JUDGMENT/DECISION MAKING

J/DM MEETING: NOVEMBER 15-16

The 1992 J/DM meeting will be at the Adams Mark Hotel in St. Louis, November 15-16. Information will be sent as it becomes available. The program committee members are Barbara Mellers, George Loewenstein, and Colin Camerer. Submission information was sent in May. There is still time to submit an application for the Sunday evening poster session. The required application form is on Page 4 of the Newsletter. The deadline is July 15, 1992.

J/DM NOMINATIONS DUE

A nominations ballot for officers of the Society is on Page 5. Nominations are for President-Elect and for a member of the Executive Board. The Executive Board member will fill the position vacated by Daniel Kahneman. Baruch Fischhoff, as Past President, is also leaving the board. Please take part in the governance of the Society and cast your ballot as soon as possible. The deadline for receipt of ballots is July 31, 1992.

NEW J/DM NEWSLETTER EDITOR

After 11 years as the founding editor of the JIDM Newsletter, John Castellan has retired from the position to take on other duties. John is currently serving as a Program Director of the Decision, Risk, and Management Science Program of the National Science Foundation. The J/DM Society owes a great debt to John for all his efforts in introducing and maintaining the newsletter. Before there even was a society, the JIDM Newsletter provided an identity which attracted a growing readership, and which paved the way for the society's development. On behalf of the society, I express our gratitude and best wishes. Thank you John!

Personally, I also thank John for helping me with the transition of the editorship from him to me. His help is greatly appreciated. I hope that I can continue the attention to quality that has characterized his eleven years of service. I also hope to have the continuing support of the J/DM members in contributing to the newsletter. The newsletter's success depends upon your contributions. I encourage everyone to contribute to the J/DM Newsletter. My addresses and phone numbers appear on page 2. Please let me hear from you.

---Shawn Curley

CONTENTS
From the Editor
Decision Analysis Student Prize Competition
J/DM Poster Submission Form4
J/DM Executive Board Nominations Ballot
OBHDP Silver Jubilee and Special Subscription Rates
Behavioral Decision Making Special Subscription Rates
New Journal of Multi-Criteria Decision Analysis
Recent Developments in the Psychology of Judgment and Decision Making 9
Recent Developments in Medical Decision Making
Recent Developments in the Psychology of Judgment and Decision Making14
New Books
New Software
Dues and Address Correction Form
Forthcoming Meetings

SUBMISSION DEADLINE FOR THE NEXT JIDM NEWSLETTER: September 1, 1992



SOCIETY FOR JUDGMENT AND DECISION MAKING

EXECUTIVE BOARD Robin Hogarth, President Daniel Kahneman, President-Elect Baruch Fischhoff, Past President J. Frank Yates, 1991-1993 Barbara Mellers, 1992-1994 Terry Connolly, Secretary/Treasurer

J/DM NEWSLETTER

Editor:

Shawn P. Curley Department of Info & Decision Sciences University of Minnesota 271 19th Avenue S. Minneapolis, MN 55455

(612) 624-6546 FAX: (612) 626-1316

INTERNET: scurley@csom.umn.edu

Dues, Addresses & Corrections:

Terry Connolly Management and Policy Department Business and Public Administration University of Arizona Tucson, Arizona 85721

(602) 621-5937

INTERNET: connolly@ccit.ariz.edu

FROM THE EDITOR...

The J/DM Newsletter welcomes submissions from individuals and groups. However, we do not publish substantive papers. Book reviews will be published. If you are interested in reviewing books and related materials, please write to the editor.

There are few ground rules for submissions. In order to make the cost of the J/DM Newsletter as low as possible, please submit camera-ready copy. This means that the copy should be typed single-spaced on white 8½ by 11 paper. If possible, use a carbon or film ribbon. Please mail flat -- do not fold. A better alternative is to submit your contribution via EMAIL.

Subscriptions: Subscriptions are available on a calendar year basis only. Requests for information concerning membership in the Society for Judgment and Decision Making should be sent to Terry Connolly.

Address correction: Please check your mailing label carefully. Because the J/DM Newsletter is usually sent by bulk mail, copies with incorrect addresses or which are otherwise undeliverable are neither forwarded nor returned. Therefore, we have no way of knowing if copies are delivered. Address changes or corrections should be sent to Terry Connolly.

Mailing Labels: Some readers may wish to send reprint lists or other material to people listed in the directory. Contact Terry Connolly for details.

J/DM Electronic Mail Directory: The Society maintains an EMAIL directory. To add your name to the J/DM Electronic Mail Directory (or to receive a copy of the electronic directory) contact Terry Connolly.

The Operations Research Society of America Special Interest Group on Decision Analysis Announces The Seventh Annual **Decision Analysis Student Paper Competition**

For the seventh consecutive year, the ORSA Special Interest Group on Decision Analysis solicits entries in a competition among papers written by students. In the past, submissions have spanned a wide range of decision analysis topics and research methods, including both theoretical and applied work. We encourage entries from all aspects of decision analysis, as reflected in the sessions sponsored by the Special Interest Group at recent ORSA/TIMS national meetings.

To enter, send five copies of your written paper by July 15, 1992 to

Prof. Ross D. Shachter

Stanford University

J/DM Newsletter

Department of Engineering-Economic Systems

Terman Engineering Center

Phone: (415) 723-4525 Internet: shachter@bayes.stanford.edu

Stanford, CA 94305-4025

Please include a cover letter with your current address, telephone number, and current employer. Also state the academic institution at which the work was performed, degree, graduation date, and supervising faculty.

Conditions. The paper should be less than thirty double-spaced, typewritten or wordprocessed pages. Papers may be coauthored with a faculty member provided they are based on the student's work while a student (such as a dissertation or thesis) and the student is listed as the first author. Individuals who graduated in or before June, 1991 are not eligible.

Judging. A panel of judges chaired by Prof. Shachter will judge the papers using the criteria described in the editorial policy of Operations Research. The panel can elect not to award the prize if none of the papers submitted is considered a sufficient contribution to decision analysis. The competitors will be notified of the outcome by the end of September, 1992.

Presentation and Award. The winner will be scheduled to present his or her paper at the ORSA/TIMS Joint National Meeting in San Francisco, CA, November 1-4, 1992. The winner will also receive a five hundred dollar cash award and an invitation to a celebratory dinner with representatives of the Special Interest Group. It is hoped that the winner's employer will provide travel funds so that the winner can attend the meeting.

Please contact Prof. Shachter if you have any questions or comments.

June 1992

J/DM Newsletter

J/DM Newsletter

June 1992

Page 5

POSTER PRESENTATION APPLICATION (Please type) Society for Judgment and Decision Making, St. Louis Missouri

1. Author 1:	Author 2:
Institution:	Înstitution:
Member? Yes No	Member? Yes No
Author 3:	Author 4:
Institution:	Institution:
Member? Yes No	Member? Yes No

- 2. Title of Presentation (10 words or fewer)
- 3. Abstract (75 words or fewer)

4. Person to whom correspondence should be addressed:

Name:		
·		_

Address:

5. Mail application to George Loewenstein, Department of Social and Decision Sciences, Carnegie Mellon University, Pittsburgh, PA 15213-3890

DEADLINE FOR APPLICATIONS: JULY 15, 1992

Nominations for J/DM Executive Board Members

The Society Bylaws provide for election of two officers each year: the President-Elect (who thereafter becomes President, then Past President, and then leaves the Board); and one member of the Executive Board (who simply serves for three years, and then rotates off). The first step is the nomination of candidates for these posts, which is the task of the membership — i.e. YOU. A ballot will be mailed to you in the next few weeks.

Please take a moment to think of people you would like to see leading our Society. You may nominate up to FIVE for the Board, up to TWO for President-Elect. (Note that ex-Presidents are not eligible for reelection as President, though they may serve as Board members. Any Presidential nominations ineligible by this rule will be counted as Board nominations). Do nominate at least a few candidates — quite modest numbers of nominations have put candidates on the ballot in past years.

Terry Connolly Secretary/Treasurer

Nominate	uр	to	<u>five</u>	people	as	candidates	for	the	Executive	Board:	
1						_					
2				<u>;</u>		_					
3			-			_					
4	··-·					_					
5				7		_					
Nominate	up	to	two 1	people a	as (candidates i	for 1	Pres	ident-Elect	: :	
1					· · · · ·						
2											

Return your nominations to:

J/DM Nominations c/o Terry Connolly Dept of Mgt and Policy, BPA University of Arizona Tucson, AZ 85721

or send by email:

CONNOLLY@ccit.arizona.edu

NOMINATIONS MUST BE RECEIVED BY

JULY 31, 1992

J/DM Newsletter June 1992 Page 6

ANNOUNCING A SPECIAL SILVER ANNIVERSARY YEAR FOR ORGANIZATIONAL BEHAVIOR AND HUMAN DECISION PROCESSES

In 1992 Organizational Behavior and Human Decision Processes will expand to nine issues (Volumes 51-53) in order to publish a series of special issues on topics of current interest in judgment and decision making. The special issues that will appear in 1992, in addition to the normal manuscript flow, are:

- 1. Decision Processes in Negotiation (7 papers) Max H. Bazerman and Margaret A. Neale, Editors
- 2. Group Decision Making (6 papers) James H. Davis, Editor
- 3. Utility Measurement (10 papers) Michael H. Birnbaum, Editor
- 4. Experts and Expert Systems (8 papers) James Shanteau and Thomas Stewart, Editors

The journal will be published monthly in 1992 except for January, May, and September. Normal publication of two volumes per year will resume in 1993.

These special issues, along with the special issue entitled:

Theories of Cognitive Self-Regulation (6 papers) Distriction is, androwing the the the Edwin A. Locke, Editor

which will appear in the December 1991 issue, comprise a celebration of the 25th anniversary of the Journal, which first appeared in September 1966.

SPECIAL SUBSCRIPTION RATES FOR OBHDP SILVER ANNIVERSARY YEAR

Special subscription rates to the 1992 issues (Volumes 51-53) of Organizational Behavior and Human Decision Processes are available for members of the Society for Judgment and Decision Making. Please send a personal check made out to ACADEMIC PRESS according to the following schedule:

J/DM Member rates are \$91.00 (domestic rate) and \$110.00 (overseas rate). Send orders to:

Ms Elinor Berner Journal Division Academic Press, Inc. 1250 Sixth Avenue San Diego, CA 92101 Student rates are \$75.75 (domestic) and \$84.75 (overseas). Student subscriptions should be mailed

Academic Press, Inc. 1 East First Street Duluth, MN 55802

When subscribing to the Journal, please state that you are a current member of J/DM. Please note that University checks are no longer accepted by Academic Press -- only personal checks are accepted. Questions regarding subscriptions should be made to the appropriate Academic Press office. (See inside front cover of OBHDP for regular subscriptions or inside back cover for Society subscriptions.)

Page 7 J/DM Newsletter June 1992

IOURNAL OF BEHAVIORAL DECISION MAKING

Special Rates for J/DM Members

Privileged personal subscription rates for the Journal of Behavioral Decision Making are available to members of the J/DM Society. The 1992 rates are US \$50. Personal subscriptions must be prepaid by personal check or credit card.

Institutional subscription rates for Volume 5 (1992) are US \$155, and individual subscriptions are US \$78.

Please send your order to either of the following addresses:

Subscription Dept C, John Wiley & Sons, Inc. 605 Third Avenue New York, NY 10158 USA Sarah Stevens/BDM John Wiley & Sons, Ltd. Baffins Lane. Chichester West Sussex, P019 1UD UK

Journal of Behavioral Decision Making Scheduled for 1992

Diagnosticity, confidence and the need for L. Van Wallendael and Y Guignard information.

The effects of screening and task partitioning upon evaluation of decision options.

E.H. van Zee, T.F. Paluchowski and L.R. Beach (commentary by G. Pitz)

The effect of constant outcome value in judgments and decision making given linguistic probabilities.

B.L. Cohen and T.S. Wallsten

The need for contextual and technical knowledge in forecasting.

N.R. Saunders and L.P. Ritzman

Hypothetical and real consequences in experimental auctions for insurance against lowprobability events.

J.R. Irwin, G.H. McClelland and W.D. Schultz

A theory of certainty equivalents for uncertain alternatives.

R.D. Luce

Experiences extended across time: Evaluation of C. Varey and D. Kahneman moments and episodes.

Judging the strength of designated evidence.

L.K. Briggs and D.H. Krantz

Provision of step-level public goods with

R. Suleiman and A. Rapoport

continuous contribution.

JOURNAL OF

Multi-Criteria Decision Analysis

EDITOR Simon French School of Computer Studies, University of Leeds, Leeds, LS2 9JT

ASSOCIATE EDITORS
Dennis M. Buede
School of Information Technology
and Engineering,
George Mason University,
Fairfax, Virginia 22030-4444, USA

Jaap Spronk
Erasmus Universiteit,
Postbus 1738,
3000 DR Rotterdam,
The Netherlands

Philippe Vincke U.L.B. CP210, Bd de Triomphe, 1050 Bruxelles, Belgium

Stan Zionts
School of Management
SUNY, Buffalo
YN 14214, USA

Scope of the Journal

The Journal of Multi-criteria Decision Analysis aims to provide an international forum for the presentation and discussion of all aspects of research, application and evaluation of multi-criteria decision analysis. The Journal seeks to publish material from a variety of disciplines and all schools of thought. Case studies, applications and evaluation of techniques and methodologies will be particularly welcome.

Papers published in the Journal will encompass, but not be limited to, the following areas of MCDA:

- * Mathematical and theoretical foundations
- * Algorithmic aspects and human
- * Psychological, behavioural, and organisational bases
- * Case studies and implementation of MCDA procedures
- * Practical evaluation of methodologies
- * Teaching of MCDA to students and decision makers

Letters to the editor discussing any aspect of MCDA will be encouraged. Book and software reviews will also be published.

Call for Papers

The Journal of Multi-Criteria Decision Analysis seeks to become the international forum for MCDA and, therefore, seeks papers of the highest quality. As well as the originality and significance of the content, an important criterion will be that a paper is well written in terms of style and accessibility to as wide an academic and professional readership as possible.

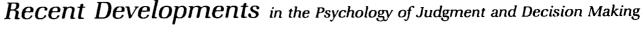
Please send all submissions (four copies in English) to:

Simon French General Editor School of Computer Studies University of Leeds Leeds, LS2 9JT

JOURNAL OF MULTI-CRITERIA DECISION ANALYSIS NOTES FOR CONTRIBUTORS

[] Please send me full notes for contributors						
Nam	t					
Add	58:					

Please return to: Sarah Stevens, Marketing Dept, John Wiley & Sons Ltd, Baffins Lane, Chichester, West Sussex, PO19 1UD, UK



Compiled by JAY CHRISTENSEN-SZALANSKI, PhD, MPH

Journal Articles

ABUALSAMH RA, Carlin B, McDaniel RR Jr. Problem structuring heuristics in strategic decision making. Organ Behav Hum Decis Proc. 1990:45:159–74. Finds that subjects using a convergent or a divergent structuring heuristic were less satisfied and less confident than those using a limited structuring heuristic.

ALLISON ST, Messick DM. Social decision heuristics in the use of shared resources. J Behav Decis Making. 1990;3:195–204. Finds that subjects anchored their allocation decisions on the rule that resources should be allocated equally among participants.

ALLISON ST, Worth LT, King MWC. Group decisions as social inference heuristics. J Pers Soc Psychol. 1990;58:801–11. Suggests that people use group decision outcomes as heuristic cues to judge group members' attitudes.

ANDREASSEN PB. Judgmental extrapolation and market over-reaction: on the use and disuse of news. J Behav Decis Making. 1990;3:153-74. Cońclúdes that news reports as normally provided by the media affect investors' forecasts by increasing the salience of any trend.

ARGOTE L, Devadas R, Melone N. The base-rate fallacy: contrasting processes and outcomes of group and individual judgment. Organ Behav Hum Decis Proc. 1990;46:296–310. Reports that group discussion appears to amplify the tendency to judge primarily by representativeness when the individuating information is informative.

ASIITON RH, Ashton AH. Evidence-responsiveness in professional judgment: effects of positive versus negative evidence and presentation mode. Organ Behav Hum Decis Proc. 1990;46:1–19. Finds that auditors show a surprising amount of sensitivity to new information that is inconsistent with their current beliefs.

BATTALIO RC, Kagel JH, Jiranyakul K. Testing between alternative models of choice under uncertainty: some initial results. J Risk Uncertain. 1990;3:25–50. Finds risk-seeking behavior in cases where prospect theory predicts risk aversion.

BODENHAUSEN GV. Second-guessing the jury: stereotypic and hindsight biases in perceptions of court cases. J Appl Soc Psychol. 1990;20:1112–21. Observes that subjects' evaluation of the incriminating nature of evidence was altered when they were informed of the trial outcome.

Brown RV. Assessment uncertainty technology for making and defending risky decisions. J Behav Decis Making. 1990;3:213-28. Proposes a practical methodology for applying assessment uncertainty technology to decision making.

Brunsson N. Deciding for responsibility and legitimation: alternative interpretations of organizational decision-making. Account Org Soc. 1990;15:47-59. Suggests that decision mak-

ing in organizations serves several purposes other than to make choices, and that these roles can alter the appropriateness of rational decision making.

Budescu DV, Wallsten TS. Dyadic decisions with numerical and verbal probabilities. Organ Behav Hum Decis Proc. 1990;46:240–63. Observes results that support the notion that vague expressions of probability can be represented by a membership function over the [0, 1] interval.

Carlson BW. Anchoring and adjustment in judgments under risk. J Exp Psychol [Learn]. 1990;16:665-76. Proposes that people use an anchoring and adjustment process when forecasting what is likely to happen in a play of a gamble.

CLEMEN RT, Murphy AH. The expected value of frequency calibration. Organ Behav Hum Decis Proc. 1990;46:102–17. Develops a conceptual model of the probability assessment process and shows how to calculate the expected value of frequency calibration.

CONNOLLY T, Bukszar EW. Hindsight bias: self-flattery or cognitive error? J Behav Decis Making. 1990;3:205–11. Suggests that the hindsight bias is a result of cognitive and not motivational factors.

Curley SP, Yates JF, Young MJ. Seeking and applying diagnostic information in a health care setting. Acta Psychol. 1990;73:211–23. Reports that people have difficulty applying conditional probabilities in making diagnoses.

Daniels RL, Keller LR. An experimental evaluation of the descriptive validity of lottery-dependent utility theory. J Risk Uncertain. 1990;3:115–34. Presents two approaches for calibrating lottery-dependent expected utility models and reports that lottery-dependent utility models exhibit a higher potential for prediction of choice than expected utility models.

Dawes RM, Faust D, Meehl PE. Clinical versus actuarial judgment. Science. 1989;243:1668-74. Discusses sources of resistance to the finding that actuarial models are better than clinical models.

DYER JS. Remarks on the analytic hierarchy process. Manage Sci. 1990;36:249–58. Concludes that the analytic hierarchy process is a flawed procedure for ranking alternatives. [Comments follow: Winkler RL. Decision modeling and rational choice: AHP and utility theory. Manage Sci. 1990;36:247–8. Saaty TL. An exposition of the AHP in reply. Manage Sci. 1990;36:259–68. Harker PT, Vargas LG. Reply. Manage Sci. 1990;36:269–73. Dyer JS. A clarification. Manage Sci. 1990;36:274–5.]

EDWARDS W, Schum DA, Winkler RL. Murder and (of?) the likelihood principle: a trialogue. J Behav Decis Making. 1990;3:75–87. Discusses the role of the likelihood ratio in single and multi-state inference. [Comment follows: Hazen GB. A Comment. J Behav Decis Making. 1990;3:87–89.]



GILHOOLY KJ. Cognitive psychology and medical diagnosis. Appl Cog Psychol. 1990;4:261–72. Examines reasons for the observations that research on physicians yields results that differ from those obtained from experts in other fields.

HALPERN DF, Blackman S, Salzman B. Using statistical risk information to assess oral contraceptive safety. Appl Cog Psychol. 1989;3:251–60. Concludes that consumers convert statistical risk information into judgments about magnitude of the number presented and use this information when making risk judgments.

HARMON J, Rohrbaugh J. Social judgment analysis and small group decision making: cognitive feedback effects on individual and collective performance. Organ Behav Hum Decis Proc. 1990;46:34–54. Reports that significantly greater individual learning and group consensus occurred when subjects were given cognitive feedback.

HERSHEY DA, Walsh DA, Read SJ, Chulef AS. The effects of expertise on financial problem solving: evidence for goal-directed, problem-solving scripts. Organ Behav Hum Decis Proc. 1990;46:77–101. Reports results that support a script-based model of expert performance.

HOGARTH RM, Einhorn HJ. Venture theory: a model of decision weights. Manage Sci. 1990;36:780–803. Proposes a model to account for how people replace probabilities by decision weights when evaluating risky outcomes.

HUBER VL, Northcraft GB, Neale MA. Effects of decision strategy and number of openings on employment selection decisions. Organ Behav Hum Decis Proc. 1990;45:276–84. Observes that decision strategy affected the number of candidates accepted, acceptance threshold, and decision time.

Joac SG, Gentry JW. Risk perception in a simulated industrial purchasing task. The effects of single versus multi-play decisions. J Behav Decis Making. 1990;3:91–108. Observes differences in the behavior of people making repeated and unique decisions.

KAMEDA T, Davis JH. The function of the reference point in individual and group risk decision making. Organ Behav Hum Decis Proc. 1990;46:55-76. Discusses the robustness of social/normative factors relative to task/individual factors.

KAMOURI AL, Balzer WK. The effects of performance sampling methods on frequency estimation, probability estimation, and evaluation of performance information. Organ Behav Hum Decis Proc. 1990;45:285–316. Identifies several behaviors that lead subjects to make accurate estimates and evaluations of raters' performance.

KLEINMUNTZ B. Why we still use our heads instead of formulas: toward an integrative approach. Psychol Bull. 1990;107:296–310. Considers why people are resistant to replacing intuition with mathematical formulas.

LOEWENSTEIN G, Mather J. Dynamic processes in risk perception. J Risk Uncertain. 1990;3:155-75. Examines how public concern about different social problems changes over time in response to fluctuations in problem severity.

MACCRIMMON KR. Wehrung DA. Characteristics of risk taking executives. Managé Sci. 1990;36:422–35. Reports that the most successful executives were the biggest risk takers and the most mature executives were the most risk-averse.

MAZURSKY D. Ofir C. "I could never have expected it to happen": the reversal of the hindsight bias. Organ Behav Hum Decis Proc. 1990;46:20–33. Suggests that people respond opposite to the hindsight effect following unexpected and surprising events.

Moon P, Martin A. Better Heuristics for economic search—experimental and simulated evidence. J Behav Decis Making. 1990;3:175–93. Proposes some "expert strategies" for search for the most economic price of a good.

PARKS JM, Conlon EJ. Justification and the processing of information. J Appl Soc Psychol. 1990;20:703–23. Concludes that ambiguity of information about the future plays an important role in escalation and that responsibility and failure of allocation decisions affect future decisions only when the prospective information is ambiguous.

Ritrov I, Gati I, Tversky A. Differential weighting of common and distinctive components. J Exp Psychol [General]. 1990;119:30–41. Investigates possible explanations of the finding that the relative weights of common components in similarity judgments are higher for verbal than for pictorial stimuli. [Comment follows: Keren G. On the intricacies involved in the study of similarity judgments. J Exp Psychol [General]. 1990;119:42–3.]

Rybash JM, Roodin PA. The framing heuristic influences judgments about younger and older adults' decisions to refuse medical treatment. Appl Cog Psychol. 1989;3:171–80. Observes that people preferentially recommended that younger patients opt for high-fisk medical treatment that could add a large number of years to their lives.

SAINFORT FC, Gustafson DH, Bosworth K, Hawkins RP. Decision support systems effectiveness: conceptual framework and empirical evaluation. Organ Behav Hum Decis Proc. 1990;45:232-52. Proposes a conceptual framework for measuring the effectiveness of decision support systems.

SCHWENK CR. Conflict in organizational decision making: an exploratory study of its effects in for-profit and not-for-profit organizations. Manage Sci. 1990;36:436–48. Reports that executives of not-for-profit organizations felt that conflict improved their decisions, while those from for-profit organizations felt it worsened their decisions.

SMEDSLUND J. A critique of Tversky and Kahneman's distinction between fallacy and misunderstanding. Scand J Psychol. 1990;31:110–20. Argues that cognitive errors must be regarded as logical inference from erroneous premises.

SNIEZEK JA, May DR, Sawyer JE. Social uncertainty and interdependence: a study of resource allocation decisions in groups. Organ Behav Hum Decis Proc. 1990;46:155–80. Examines the roles of uncertainty, expectations, and feedback about other group members contributions to the group.

SNIEZEK JA, Paese PW, Switzer FS III. The effect of choosing on confidence in choice. Organ Behav Hum Decis Proc. 1990;46:264–82. Observes that overconfidence is most likely in spontaneous, less contemplated, choices.

SUTTON SR, Eiser JR. The decision to wear a seat belt: the role of cognitive factors, fear and prior behaviour. Psychol Health. 1990;4:111-23. Observes that habit and not information about the expected value of using seat belts had the largest impact on seat belt use.

THOMPSON L. An examination of naive and experienced negotiators. J Pers Soc Psychol. 1990;59:82-90. Suggests that a negotiator's judgment accuracy is a key ingredient for reaching integrative agreements.

J/DM Newsletter

TVERSKY A, Slovic P, Kahneman D. The causes of performance reversal. Am Econ Rev. 1990;80:204-216. Concludes that preference reversals are explained by people weighing payoffs more heavily in pricing than in choice.

VAREY CA, Mellers BA, Birnbaum MH. Judgments of proportions. J Exp Psychol [Human]. 1990;16:613-25. Reports that subjects consistently overestimated small proportions and underestimated large proportions.

Viscusi WK, Evans WN. Utility functions that depend on health

status: estimates and economic implications. Am Econ Rev. 1990;80:353-74. Examines the effect of health state-dependent utility functions on economic problems.

WAGENAAR WA, Hudson PTW, Reason JT. Cognitive failures and accidents. Appl Cog Psychol. 1990;4:273-94. Concludes that preventive action will be more effective at reducing industrial accidents when it is aimed at changes in mangement decisions.

WEBER EU, Bottom WP. An empirical evaluation of the transitivity, monotonicity, accounting, and conjoint axioms for perceived risk. Organ Behav Hum Decis Proc. 1990;45:253–75. Reports that Luce and Weber's conjoint structure assumption may not hold for positive-outcome lotteries.

Recent Developments in Medical Decision Making

June 1992

Compiled by JAY CHRISTENSEN-SZALANSKI, PhD, MPH

ARTICLES

ARONOW DB, PAYNE TH. PINCETL SP. Postdoctoral training in medical informatics: a survey of National Library of Medicine-supported fellows. Med Decis Making. 1991:11:29–32. Reports that the most common areas of research were decision support and knowledge representation.

BERWICK DM. Hospital leaders' opinions of the HCFA mortality data. JAMA. 1990;263:247-9. Reports that most hospitals had negative reactions to the usefulness of HCFA hospital mortality data.

BOYKO EJ. ALDERMAN BW. The use of risk factors in medical diagnosis: opportunities and cautions. J Clin Epidemiol. 1990;43:851–8. Shows that risk factors may have poor sensitivity and specificity; raises questions about the diagnostic usefulness of disease risk factors.

BRUDE RM. A descriptive analysis of National Library of Medicine-funded medical informatics training programs and the career choices of their graduates. Med Decis Making. 1991;11:33–7. Reports baseline characteristics of existing medical informatics training programs.

CENTOR RM. Signal detectability: the use of ROC curves and their analyses. Med Decis Making. 1991;11:102-6. Examines new issues related to the use of ROC curves in medicine.

CILIRD T. Qualitative probability versus quantitative probability in clinical diagnosis: a study using a computer simulation. Med Decis Making. 1991;11:38–41. Concludes that qualitative probability estimates may be suitable for a Bayesian diagnostic system provided the target condition has a relatively high prior probability.

Chit RC, Trappell GR. Costs of insuring preventive care. Inquity, 1990;27:273-80. Estimates that preventive services would cost a self-insured plan \$4.35 to \$6.89 for an employee with family coverage.

DIAMOND GA. Can the discriminant accuracy of a test be determined in the face of selection bias? Med Decis Making. 1991:11:48-56. Examines ways to minimize the effect of selection bias on current measures of diagnostic accuracy.

DIULBEGOVIC B, HOLLENBERG J, WOODCOCK TM, HERZIG R. Comparison of different treatment strategies for diffuse large-cell lymphomas: a decision analysis. Med Decis Making. 1991:11:1–8. Suggests that the most effective therapeutic regimen for diffuse large-cell lymphoma must result in a high remission rate and cause minimal late sequelae.

DOEBBELING BN, WENZEL RP. The direct costs of universal precautions in a teaching hospital. JAMA. 1990;264:2083-7. Estimates that the CDC universal precautions for barrier isolation materials cost at least \$336 million in the United States in fiscal year 1989.

FITTEN LJ. LUSKY R. HAMANN C. Assessing treatment decision-making capacity in elderly nursing home residents. J Am Geriatr Soc. 1990;38:1097–104. Concludes that cognitive screening tests underestimate the prevalence of impaired decision-making capacity in an elderly nursing home population.

FRYBACK DG, THORNBURY JR. The efficacy of diagnostic imaging. Med Decis Making. 1991:11:88–94. Assesses the contribution of diagnostic imaging to the patient management process.

GAVED NM. KERN DE. A formula for estimating pretest probability. J Gen Intern Med. 1990;5:292-7. Presents a favorable evaluation of a formula that permits the estimation of prevalence of a disease in a population without the use of a "gold standard" test.

GERRITY MS, DEVELUS RF, EARP JA. Physicians' reactions to uncertainty in patient care: a new measure and new insights. Med Care. 1990;28:724–36. Presents a questionnaire that measures physicians' intolerance to uncertainty.

GOITEIN M. Waiting patiently. N. Engl J Med. 1990;323:604-8. Proposes a scheduling plan to dramatically reduce patients' waiting while having a minimal effect on physicians' idle time

GREEN J, WINTFELD N, SHARKEY P, PASSMAN LJ. The importance of severity of illness in assessing hospital mortality. JAMA. 1990;263:241–6. Concludes that the HCFA mortality data need to be made much more sensitive to admission severity before they can be used to make valid inferences about the quality or effectiveness of hospital care.

HABBEMA JDF, BOSSUYT PMM, DIPPEL DW, MARSHALL S, HILDEN J. Analyzing clinical decision analyses. Stat Med. 1990;9:1229–42. Reviews methods for assessing clinical decision analysis.

HEDGES JR, SINGAL BM, ESTEP JL. The impact of a rapid screen for streptococcal pharyngitis on clinical decision making in the emergency department. Med Decis Making. 1991;11:119–24. Reports that the rapid strep screen did have an influence on physician decision making; it did not decrease the use of antibiotics.

HILDEN J. The area under the ROC curve and its competitors. Med Decis Making. 1991;11:95–101. Proposes several alternatives to the ROC curve as a measure of the diagnostic power of a test.

HILDEN J, HABBEMA JDF. The marriage of clinical trials and clinical decision science. Stat Med. 1990;9:1243-57. Identifies aspects of clinical trials that need to be addressed to improve the decision-analytic usefulness of the resulting data.

HOLIGRAVE DR, LAWLER F, SPANN SJ. Physicians' risk attitudes, laboratory usage, and referral decisions: the case of an academic family practice center. Med Decis Making. 1991;11:125–30. Observes that physicians' attitudes toward risk are related to physicians' use of certain laboratory procedures, but unrelated to their referral rates.

HORWITZ RI, VISCOLI CM, CLEMENS JD, SADOCK RT. Developing improved observational methods for evaluating therapeutic effectiveness. Am J Med. 1990;89:630–8. Develops improved observational study designs using design principles of the randomized clinical trial.

KAPLAN CB, CENTOR RM. The use of nurses to evaluate house officers' humanistic behavior. J Gen Intern Med. 1990;5:410-4. Concludes that nurses' evaluations of physicians' humanistic behavior can be useful for program evaluators but were also affected by gender and type of unit from which obtained.

KOVAC SR, CHRISTIE SJ, BINDBEUTEL GA. Abdominal versus vaginal hysterectomy: a statistical model for determining physician decision making and patient outcome. Med Decis Making. 1991;11:19–28. Concludes that a vaginal procedure would result in cost reductions and shorter hospital stays without decreasing quality of care.

LOFGREN RP, GOTTLIEB D, WILLIAMS RA, RICH EC. Post-call transfer of resident responsibility: its effect on patient care. J Gen Intern Med. 1990;5:501-5. Shows that patients transferred to a different resident the day after admission had more laboratory tests performed and longer inpatient stays.

MARSHALL PA, O'KEEFE JP, FISHER SG, VARUSO AJ, SURDUKOWSKI J. Patients' fear of contracting the acquired immunodefi-

ciency syndrome from physicians. Arch Intern Med. 1990;150:1501-6. Reports that patients are becoming more uncomfortable with procedures conducted by a physician suspected of having AIDS.

MEHREZ A, GAFNI A. The healthy-years equivalents: how to measure them using the standard gamble approach. Med Decis Making. 1991;11:140–6. Presents an algorithm to measure the healthy-years equivalent of any given lifetime health profile.

MULROW CD, AGUILAR C, ENDICOTT JE, et al. Quality-of-life changes and hearing impairment: a randomized trial. Ann Intern Med. 1990; 113:188–94. Concludes that hearing loss is associated with important adverse effects on the quality of life of elderly persons, effects which can be reversed with hearing aids.

MUNRO AJ, WARDE PR. The use of a Markov process to simulate and assess follow-up policies for patients with malignant disease: surveillance for stage I nonseminomatous tumors of the testis. Med Decis Making. 1991;11:131–9. Finds no difference in effectiveness and a significant difference in costs for different surveillance policies for stage 1 nonseminomatous tumors of the testis.

Perkins HS, Bauer RL, Hazuda HP, Schoolfield JD. Impact of legal liability, family wishes, and other "external factors" on physicians' life-support decisions. Am J Med. 1990;89:185–94. Suggests that physicians' legal liability may have an especially great impact on physicians' decisions when patients' preferences are not known.

SISK JE, DOUGHERTY DM, RUBY G, MITCHNER BA. Assessing information for consumers on the quality of medical care. Inquiry. 1990;27:263-72. Reports that several measures of hospital and physician quality can provide useful, though not definitive, information on quality.

Swers JA. Gerty DJ. Pickett RM. et al. Enhancing and evaluating diagnostic accuracy. Med Decis Making. 1991;11:9–18. Presents techniques that may enhance diagnostic accuracy.

WACHTEL TJ, O'SPLLIVAN P. Practice guidelines to reduce testing in the hospital. J Gen Intern Med. 1990:5:335-41. Proposes guidelines that have been shown to achieve substantial reductions in testing without any demonstrable adverse effect on quality of care.

Weir SS, Curtis P, McNurr RA. Expert testimony based on decision analysis: a malpractice case report. J Gen Intern Med. 1990:5:406-9. Proposes that decision analysis may help minimize current problems with export testimony.

Essays

BANTA HD, THACKER SB. The case for reassessment of health care technology: once is not enough. JAMA. 1990;264:235–40. Argues that existing technology needs to be continuously reassessed.

BECK JR. Decision-making studies in patient management: twenty years later. Med Decis Making. 1991;11:112-5. Surveys the contribution of decision analysis to diagnosis and treatment in medicine.

BECKER ER, DUNN D, BRAUN P, HSIAO WC. Refinement and expansion of the Harvard resource-based relative value scale: the second phase. Am J Public Health. 1990;80:799-803. Describes the procedures being used to expand and validate the Harvard RBRVS.

J/DM Newsletter

DETSKY AS, NAGLIE IG. A clinician's guide to cost – effectiveness analysis. Ann Intern Med. 1990;113:147–54. Examines the fundamental notions surrounding efficiency analysis in health care.

EDDY DM. The challenge. JAMA. 1990;263:287–90. Identifies problems with unaided clinical decision making. (Editorial follows: Flanagin A, Lundberg GD. Clinical decision making: promoting the jump from theory to practice. JAMA. 1990;263–279–80.)

EDDY DM. Anatomy of a decision. JAMA. 1990;263:441-3. Discusses the basic components of clinical decision making.

EPSTEIN AM. The outcomes movement—will it get us where we want to go? N Engl J Med. 1990;323:266-70. Identifies likely impediments to achieving the goals of the outcome movement.

FUCHS VR, GARBER AM. The new technology assessment. N Engl J Med. 1990;323:673-7. Discusses benefits of the current approach of technology assessment.

GLASER WA. Designing fee schedules by formulae, politics, and negotiations. Am J Public Health. 1990:80:804-9. Argues that the use of the Harvard RBRVS is technologically and politically flawed.

LUSTED LB. The clearing "haze": a view from my window. Med Decis Making. 1991;11:76-87. Comments on the history and growth of the field of medical decision making.

McMailon LF Jr. A critique of the Harvard resource-based relative value scale. Am J Public Health. 1990;80:793-8. Raises questions about the validity of the Harvard RBRVS.

O'CONNOR GT, Sox HC, JR. Bayesian reasoning in medicine: the contributions of Lee B. Lusted, MD. Med Decis Making. 1991;11:107–11. Describes Bayesian reasoning in clinical medicine from the perspective of the writings of Lee B. Lusted, MD.

Weinstein MC. The costs of prevention. J Gen Intern Med. 1990:5(suppl):589-S92. Examines the economics of prevention; argues that prevention programs are inappropriately subjected to a higher standard than other health programs.

WEIR RF, GOSTIN L. Decisions to abate life-sustaining treatment for nonautonomous patients. JAMA. 1990;264:1846-9. Examines the ethical standards and legal liability for physicians after the Cruzan case.

ACKNOWLEDGEMENT

Recent Developments in the Psychology of Judgment and Decision Making and Recent Developments in Medical Decision Making are prepared by Jay J. J. Christensen-Szalanski and are reprinted from Medical Decision Making with the permission of Hanley & Belfus, Inc.

Medical Decision Making is an international journal of the Society for Medical Decision Making (SMDM) published quarterly by Hanley & Belfus, Inc., 210 South 13th Street,

The journal is devoted to the analysis of decision making as it applies to clinical practice, to the establishment of health care policies, and to the administration of health care programs. SMDM trainee. For libraries, the annual subscription rate is \$92.00 (U.S.) regular; \$75.00 the annual subscription rate is \$92.00 (U.S.). For non-SMDM individuals,

For information concerning SMDM membership or journal subscription, contact J. Robert Beck, Editor-in-Chief, Medical Decision Making, BICC-OHSU, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201-3098, (503) 494-4502.

Recent Developments in the Psychology of Judgment and Decision Making

Compiled by JAY CHRISTENSEN-SZALANSKI, PhD, MPH

ARTICLES

BERGADAA MM. The role of time in the action of the consumer. J Consumer Res. 1990;17:289–302. Uses a phenomenological approach to study consumers' perceptions of time.

BIERNAT M, MANIS M, NELSON TE. Stereotypes and standards of judgment. J Pers Soc Psychol. 1991;60:485-99. Observes that sex stereotypes influence objective responses but not subjective responses.

BLATTBERG RC, HOCH SJ. Database models and managerial intuition: 50% model + 50% manager. Manage Sci. 1990;36:887-99. Shows that a combination of model and managerial intuition outperformed the separate use of the model or unaided intuition.

BODENHAUSEN GV. Second-guessing the jury: stereotypic and hindsight biases in perceptions of court cases. J Appl Soc Psychol. 1990;20:1112–21. Obtained inconsistent evidence for the presence of the hindsight bias.

Brown CE, Solomon I. Auditor configural information processing in control risk assessment. Audit. 1990;9:17–38. Suggests that auditors frequently process information configurally.

CHRISTENSEN-SZALANSKI JJJ, WILLHAM CF. The hindsight bias: a meta-analysis. Organ Behav Hum Decis Proc. 1991;48:157–68. Concludes that the effect of the hindsight bias is small; describes variables that can moderate the impact of the hindsight bias.

CONNOLLY T, JESSUP LM, VALACICH JS. Effect of anonymity and evaluative tone on idea generation in computer-mediated groups. Manage Sci. 1990;36:689–703. Reports that groups working anonymously generated the most original ideas.

CROPPER ML, PORTNEY PR. Discounting and the evaluation of lifesaving programs. J Risk Uncer. 1990:3:369-79. Discusses the problems associated with the intergenerational discounting of values.

FISCHIOFF B. Understanding long-term environmental risks. J Risk Uncer. 1990;3:315–30. Reviews the behavioral principles that govern how people assess risk.

GARLAND H. NEWPORT S. Effects of absolute and relative sunk costs on the decision to persist with a course of action. Organ Behav Hum Decis Proc. 1991;48:55–69. Suggests that a topical organization of mental accounts underlies the sunk cost offert

GIBBON FX. McGOVERN PG, LANDO HA. Relapse and risk perception among members of a smoking cessation clinic. Health Psychol. 1991;10:42–5. Reports that those who were abstinent lowered their perceptions of the likelihood of contracting smoking-relating illnesses.

GOLDSTEIN WH. Judgments of relative importance in decision making: global vs local interpretations of subjective weight. Organ Behav Hum Decis Proc. 1990;47:313–36. Suggests that interpretations of relative importance depend upon the characteristics of the decision maker and the stimuli.

HARRIS RJ, JASPER JD, LEE BC, MILLER KE. Consenting to donate organs: whose wishes carry the most weight? J Appl Soc Psychol. 1991;21:3–14. Observes that people considered the next-of-kin's attitudes when the deceased did not specifically indicate any opinion.

HAWKINS SA, HASTIE R. HINDSIGHT: biased judgments of past events after the outcomes are known. Psychol. Bull. 1990;107:311–27. Accounts for the hindsight bias in terms of inferences made to re-evaluate case-specific information.

HEATH C, TVERSKY A. Preference and belief: ambiguity and competence in choice under uncertainty. J Risk Uncer. 1991;4:5-28. Questions the inferring of beliefs from preferences.

HOCH SJ, LOEWENSTEIN GF. Time-inconsistent preferences and consumer self-control. J Consumer Res. 1991;17:492–507. Accounts for effects of time using a decision-theoretic model based on reference points.

HOROWITZ JK. CARSON RT. Discounting statistical lives. J. Risk Uncer. 1990;3:403-13. Provides evidence that discount rates may differ for different risks.

Kelsey D. Schepanski A. Regret and disappointment in taxpayer reporting decisions: an experimental study. J Behav Decis Making. 1991:4:33-53. Concludes that taxpayer reporting decisions cannot be explained by regret theory.

KEENEY RL, VON WINTERFELDT D. EPPEL T. Eliciting public values for complex policy decisions. Manage Sci. 1990:36:1011–30. Describes the combined use of public value forums and MAU techniques to assess complex policy decisions.

LINVILLE PW. FISCHER GW. Preferences for separating or combining events. J Pers Soc Psychol. 1991:60:5–23. Proposes a model that combines elements of prospect theory with the notion that people possess limited but renewable resources for dealing with emotional events.

LUSK CM, HAMMOND KR. Judgment in a dynamic task: microburst forecasting. J Behav Decis Making. 1991;4:55-73. Uses a lens model to examine expert decision making in a dynamic task.

MITCHELL TR. BEACH LR. "... Do I love thee? Let me count ..." Toward an understanding of intuitive and automatic decision making. Organ Behav Hum Decis Proc. 1990;47:1–20. Compares image theory and analytic decision theory as models to explain intuitive decision making.

MOORE MJ, VISCUSI WK. Models for estimating discount rates for long-term health risks using labor market data. J Risk

Uncer. 1990;3:381-401. Uses evidence from job choices to estimate individual discount rates for adverse health outcomes.

Navon D. How critical is the accuracy of an eyewitness's memory? Another look at the issue of lineup diagnosticity. J Appl Psychol. 1990;75:506–10. Argues that the effect of reliability of lineup identification may be of limited value. [Comments follow: Wells GL, Luus CAE. The diagnosticity of a lineup should not be confused with the diagnostic value of nonlineup evidence. J Appl Psychol. 1990;75:511–6. Navon D. Ecological parameters ≠ nonlineup evidence: a reply to Wells and Luus. J Appl Psychol. 1990;75:517–20.]

NORTHCRAFT GB, ASHFORD SJ. The preservation of self in every-day life: the effects of performance expectations and feedback context on feedback inquiry. Organ Behav Hum Decis Proc. 1990;47:42–64. Reports that performance expectations influenced the frequency of feedback inquiry.

PAESE PW. SNIEZEK JA. Influences on the appropriateness of confidence in judgment: practice, effort, information, and decision making. Organ Behav Hum Decis Proc. 1991;48:100—30. Observes that confidence in judgment increased with practice and effort.

PINCUS KV: Audit judgment consensus: a model for dichotomous decisions. Audit. 1990;9:1–20. Explores the conditions under which consensus implies accuracy for individual audit decisions.

RITOV I, BARON J. Reluctance to vaccinate: omission bias and ambiguity. J Behav Decis Making. 1990;3:263-77. Suggests that people prefer omission errors to equivalent commission errors.

SCHOEMAKER PJH. Are risk-attitudes related across domains and response modes? Manage Sci. 1990;36:1451-63. Examines risk-attitudes across different payoff domains and response modes.

SIMMONS CJ, LYNCH JG Jr. Inference effects without inference making? Effects of missing information on discounting and use of presented information. J Consumer Res. 1991;17:477–91. Suggests that neither discounting nor slope effects are mediated by inferences.

Spranca M. Minsk E. Baron J. Omission and commission in judgment and choice. J Exp. Soc Psychol. 1991;27:76-105.

Reports that subjects rated harmful omissions as less bad than harmful commissions.

STRUBE MJ, Smith JA. Rothbaum R, Sotelo A. Measurement of health care attitudes in cystic fibrosis patients and their parents. J Appl Soc. Psychol. 1991;21:397–408. Reports that parents' attitudes were unrelated to patients' attitudes.

THALER RH, JOHNSON EJ. Gambling with the house money and trying to break even: the effects of prior outcomes on risky choice. Manage Sci. 1990;36:643-60. Proposes an editing rule to account for people's showing an increase in risk seeking following a gain.

THOMPSON L. Negotiation behavior and outcomes: empirical evidence and theoretical issues. Psychol Bull. 1990;108:515–32. Examines the social-psychological influences on dyadic negotiations.

THOMPSON L. Information exchange in negotiation. J Exp Soc Psychol. 1991;27:161-79. Suggests that judgment accuracy is a key ingredient for reaching integrative negotiation agreements.

THOMPSON L. HASTIE R. Social perception in negotiation. Organ Behav Hum Decis Proc. 1990;47:98–123. Examines the effect of misperceptions of the other party's interests on the outcomes of negotiations.

Weber CL, Rynes SL. Effects of compensation strategy on job pay decisions. Acad Manage J. 1991;34:86–109. Reports that pay strategies affect assigned pay levels and the relative weights attached to market survey information.

Weinstein ND, Sandman PM, Roberts, NE. Perceived susceptibility and self-protective behavior: a field experiment to encourage home radon testing. Health Psychol. 1991;10:25–33. Observes that perceptions of susceptibility and illness severity were correlated with orders of radon test kits.

WILSON TD, SCHOOLER JW. Thinking too much. Introspection can reduce the quality of preferences and decisions. J Pers Soc Psychol. 1991;60:181–92. Suggests that evaluating multiple attributes can cause people to discriminate less between different alternatives.

ZMAC EJ, BAZERMAN MH. Blind spots in industry and competitor analysis: implications of interfirm (mis)perceptions for strategic decisions. Acad Manage Rev. 1991;16:37–56. Reports that decision makers have specific "blind spots" when they consider contingent decisions of competitors.

O

10

Risk-Taking Behavior

Edited by J. FRANK YATES, The University of Michigan, USA

Risk is pervasive and seemingly inescapable in contemporary life. Moreover, the positive and negative consequences of people's actions in the presence of risk are often dramatic. That is why risk taking has been studied by so many different scholars within so many different fields, from business and engineering to health care and developmental education.

Risk-Taking Behavior is an examination of the psychological foundations and ramifications of this activity. A major feature of the book is its comprehensive coverage of ideas from multiple perspectives - within psychology itself as well as in areas like economics, medicine, and decision analysis - and its integration of them. The book offers detailed insights into fundamental risk concepts; discoveries about risk-taking in group settings; models and evidence about practices that affect individuals' susceptibility to health threats; recommendations on how personnel training as well as product, architectural, and organizational design can encourage appropriate risk taking; and future research on this most compelling topic.

This well referenced book should prove a valuable resource for a broad audience of readers, such as research psychologists, decision scientists, risk managers, health professionals, staff supervisors, and policy makers. They will find that it is rigorous, yet does not require extensive prior technical knowledge. They will especially appreciate its explicit treatment of practical implications.

(Contents Overleaf)

Wiley Series in Human Performance and Cognition Series Editor: Dennis H. Holding

0471 92250 1

370pp

December 1991

\$64.95

ORDER FORM

YES! Please send me a copy of:	[] Bill me [] Bill my firm Purchase Order \$
YATES/RISK	[] Please charge my:
0471 92250 1 \$64.95	[] Visa [] Mastercard [] American Express
to examine and use FREE for 15 days. At the end of the	Card No
trial period, I will either keep the book and honor your invoice for the cost of the book plus sales tax, postage and handling or return the book and owe nothing.	Expiry Date
Name	[] Save! I am enclosing my cheque for the purchase price above plus my state sales tax. WILEY PAYS POSTAGE
Organization	AND HANDLING CHARGES. Same full return privileges.
Address	Signature
	Order invalid unless signed. Offer expires
Zip Code	Please return to: Stacey Prassas, John Wiley & Sons Inc., 605 Third Avenue, New York, NY 10158, USA

WILEY Publishers Since 1807

CONTENTS

Chapter 1. THE RISK CONSTRUCT

- J. Frank Yates and Eric R. Stone:

The Role of the Risk Construct; The Elements of Risk; Losses; Significance; Uncertainty; Overall Risk

Chapter 2. RISK AND OPTIMALITY

- Peter J. Neumann and Peter E. Politser:

Introduction; Limitations of Human Decision Making; The Expected Utility Theory and Rational Decision Making; The Limitations of Expected Utility Theory; Alternative Models of Decision Making; Future Directions; Conclusions

June 1992

Chapter 3. RISK APPRAISAL

- J. Frank Yates and Eric R. Stone:

Loss Potential; Loss Identity; Loss Likelihood; Loss Significance; Overall Risk;

Chapter 4. INDIVIDUAL DIFFERENCES IN RISK TAKING

- Philip Bromiley and Shawn P. Curley:

Approaches to Studying Risk Taking; Personality Characteristic or Situation? Risk as Physical Sensation; Risk in Games and Lotteries; Risk in Everyday Life Experiences; Risk in Business and Finance; Cross-Situational Studies; Discussion

Chapter 5. RISK TAKING: A DEVELOPMENTAL PROSPECTIVE - Baruch Fischhoff:

A Decision-Making Perspective; A Developmental Perspective; Conclusion

Chapter 6. GROUP RISK TAKING: SELECTED TOPICS

- James H. Davis, Tatsuya Kameda, and Mark F. Stasson:

Introduction; Risky Decisions and Ad Hoc Groups; Mere Aggregation of Individual Preferences and Choices, and the Engineering of Group Decisions; Long-Term Groups

Chapter 7. STRESS, AFFECT, AND RISK TAKING

- Leon Mann:

Introduction; The Effect of Psychological Stress on Decision Making; Affect and Risk Taking

Chapter 8. RISK TAKING AND HEALTH

- Nancy Adler, Susan M. Kegeles, and Janice L. Genevro:

Introduction; Models of Health Behaviors; Examples of Health Problems; Conclusion

Chapter 9. RISK TAKING AND ACCIDENT CAUSATION

-Willem A. Wagenaar:

Introduction; Conscious Decisions vs Action Schemata; Warnings on Dangerous Products; Accident Histories; Conclusion

Chapter 10. RISK TAKING, DESIGN, AND TRAINING

- Gordon F. Pitz:

Introduction; Understanding Behavior in the Face of Risk; Managing Risk; Decisions About Risk; Beyond Formal Analysis

EPILOGUE:

Deliberative vs Nondeliberative Risk Taking; Choosing Risks vs Handling Risks; Origins of Risk Taking Variability; Generalizability of Risk Taking Research; Recommendations for Risk Taking; Theory Development

NEW FROM KLUWER ACADEMIC PUBLISHERS....

RISK, INFORMATION AND INSURANCE Essays in the Memory of Karl H. Borch

edited by Henri Louberge, University of Geneva

ISBN 0-7923-9041-5 288 pp.

Risk. Information and Insurance brings together 12 essays on one of the most stimulating and productive research fields in modern economics: the effects of uncertainty on economic life. The focus is more specifically on the positive and normative issues raised by the financial transfers of risks among market participants. Optimal risk-sharing, incomplete information and regulation of insurance markets are recurrent themes throughout the book.

These essays reflect the state of the art and the current orientations in fundamental research. They also provide new perspectives for strategic decision-making in insurance companies and for regulation of risk-transfer mechanisms. The volume will serve as a key reference for policy-makers and insurance executives, as well as for students and researchers in economics and finance.

All the authors, who are respected specialists in the field, wrote the essays in the memory of the late Karl H. Borch, the founding father of modern insurance economics. The book was sponsored by the International Association for the Study of Insurance Economics, known as the "Geneva Association."

Contributors: R. Arnott, E. Briys, R.L. Carter, P. Datta, S. Diacon, G. Dionne, N. Doherty, J.H. Dreze, Y. Eden, L. Ecckhoudt, R. Eisen, D. Farny, O. Giarini, Y. Kahane, W. Karten, J. Lemaire, H. Louberge, J.F. Outreville, J.E. Stiglitz, L. van den Berghe.

Abbreviated Contents: Part I: Economics of Uncertainty. Part II: Economics of Information. Part III: Economics

ACTING UNDER UNCERTAINTY: MULTIDISCIPLINARY CONCEPTIONS

edited by George M. von Furstenberg, Indiana University

THEORY AND DECISION LIBRARY, SERIES A

ISBN 0-7923-9063-6

512 pp.

This book presents a multidisciplinary approach to solving problems of uncertainty and highlights the representation of uncertainty as the major challenge of the cognitive and decision sciences today. The contents include models, algorithms, and applications to problems of uncertainty in a number of areas, including economics, environmental sciences, and

\$79.95

The volume is designed to help understand the methods adopted for dealing with uncertainty across the humanities and sciences. Based in economic theory of risk and uncertainty, it provides the reader with an awareness of the risks and choices and of the "framing" used in the selection of problem specifications and resolutions techniques.

Contributors: W.A. Brock., J.B. Bullard., H.N. Castaneda, N. J. Castellan, Jr, D. Dubois, H.E. Kyburg, Jr., L.L. Lopes, A.G. Molland, D. F. Parkhurst, T.M. Porter, H. Prade, M. L. Puri, S. Rayner, H.L. Resnikoff, T.A. Sawyer, G. Shafer, G. W. Suter II, E. D. Sylla, G.M. von Furstenberg, T. S. Wallsten, G.M.R. Winkler.

Abbreviated Contents: Part I: The Evolution of Scientific Conceptions of Uncertainty and their Social Underpinnings. Part II: Risk Analysis and Social Responsibility. Part III: Learning and Acting under Uncertainty. Part IV: Coping with Extreme Forms of Uncertainty.

INTEGRATING INSURANCE AND RISK MANAGEMENT FOR HAZARDOUS WASTES

edited by Howard C. Kunreuther and M. V. Rajeev Gowda, The Wharton School, University of Pennsylvania

June 1992

ISBN 0-7923-9009-1

382 pp.

This volume develops the elements needed for an integrated waste management program. The long-run strategic concerns of production, transport and storage of hazardous waste must balance the benefits and costs to society and to the affected interested parties. The book develops the following objectives:

- 1. To understand the opportunities and limitations of risk assessment of environmental effects from disposal facilities to be cleaned up and hazardous waste facilities now in operation;
- 2. To understand the insurance issues related to coverage for those involved in the clean-up of waste facilities and the operation of hazardous waste storage and treatment facilities;
- 3. To develop risk management and risk communication strategies related to insurance, compensation and regulation for dealing with hazardous waste storage and disposal problems;
- 4. To develop legislative recommendations with respect to an integrated waste management strategy that recognizes the role of risk assessment and risk management as part of the policy process.

Contributors: K. Abraham, F. Allen, J. Amore, E. Anderson, P. Arbesman, N. Ashford, M. Baram, B. Berliner, L. Cheek III, P.C. Chrostowski, J. Clough, D. Connolly, N. Doherty, R. Fortuna, L. Fuller, O. Giarini, M.V. R. Gowda, F. H. Habicht II, L. Johnson, M. Katzman, P. Kleindorfer, H. Kunreuther, J. Morrison, S. Novick, R. Patrick, P. Portney, I. Rosenthal, J. Schramm, P. Schroeder, J. Seif, P. Slovic, C. Smith, J. Spuehler, T. Voltaggio, J. L. Vreeland, M. Williams,

Abbreviated Contents: Part I: Cleaning Up Existing Waste Sites. Part II: Managing Existing Waste Sites, Part III: The Small Group Discussions. Part IV: Towards an Integrated Waste Management Strategy.

Order Form--Fill in and Mail Today!

*Free shipping and handling on all prepaid orders *MA residents please add 5% sales tax

riease sena me:	Louberge/15BN 0-7923-9041-5	\$55.00	
	von Furstenberg/ISBN 0-7923-9063-6	\$79.95	
	Kunreuther/ISBN 0-7923-9009-1	\$48.95	
Payment:			
_Enclosed is my check/money order in the	amount of \$		
	oice (book will be shipped upon receipt of paymen	1)	
Charge my:AMEXVISA	MC		
Card #	Ex	p. Date	
Signature	Daytime Ph	ione	
Ship to:	·		
Name			
Address			
City	State	Zip	
prices subject to change without notice		•	

mail this form to: KLUWER ACADEMIC PUBLISHERS P.O. Box 358, Accord Station Hingham, MA 02018-0358

or call: (617) 871-6600 to order by phone using a credit card

300215

NEW BOOKS FROM KLUWER ACADEMIC PUBLISHERS

P.O. Box 358, Accord Station Hingham, MA 02018-0358 (617) 871-6600 to order by phone using a credit card

Michon, John A., & Akytirek, Aladin (Eds.). (1992). Soar: A cognitive architecture in perspective (A tribute to John Newell). ISBN 0-7923-1660-6. Volume 10 in the Studies in Cognitive Systems series.

The book represents a European perspective on Soar with the exception of the special contribution from Allen Newell arguing for Unified Theories of Cognition. The various papers derive from the work of the Soar Research Group that has been active at the University of Groningen, The Netherlands, since 1987. The work reported here has been inspired in particular by two topics that precipitated the group's interest in Soar in the first place--road user behavior and the temporal organization of behavior, more specifically planning. At the same time, the various contributions go well beyond the simple use of Soar as a convenient medium for modeling human cognitive activity. In every paper one or more fundamental issues are raised that touch upon the very nature and consistency of Soar as an intelligent architecture. As a result the reader will learn about the operator implementation problem, chunking, multitasking, the need to constrain the depth of the goal stack, and induction, etc. Soar is still at a relatively early stage of development. It does, nevertheless, constitute an important breakthrough in the area of computer architectures for general intelligence.

Tassey, Gregory. (1992). Technology infrastructure and competitive position. ISBN 0-7923-9232-9.

Global interest in technology-based growth politics is growing as technology becomes an increasingly important factor in economic competitiveness. In spite of increased efforts in many nations to develop more effective industry strategies, most of these endeavors have been ad hoc exercises rather than derived from a consistent framework. This book provides that missing framework. It begins with an overview of technology-based competition and the relevant issues. A conceptual model is developed that emphasizes the roles and impacts of the supporting infrastructure. Finally, the book addresses the interaction of corporate and governmental roles for providing technology infrastructure, some funding issues and mechanisms for cooperative planning and implementation.

NEW BOOKS FROM BLACKWELL PUBLISHERS

64 Depot Road Colchester, VT 05446 (800) 445-6638 (802) 878-0351 from Vermont & Canada

Pudney, Stephen. Modeling individual choice: The econometrics of corners, kinks and holes. ISBN 0-631-14589-3 (cloth); 1-55786-297-4 (paper).

Most microeconomic texts stress the neo-classical model of smooth optimizing behavior in an environment of constant prices. Most econometric texts stress regression, based on methods implying continuous variation in economic quantities. If one attempts to estimate a model of rational behavior from data on individuals, it is soon apparent that neither of these views is generally tenable. This book discusses the econometric methodology appropriate to the modeling of individual choices (concentrating particularly on demand and labor supply), using survey data. it is especially concerned with problems of econometric specification raised by discreteness in the variable to be modeled.

Hirshleifer, Jack. Time, uncertainty and information. ISBN 0-631-16236-4

The author has made many fundamental contributions to microeconomic analysis, and has been particularly innovative in the burgeoning fields of the economics of time, uncertainty and information. This new volume collects his most important work, both theoretical and applied, in these areas, and demonstrates clearly that there can be a single integrated approach valid for all three topics. The theory is applied, at times controversially, to important policy-relevant topics, including how business and government decision-makers should analyze investment projects, the nature and significance of liquidity, and the social function of speculation.

Heap, Shaun Hargreaves, Hollis, Martin, Lyons, Bruce, Sugden Robert, & Weale, Albert (Eds.). The theory of choice: A critical guide. ISBN 0-631-18322-1 (paper); 0-631-17174-6 (cloth).

What makes a choice rational? A common answer is that a rational agent calculates the probable net benefits of each possible course of action and chooses the one that best satisfies his or her given preferences. Rational choice is thus about means, not ends, a view which has been deeply analyzed in economics, and that is now becoming crucial throughout the social sciences. This book provides an authoritative and comprehensive introduction to the fundamental principles of rational choice theory and game theory and their implications and limitations. The book is in three parts with a section of keywords. Part I covers individual choice, analyzing the theory of decision making by an individual who need not consider the effect on other people's decisions. Part II examines interactive choice in which the actions taken by one person depend on, and influence, those taken by others. The final part covers collective choice where individuals group together to agree upon a common strategy or policy, which is then implemented. This section includes surveys on social choice, democracy, power and social justice.

-Broome, John. Weighing goods. ISBN 0-631-17199-1

The book uses techniques from economics to illuminate fundamental questions in ethics, particularly in the foundations of utilitarianism. Topics considered include the nature of teleological ethics, the foundations of decision theory, the value of equality and the moral significance of a person's continuing identity through time. The argument is unified around three theorems that connect the way goods are distributed in three "dimensions:" between people, across time within the life of a person and across the states of nature under uncertainty. In each dimension analogous questions arise about the distribution of goods. Between people, what is the value of equality? Across time, can goods received at one time in a life fully compensate for deprivation at other times? Across states of nature, should we accept the independence axiom of expected utility theory? This book treats all three questions as aspects of the general problem of weighing goods. It shows that, not only are the three dimensions analogous, but there are strict logical connections between ethical judgments about the distribution of goods in all three. It connects judgments about equality, risk and prudence. The theorems come from economics (although the book contains no mathematics beyond elementary algebra), but they are set in a philosophical context and the conclusions are in ethics. In turn, the conclusions have important applications in economics.

Varoufakis, Yanis. Rational conflict. ISBN 0-631-16606-8.

The study of economic rationality is attracting increasing attention from other disciplines as well as continuing to be the subject of debate within economics. At its heart is the notion that, in a situation of choice or confrontation, knowledge of an individual's desires and beliefs will allow his or her actions to be predicted. The author argues that this is an ideal abstraction which is both inapplicable and ineffective. Using examples from industrial relations, diplomacy, hostage crises, and the law, he shows that it is impossible to quantify the aspirations of individuals in these conflicts, and that traditional theory ignores both the wider conflict and the history of similar cases.

Bacharach, Michael, & Hurley, Susan (Eds.). Foundations of decision theory: Issues and advances. ISBN 0-631-17236-X.

The study of formal models of rational decision making, born in the seventeenth century as a new science of gambling, has reached maturity in our own century. Its paradigms, Expected Utility Theory and the Theory of Games, have profound influence on the development of theoretical disciplines, particularly in the social sciences. While the problems it confronts have attracted brilliant work from diverse areas, the central question it addresses--namely, "what am I to do?"--has found no agreed answer in a number of basic cases: the problems of coordination and addiction, problems which Newcomb, Allais, and Ellsberg, among others, attempted to tackle. The progress of decision theory depends upon a detailed evaluation of its fundamental assumptions, and effective and thorough communication between its contributing disciplines. This volume assembles ten commissioned studies by economists and philosophers currently active in decision theory. The editors' introduction combines a review of the major theoretical issues raised in the contributions with expositions of recent major developments in game theory and individual decision theory to make these developments accessible to non-specialists. This important book will serve as a guide to the state of the art in decision theory as it becomes increasingly crucial to a wide range of disciplines.

Contributors: Mark J. Machina, Isaac Levi, John Broome, Philip Pettit, John E. Roemer, Holly Smith, Brian Skyrms, Hyun Song Shin, William Harper, and Robert Sugden.

Page 22 June 1992 J/DM Newsletter

٠ (١

NEW BOOK

Decision Analysis for Management Judgment

Paul Goodwin Bristol Business School, UK George Wright
Strathclyde Business School, UK

Contents:

- Decisions involving multiple objectives
- Introduction to probability
- Decision making under uncertainty
- Applying simulation to decision problems
- Appendix: The standard deviation
- Revising judgements in the light of new information
- The quality of human judgement: Laboratory studies
- The quality of human judgement: Real world studies
- · Probability assessment
- Decisions involving groups of individuals
- Resource allocation and negotiation problems
- Alternative decision-support systems

Published by John Wiley, 1991, 328 pages, \$37.25 or £17.50.

NEW SOFTWARE

HIPRE 3 + Decision Support Software

HIPRE 3+ is a new upgrade of the HIPRE 3.0 fully graphical window-based decision analysis software running both of the widely used methods:

AHP--the Analytical Hierarchy Process

SMART--the Simple MultiAttribute Rating Technique.

The user can now take the best of both and combine the two approaches when necessary. The integration of AHP and MAV techniques in the same software makes HIPRE 3+ ideal for classrooms and real life problem solving. The conversion options guarantee compatible priorities and eliminate rank reversals from the AHP. You can choose the most suitable method for the problem at hand and create high-level documents by fully graphical color or black and white printouts. Features:

- enlarged scrolling space for the value/tree hierarchy
- graphical value function assessment directly or by the bisection method
- prioritizations in pairwise, direct weighting, or value function modes
- conversion options: AHP --> value and value normalization
- new priority plane to show ratings on different attribute dimensions
- · what-if sensitivity analysis for the changes of ratings

HIPRE 3+ runs on IBM compatibles under DOS and requires EGA, VGA, or Hercules graphics. The use of a mouse is optional. The price is still \$295. The demo disk is free.

Distributor: Santa Monica Software Inc., 28818 Selfridge Drive, Malibu, CA 90265, Telephone: (310) 451-2382. Fax: (310) 395-7635. Email: hipre@sms-usa.com

Notes about books and software are from the publishers' promotional materials. Please contact the Newsletter Editor, Shawn Curley (see Page 2 for phones and addresses), if you are interested in reviewing these or other new books and software for the *JIDM Newsletter*.

J/DM- Newsletter June 1992 Page 23

IMPORTANT DUES NOTICE...

Please check your label. The date next to your name is the last year for which the database shows you as having paid dues. This date reflects your dues status as of June, 1992.

If your label shows "1992," you are fully paid. THANK YOU!

If it is "1991" then you owe dues of \$20 for 1992.

If it is "1990" then you owe back dues of \$20 for 1991 and \$20 for 1992 for a total of \$40.

If it is "1989" then you owe back dues of \$40 and current dues of \$20 for a total of \$60. Please act soon, or you will be dropped from the mailing list.

Members residing outside the United States who incur expenses in getting checks written in U.S. funds, have the privilege of paying in advance for multiple years. The label date should indicate if you have done this. Members residing in countries where getting checks written in U.S. funds is impractical or illegal may apply to the Society for a free membership. Such members will find a "*" next to their names on the label.

-- Terry Connolly

			
SOCIETY FOR JU	DOGMENT AND DEC	ISION MAKING	G: DUES FORM/ADDRESS CORRECTIONS
Name	production of the second secon		Phone
Address			EMAIL
			
			
City	State	ZIP	
1992 Dues: Member	\$20.00, Student \$5.00°		
through a US bank. M	yable to the JUDGMENT/I Mail the form and check to Terry Connolly, Secretary/ Management and Policy D Business and Public Admi University of Arizona Tucson, AZ 85721	o: Treasurer epartment nistration	NG SOCIETY. Checks must be in US dollars and payable
*Students must have en	ndorsement of a faculty m	ember:	•
Faculty Signature:		Date:	:
Daine d Manage		*	**

June 1992

SOME UPCOMING MEETINGS

Twelfth International Symposium on Forecasting: ISF-92 will be in Wellington, New Zealand, at the Plaza International Hotel from August 7-10, 1992. To register an interest in attending or to get further mailings, contact ISF-92, P.O. Box 10-277, Wellington, New Zealand. Telephone: +64 (4) 472-5564. Fax: +64 (4) 473-3276 or contact Professor Fraser Jackson, Program Co-Chair by email: jackson@matai.vuw.ac.nz

Society for Mathematical Psychology: Twenty-fifth annual meeting will be at Stanford University, August 21-23, 1992. For more information contact: Dr. Geoffrey Iverson, Department of Cognitive Science, University of California, Irvine, CA 92717. Email: giverson@uci.edu

Society for Medical Decision Making: Fourteenth annual meeting is at the Portland Marriott in Portland, OR, October 17-20, 1992. For more information contact: Society for Medical Decision Making, The George Washington University, Office of CME, 2300 K Street NW, Washington DC 20037. Telephone: (202) 994-8929. Email: smdm-office@camis.stanford.edu

ORSA/TIMS: Joint national meeting will be at the Hilton Hotel, San Francisco, CA, November 1-4, 1992. For more information contact the General Chair of the meeting: Chaiho Kim, The Leavey School of Business, Santa Clara University, Santa Clara, CA 95053. Telephone: (408) 554-6832.

Psychonomic Society: 33rd annual meeting will be at the Adams Mark Hotel, St. Louis, MO, November 13-15, 1992. For more information contact: Cynthia Null, Secretary-Treasurer, P.O. Box 7104, San Jose, CA 95150-7104. Telephone: (415) 604-1260. Email: cnull@eos.arc.nasa.gov

Judgment/Decision Making Society: See Page 1. Further information will be forthcoming.

Į.

J/DM NEWSLETTER

Department of Information & Decision Sciences
Carlson School of Management
University of Minnesota
271 19th Avenue S.
Minneapolis, MN 55455

Nonprofit Org.
U. S. Postage
PAID
Mpls, MN
Permit No. 155

Rob Hamm 1992 Institute of Cognitive Sci Box 345 Boulder CO 80309-0345