoring than people who were more reactive and sensitive to criticism When age education level and neuroticism were included in the model 32.5% of the variance was explained Cluster analysis was used to examine the effect of individual differences on the performance outcome An analysis of the SSE variable revealed two distinct groups of individuals with high and low levels

of confidence in their ability to do well Post hoc analyses indicated that people who reported high SSE performed significantly better at multitask monitoring than those who reported lower SSE level

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