

RESEÑA DE LIBRO

Educación y decisión multicriterio: reflexiones y experiencias

E. Martínez & M. Escudey (Editores)
Editorial Universidad de Santiago, 1998. Santiago de Chile
ISBN 956-7069-28x
222 páginas

Se presentan 11 trabajos que tratan sobre la teoría y la práctica de las técnicas multicriteriales en Iberoamérica fundamentalmente. El libro da una medida del trabajo que se realiza actualmente en la aplicación de las técnicas de decisión multicriterio en países de habla hispana.

Algunos trabajos son expositivos de la filosofía y tecnología asociadas a las técnicas multicriterios. Los principios son discutidos y el comportamiento de los más conocidos paquetes informáticos es discutido por especialistas de reconocida trayectoria. La óptica de esos trabajos emana de la experiencia práctica y docente de los autores. La mayoría de los trabajos presentan aplicaciones novedosas de gran interés metodológico las que son discutidas en su génesis y desarrollo exitoso. Entre las áreas donde se efectúan estos estudios aparecen la industria del petróleo, la gestión agraria y del medio ambiente, la determinación de estrategias de calidad y el manejo de dispositivos informáticos. Estas discusiones brindan al lector, sea especialista del tema o no, una panorámica del estado actual y las perspectivas de la Decisión Multicriterial en el área Iberoamericana. Esto abre o descubre puentes de comunicación que permite el intercambio entre la diáspora de los interesados en el Multicriterio en estos países.

Una sucinta caracterización de los autores es brindada.

El prólogo fue redactado por el Prof. Thomas Saaty lo que llama la atención sobre el interés de la conferencia.

Recomiendo esta obra tanto para los especialistas que abordan problemas prácticos de la optimización como para el amplio espectro de los "tomadores de decisión" que tienen una base matemática sólida. Esto hace que los teóricos estén entre el público que verá en ella un punto de referencia muy importante y actualizado. Los académicos verán en él un material muy importante para la discusión en las aulas de la aplicabilidad de las herramientas de la Optimización Multicriterio. En particular, lo considero con muchas posibilidades para obtener material para actividades extraclases.

S. Allende
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RESEÑA BIBLIOGRAFICA

A General Topology Workbook

I. Adamson

(1996)

Este libro está elaborado con la idea de brindar un material de trabajo donde teoremas y ejercicios se mezclen rompiendo los esquemas tradicionales.

El libro consta de dos partes, en la primera de las cuales, se dan enunciados de los ejercicios y teoremas-ejercicios, con algunas sugerencias oportunas, de cómo tratarlos. Como bien expresa el autor, estos ejercicios están dados no atendiendo a su grado de dificultad, sino siguiendo una secuencia de razonamientos y necesidades. En esta parte no aparecen las soluciones de dichos ejercicios invitando al lector a resolverlos por sí mismo.

La segunda parte, contiene las soluciones de los ejercicios y las demostraciones de los teoremas-ejercicios.

El contenido de la primera parte y, por tanto, de la segunda ha sido dividido en siete capítulos. El primero da los resultados relativos a los espacios topológicos, lo que destaca las definiciones básicas y los resultados más importantes. Las funciones entre espacios topológicos y la continuidad de las mismas son tratadas detalladamente en el segundo capítulo, pasando posteriormente a las topologías inducidas en el tercero. El cuarto trata sobre la convergencia, mientras que el quinto es dedicado a los axiomas de separación, los que son estudiados con sumo cuidado. Los espacios topológicos compactos y los conexos son tratados en los capítulos 6 y 7.

Con estos capítulos el autor da una clara visión de la topología general, vista de manera agradable, lo cual lleva al lector a la resolución por él mismo de los ejercicios planteados, sin agobiarlo con notaciones cargadas. Pienso que este libro brinda al lector la oportunidad de adentrarse en el mundo de la topología general y que en un curso básico de esta asignatura puede ser de gran utilidad.

Dra. Mayra Solana
Facultad de Matemática y Computación
Universidad de La Habana

ANNOUNCEMENTS / ANUNCIOS

BS 2000 WORKSHOP ON STOCHASTIC GEOMETRY

Place: University of Athens, Georgia (USA)
Date: May 10-12, 2000
Organizer: C.C. Heyde, Camberra
email: jm@math.auc.dk

SYMPOSIUM ON INFERENCE FOR STOCHASTIC PROCESSES

Place: University of Athens, Georgia (USA)
Date: May 10-12, 2000
Organizers: I.V. Basawa, R.L. Taylor and C.C. Heyde
email: jm@math.auc.dk

WORKSHOP ON HIERARCHICAL MODELING IN ENVIRONMENTAL STATISTICS

The Workshop will feature presentations by international well known experts. Small discussion groups will be organized.

A tutorial on Bayesian Hierarchical Modeling will be given.

It is sponsored by Ohio State University and the Section on Statistics and the Environment of the American Statistical Association.

Place: Ohio State University. Ohio (USA)
Date: May 14-16, 2000
Organizer: Noel Cressie
Department of Statistics
1958 Neil Avenue
404 Cockins Hall
The Ohio State University
Columbus, Oh 43210-1247.
email: ncressie@stat.ohio-state.edu
Web site: www.stat.ohio-state.edu/~ncressie

THIRD SIAM CONFERENCE ON MATHEMATICAL ASPECTS OF MATERIAL SCIENCE

Place: Crown Plaza Hotel
Philadelphia, Pennsylvania. USA.
Date: May 21-24, 2000
Informations at: www.siam.org/meetings.

INTERNATIONAL CONFERENCE ON ESTABLISHMENT SURVEYS [ICES-II]

Place: Buffalo, New York. (USA)
Date: June 17-21, 2000
Organizer: J. Kovar [Chair]
3A Coats Bldg. Statistics Canada.
120 Parkdale Ave.
Ottawa, Canada
email: kovar@statcan.ca

TENTH SIAM CONFERENCE ON DISCRETE MATHEMATICS

Place: Radisson Metrodome Hotel. Minneapolis, MN. USA
Date: June 12-15, 2000
Organizer: SIAM Activity Group on Discrete Mathematics
Informations at: www.siam.org/meetings.

INTERNATIONAL BIOMETRIC CONFERENCE 2000

Place: San Francisco Bay Area, California, USA
Date: July 2-7, 2000
Chair: S. Richardson, France.
email: richardson@vjf.inerm.fr.
Local Arrangements Chais: J. Hilton (USA)
email: joan@biostat.ucsf.edu
Program Committee: C. Berzuini (Italy), E. Carbonell (Spain),
J. Carlin (Australia), B. Engel (The Netherlands),
Ji-Quing Fang (China), S. Huzurbarar (USA),
J. Laeuter (Germany), T. Louis (USA),
S. Mejza (Poland), T. Postelnicu (Rumania),
J. Riley (United Kingdom), S. Sato (Japan),
M. Schemper (Austria), J. de Motta-Singer (Brazil),
M.L. Thompson (USA/South Africa), M. Vaeth (Denmark).

27th CONFERENCE ON STOCHASTIC PROCESSES AND THEIR APPLICATIONS (SPA)

Place: Cambridge, UK.
Date: July 9-14, 2001.
Organizer: J.R. Norris
email: spa27@staslab.cam.ac.uk.

BERNOULLI 2000 SYMPOSIUM ON NEURAL NETWORKS, LEARNING AND STATISTICAL INFERENCE

Place: Tokyo
Date: To be fixed.
Organizer: S. Y. Amari (Tokyo)

SYMPOSIUM ON DEFINING THE SCIENCE STOCHASTICS. IN MEMORIAN OF JAKOB BERNOULLI

Its aim is to focus on different aspects of the so called Science Stochastics for defining and describing the role of it and its educational needs. Sessions on history of stochastics, on terminology, on competing approaches and on the future of the science are planned.

Place: Würzburg, Germany.
Date: October, 2000.
Organizer: Elart von Collani
University of Würzburg
Sanderring 2.
D-97070. Würzburg, Germany.
email: collani@mathematik.uni-wuerzburg.de
Program Committee: E. von Collani, Würzburg,
V.V. Kalishnikov (Moscow),
M. Dumitrescu (Bucharest).

FINANCE AND STATISTICS

Place: Sidney, Australia.
Date: December 8-11, 2000.
Organizer: Eckhardt Platen, Sidney.
More information at: <http://www.bus.uts.edu.au/fin&econ/conferences/qmf99/qmf99.html>

BS 2000 CONFERENCE ON CAUSALITY

Place: To be determined
Date: To be fixed
Organizer: J. Robin, Harvard
email: jm@math.auc.dk

QUANTUM STOCHASTICS

It will take place at EURORANDOM with the objective of exploring the existent interconnections between stochastics and quantum physics. Expected attendants are probabilistics, statisticians and quantum physicists.

Place: Eindhoven, Netherlands.
Date: Autumm, 2000.
Organizer: R.D. Gill, Utrecht.

23rd EUROPEAN YOUNG STATISTICIANS MEETING

Place: Lisboa, Portugal.
Date: August, 15-21, 2001.
Program Committee: A. Davidson [Chair],
T. Alpuin,
N. Lid Hjort,
O. Haggstrom,
Y. Meilijson and M. Piccioni.

RECENT DEVELOPMENTS IN STATISTICS AND PROBABILITY AND THEIR APPLICATIONS

Place: Delhi
Date: December 29, 2000 - January 1^o. 2001.
Organizer: Kanwar Sen
Department of Statistics
University of Delhi
Delhi - 110007
India
email: dustats@del3.vsnl.net.in

X CLAIO

X LATIN-IBERO-AMERICAN CONFERENCE ON OPERATIONS RESEARCH AND SYSTEMS

Mexico City
September 4-8, 2000

CONFERENCE APPROACH

The CLAIO (Congreso Latino-Ibero-Americano de Investigación de Operaciones), celebrated every other year in different Latin American cities, is sponsored by the Latin-Ibero-American Association for Operations Research (ALIO). It started in Rio de Janeiro, in 1982, and has alternated since between Río, Buenos Aires, Santiago and Mexico City.

Their main goals are to further the exchange of experiences; to contribute, establish, and deepen ties between researchers and practitioners in the region and to help young undergraduate and graduate students in their professional development.

Next CLAIO will take place in Mexico City, September 4-8, 2000, and will be organized by the Mexican Institute for Operations Research and Systems (IMSIO), Mexico City, the largest city in the world, is modern and cosmopolitan. It is an exciting combination of pre-Hispanic, colonial and modern monuments and architecture, built over the ruins of Tenochtitlan, the Aztec capital.

PROGRAM COMMITTEE

Irene Loiseau, Argentina	Jaime Barceló, Spain	Silvano Martello, Italy
Isabel Méndez, Argentina	Laureano Escudero, Spain	Carlos Coello Coello, Mexico
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Andrés Weintraub, Chile	Hamdy Taha, United States	Joaquim Judice, Portugal
Sira Allende, Cuba	Catherine Roucairol, France	Thomas Liebling, Switzerland
Eunice Ponce de León, Cuba	Gerard Plateau, France	Héctor Cancela Bosi, Uruguay
Víctor Valqui Vidal, Denmark	Berc Rustem, England	María Urquhart, Uruguay
	James Charles Cochrane, England	Julián Araoz, Venezuela

TOPICS

The conference will focus on the development of Operations Research tools in the following areas:

- Combinatorial Optimization, • Game Theory, • Mathematical Programming, • Routing, • Production Planning, • Allocation Theory, • Integer Programming, • Economics and Financial Management,
- Network Flows, • Artificial Intelligence, • Multi-criteria Optimization, • Simulation, • Heuristics, • Graph Theory, • Inventory Theory, • Nonlinear Programming, • Location, • Interior Point-Methods,
- Stochastic Processes, • Finance Engineering.

SUBMISSION OF PAPERS

The official languages of the X CLAIO are Spanish, English and Portuguese, Authors must submit in extended abstract (4 to 6 pages), including title, author's name, affiliation, electronic and postal addresses. A short abstract (no more than 100 words) is also required. Extended abstracts must be written in English, Spanish or Portuguese, in WORD or LATEX with 11 point Arial fonts, 1.5 cm between lines and 2.5 cm margins on 21.6 cm x 27.9 cm pages.

Submissions must be sent by electronic mail to MSc. Felipe Maldonado (Chairman of the X CLAIO) at: claio@quitel.cs.buap.mx, or by ordinary mail to: Felipe Maldonado, Apartado Postal 22-167, México, D.F., 14091.

Authors whose works are selected by the referees of the X CLAIO will be invited to submit their completed articles to Investigación Operativa, sending them before October 30, 2000, for their inclusion in a specially arbitrated edition.

X LATIN - AMERICAN CONFERENCE ON OPERATIONS RESEARCH AND SYSTEMS



THE XIV COMPSTAT CONFERENCE OF THE INTERNATIONAL ASSOCIATION FOR STATISTICAL COMPUTING

(COMPSTAT 2000)

will be held on August 21-25, 2000 in Utrecht,
The Netherlands.

Statistical computing provides the link between statistical theory and applied statistics. As at previous Compstats, the scientific programme will cover all aspects of this link, from the development and implementation of new statistical ideas through to user experiences and software evaluation.

The scientific programme will consist of a variety of sessions, such as parallel and plenary presentations, invited and contributed papers, poster sessions, one or two tutorials and software demonstrations.

The Scientific Programme seeks papers touching on all aspects of computational statistics.

This includes theory, applications and implementations. Papers in the field of Official Statistics, is papers in the field of data collection, data editing, data analysis and data publications are also welcomed.

Further details on the paper submission process and full conference information can be found on the COMPSTAT 2000 web site:

<http://neon.vb.cbs.nl/rsm/compstat/spc.htm>

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<http://www.elsevier.com>

THIRD INTERNATIONAL CONFERENCE "Differential Equations and Applications"

Saint-Petersburg State Technical University
Saint-Petersburg, Russia
2000, June 12-17

ORGANIZERS

Department of Mathematics and Laboratory of Nonlinear Analysis, St. Petersburg Technical University.

Editorial Board of the Electronic Journal "Differential Equations and Control Processes".

CONFERENCE CHAIR

George Osipenko, St. Petersburg Technical University: math@math.hop.stu.neva.ru

FOCUS

Discussion of latest advances in the development of the theory of ordinary differential equations and the role of the theory for explanation of some nonlinear effects arising in real systems as well as demonstration of up-to-date efficient methods for solution of applied technical problems.

Symposium

"Discrete Methods in Mechanics and Mechanical Engineering".

TOPICS

The list of possible topics includes (but is not limited to) the following:

- qualitative theory of ordinary differential equations, • dynamical systems, • constructive methods and computer-oriented algorithms, • computer modeling in dynamical systems, • discrete methods in mechanics and mechanical engineering, • mathematical models in biology, medicine, ecology, etc., • applications to physics, electrotechnics and electronics, • dynamic economic models, and
- numerical methods.

SCIENTIFIC PROGRAM

The Program will consist of one-hour lectures to be given by the plenary speakers and parallel sessions for short 20-minutes communications by the participants on their recent research. The detailed schedule of all plenary talks and parallel session presentations will be printed in the conference program.

WORKING LANGUAGES

The working languages are English and Russian.

REGISTRATION

The mathematical community is warmly invited to attend.

More information and registration form are available by e-mail:

diff2000@osipenko.stu.neva.ru and ershov@eug.usr.abu.spb.ru

REGISTRATION FEES

1. Participant 100 (US dollars)
2. Student 25 (US dollars)
3. Participant from the Former
4. Soviet Union (FSU-participant) 25 (US dollars)

Payment details

For participants from abroad Russia registration fee in US dollars have to be sent to

SWIFT ICSPRU2P XXX
Industry & Construcion Bank Plc
Saint-Petersburg
Nevsky Avenue, 38
Osipenko Georgiy
N 42301840637005004866

For Russian participants we hope to reduce the fee provided the Russian Foundation for Basic Research gives a support. However, for the publication of conference abstracts it is necessary to transfer in an advance (by mail) payment at a rate of 100 rubles to the address (to write in Russian):

195298, St. Petersburg, Lenskaya street, house 19, korp. 2, flat 446,
Ershov Evgenii Konstantinovich.

MEETIN SITE

Saint-Petersburg State Technical University
Polytechnicheskaya st. 29, St. Petersburg.

PROCEEDINGS

It is suggested to publish refereed Conference proceedings including full versions of selected papers accepted for presentation.

4th GAMM/IFIP - WORKSHOP on

STOCHASTIC OPTIMIZATION: Numerical Methods and Technical Applications

June 27-29, 2000

Federal Armed Forces University Munich
Neubiberg/Muenchen, Germany

Organized by the GAMM-Fachausschuss Angewandte Stochastik und Optimierung, the IFIP-Working Group WG 7.7 on Stochastic Optimization and the DMV-Fachgruppe Stochastik.

Sponsored by:

- GAMM - Gesellschaft für Angewandte Mathematik und Mechanik
- IFIP - International Federation for Information Processing
- UniBwM - Federal Armed Forces University Munich

INTERNATIONAL PROGRAM COMMITTEE:

K. Marti, Chairman (D)
H.A. Eschenauer (D)
L. Fahrmeir (D)
P. Kall, Chairman IFIP-TC 7 (CH)
J. Mayer (CH)
F. Pfeiffer (D)
R. Rackwitz (D)
G.J. Schueller (A)

FOR MORE INFORMATION CONTACT:

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WWW: [http://www.unibw-](http://www.unibw-muenchen.de/campus/LRT/LRT1/frame/professur1/WORKSHOP/workshop.html)

[muenchen.de/campus/LRT/LRT1/frame/professur1/WORKSHOP/workshop.html](http://www.unibw-muenchen.de/campus/LRT/LRT1/frame/professur1/WORKSHOP/workshop.html)

SCOPE:

The objective of this Workshop is to bring together scientists from Stochastic Programming and from those Engineering areas, where Mathematical Programming models are common tools, as e.g. in Optimal Structural Design, Optimal Topology Design of "New Materials", Optimal Path Planning for Robots, Power Dispatch, etc.

The effects of taking into account the inherent randomness of some parameters of these problems, i.e. considering Stochastic Programming instead of Mathematical Programming models in order to get solutions being more reliable, more robust, but not more expensive, shall be discussed.

On the other hand, the Workshop will cover all aspects of approximations of (linear and non-linear) stochastic optimization problems for designing appropriate numerical solution procedures for stochastic

programs, as e.g. Taylor expansions, discretization, decomposition methods, stochastic approximation, response surface and DOE methods. Furthermore, stochastic optimization methods under real time conditions shall be discussed.

TOPICS:

- *Approximation Methods for Stochastic Optimization Problems.*
- *Numerical Methods for Solving Stochastic Programs*
- *Stochastic Optimization Methods under Real Time Conditions*
- *Structural Optimization, Topology Optimization, Optimal Design, Robust Design*
- *Optimal Path Planning for Robots, etc.*
- *Resampling for optimization and prediction*
- *Stochastic restrictions, Bayes procedures and Markov Chain Monte Carlo Simulation*

LOCATION:

The Workshop will be held at the Universität der Bundeswehr München (Federal Armed Forces University Munich) in Neubiberg, Werner-Heisenberg-Weg 39, Germany. Rooms have been reserved in the dormitories at the University Campus.

Neubiberg, southeast of Munich, can be reached easily from Munich main station by S-Bahn S1 or by U-Bahn (underground) U2 to Neuperlach Süd (25 minutes).

Further details are sent early in 2000.

PARTICIPATION:

By invitation (the number of participants is limited).

If you are interested to participate, please, contact the Program Committee Chairman, Prof. Marti, UniBw München, as soon as possible, but not later than December 31, 1999.

HINTS FOR THE PRESENTATION OF PAPERS:

Papers may take 30 or 45 minutes (including discussion)

The lecture room is equipped with blackboards and an overhead projector.

Mailing Address 

**4th GAMM/IFIP Workshop on Stoch.
Optimization**
Univ. Prof. Dr. K. Marti
Universität der Bundeswehr München
Fakultät für Luft- und Raumfahrttechnik
Institut für Mathematik und Rechneranwendung
Werner-Heisenberg-Weg 39
D-85577 Neubiberg/München
Germany.

