

EURO Bulletin

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from EURO Vice-President 2, Professor Tuula Kinnunen

EURO Working Groups & Networks Annual Report

The first EURO Working Group was created at the first EURO Conference, EURO I, in Brussels, in 1975. Since that several EURO Working Groups (EWGs) have been established. They have been established to give an organizational framework for smaller groups of researchers interested in a specific OR-topic. EWGs organize meetings and most of them publish a newsletter regularly. A common purpose for all the EWGs is to exchange ideas, experience, and results.

For forming a new EWG a group of

people interested in cooperation in a specific topic of OR is needed. In order to apply to become a EURO Working Group the group has to produce a short report containing preferably the objectives of the group and a tentative schedule of activity. Application forms can be obtained from the officers of EURO. The EURO Executive Committee decides on delivering the EURO label.

If the EURO label is delivered to a group it means that EURO has to be kept informed about the activities of the group. EURO includes the new EWG in the list of its official activities.

In forming a new EWG the following principles have to be met:

1. The EWGs should as far as possible bring together people with different professional backgrounds (industry, university, etc.).
2. They should be actually international; this requirement is met satisfactorily if at least 4, but possibly 5 or 6 nations are represented at each meeting and if the meetings do not take place too often in the same country.
3. Any group should be open to any

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individual member of any EURO member society. Also persons that are not members of a national OR society can be accepted.

It is possible for a EWG to apply for financial help from EURO. Financial support can be granted e.g. for printing costs of common stationery, for administrative costs in the establishment of a new EWG and occasionally for meeting expenses, such as those of guest speakers, to some specific colloquium or seminar. On the other hand the EWGs have a duty to report yearly on their activities to the second EURO Vice-President. EWGs should also provide EURO with general information about some other (e.g. professional) body with which it plans a joint meeting.

To ease the work of EWGs EURO-k conferences can provide time and space for the meetings of the EWGs and the meetings can be set within the framework of the conference itself. Nowadays several EWGs have their meetings as side meetings of a EURO-k conference usually on the day(s) before the conference proper starts, or the day after it finishes. Other groups have their meetings between the EURO-k conferences.

If a group becomes inactive, it can be dissolved.

In more detail the matters of EURO working groups are stated in the charter of the EURO Working Groups.

The following active EURO Working Groups exist (in the order of estab-

lishment, with the year in brackets):

1. Multicriteria Aid for Decisions (1975)
2. Fuzzy Sets/IFSA European Chapter (1975)
3. OR Applied to Health Services (1975)
4. EUROBANKING special interest group (1975)
5. Locational Analysis (1984)
6. ESIGMA - EURO Summer Institute Group on Multicriteria Analysis (1985)
7. Project Management and Scheduling (1986)
8. Financial Modelling (1986)
9. ECCO European Chapter on Combinatorial Optimization (1987)
10. Decision Support Systems (1989)
11. Urban Traffic and Transportation (1991)
12. Information Systems (1991)
13. OR network, EURO's network for practitioners (1993).

More information about Working Groups can be obtained from EURO. The EURO-officer in charge of Working Groups is the second Vice-President: Lic. Sc. (Econ.) Tuula Kinnunen, Turku School of Economics and Business Administration, Rehtorinpellonkatu 3, SF-20500 Turku, Finland. Tel.: (358) (21) 63 83 304 (office), (358) (21) 86 96 76 (home), fax: (358) (21) 63 83 302, telex: 62310 tkkk sf, e-mail: tkinnunen@finabo.abo.fi.

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Multicriteria Aid for Decisions

COORDINATOR: Prof. Bernard Roy, LAMSADE, Université de Paris - Dauphine, Place du Maréchal de Lattre de Tassigny, F-75775 Paris Cedex 16, France. Tel.: (33) (1) 44 05 42 87, fax: (33) (1) 44 05 40 91, e-mail: roy@lamsade.dauphine.fr.

PURPOSE AND HISTORY: Multicriteria decision aid is an important branch of Operational Research. Beyond the exchanges and meetings which already exist by means of the international conferences and the publications in the scientific journals, the objectives of the working group are the following:

- to contribute to develop an original way of thinking, at a European level in the field of multicriteria aid for decisions;
- to allow each member of the group to present his research, submit those to the critical discussion of the group, to present open problems;
- to keep a continuity in the exchanges and the work from one meeting to another;
- to keep the climate of a working group and not to transform the meeting in a small congress.

The working group was created at EURO I (Brussels, 1975). Since that time, two meetings are held each year, in Spring and Autumn. The 38 meetings have been organized by 14 different countries and they led to make participate to the life of the

group 679 different people.

NUMBER OF MEMBERS: 250. In 1975, the group consisted of 29 members divided into 5 different countries. Among the present members, 42 were already members in 1980. At this period, 23 countries were represented. During these last years, each meeting includes 5 to 20 new members (with an average of 13). These figures show how the group is alive, to the biological sense of the term.

NEWSLETTER: 2 issues per year. Editor: João Climaco, INESC, Rua Antero de Quental 231 cv, P-3000 Coimbra, Portugal.

ACTIVITIES 1993:

- the 37th meeting: Liège, Belgium, March 11-12, 1993. Organizers: Gérard Colson (Service de Méthodes Quantitatives de Gestion et Systèmes, Ecole d'Administration des Affaires, Bâtiment B. 31, Bte 50, Université de Liège, Liège 4000, Belgium) and Marc Roubens (Service de Statistique et Méthodes Quantitatives de Gestion, Faculté des Sciences, 15 avenue des Tilleuls, Bâtiment D1, Université de Liège, Liège 4000, Belgium).
- the 38th meeting: Ispra, Italy, October 7-8, 1993. Organizer: Massimo Paruccini, Centre Commun de Recherche, Institut d'Ingénierie des Systèmes et Informatique, T.P 650, Ispra 21020, Italy.

FUTURE PLANNED ACTIVITIES:

- the 39th meeting: Poznan, Poland, April 7-8, 1994. Organizers: Roman Slowinski, Jan Weglarz, Piotr Czyzak, Andrzej Jaszkievicz, Institut d'Infor-

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matique, Université Polytechnique de Poznan, 60-965 Poznan, Poland.

-the 40th meeting (and 20th Anniversary): Paris and Bordeaux (France), October 6-7 or 13-14, 1994. Organizers: Olivier Lavielle (Ministère de l'Agriculture, ENITA de Bordeaux, 1 cours du Général de Gaulle, B.P. 201, 33175 Gradignan Cedex, France), Bernard Roy (LAMSADE, Université Paris-Dauphine, Place du Maréchal De Lattre de Tassigny, 75775 Paris Cedex 16, France) and Claude Vidal (Sous-Directeur, Ministère de l'Agriculture et de la Pêche, Service Central des Enquêtes et Etudes Statistiques, 4 avenue de Saint-Mandé, 75570 Paris Cedex 12, France).

Fuzzy Sets / IFSA European Chapter

COORDINATOR: Dr. Hans Hellen-
doorn, Siemens AG, Dept. ZFE ST
SN4, D-81730 Munich, Germany.
E-mail: hah@zfe.siemens.de.

PURPOSE AND HISTORY: This working group was formed at the EURO I Congress in Brussels in 1975. The initiator and first chairman of the group was Prof. H. Zimmermann of RTWH, Aachen, Germany. The organization of the group, the forms its activities have taken, and the vitality and activity of the group are to a great extent due to his efforts.

The second chairman, Prof. Christer Carlsson of Abo Akademi University, Finland, was acting since 1979 until

1986.

During the First IFSA (International Fuzzy Systems Association) Congress in Mallorca on July, 1-6, 1985, with due permission of the EURO Council the working group constituted itself as the European chapter of IFSA. Prof. Carlsson was elected as the first president of the European Chapter, with Prof. M. Roubens the president-elect, Prof. P. Smets treasurer, Prof. U. Hohle secretary and Dr. D. Dubois and A. Straszak members at large. Prof. Roubens served as the president from 1986 until 1993.

The purpose of the IFSA-EC is to communicate and to promote knowledge of the theory of Fuzzy Sets and related areas and their applications.

In order to realize the objectives the IFSA-EC publishes Newsletters and Bulletins, organizes workshops and symposia, establishes sub-chapters and sponsors such other activities consistent with the objectives as may be directed by the Board.

NUMBER OF MEMBERS: 200 (EURO), 107 (IFSA).

NEWSLETTER: The French bulletin BUSEFAL is used as a forum for newsletters to the members, and members have been encouraged to submit working papers to BUSEFAL. The group supports the Fuzzy Sets and Systems journal edited by North-Holland.

ACTIVITIES 1993: Organization of invited sessions at the EUFIT 93

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conference in Aachen, Germany. Participation at the FLAI 93 in Linz, Austria.

FUTURE PLANNED ACTIVITIES:

- Organization of a Workshop at the EURO XIV conference in 1995.
- Organization of invited sessions at the EUFIT'94 conference in Aachen.

OR Applied to Health Services

COORDINATOR: Dr. David Clayden, The United Leeds Teaching Hospitals NHS Trust, Information Services Directorate, Trust Headquarters, Leeds General Infirmary, Great George Street, Leeds LS1 3EX, UK. Tel.: (44) (532) 31 68 01, fax: (44) (532) 31 66 53.

SECRETARY: Dr. Marek Lubicz, Institute of Organisation and Management, Technical University Wroclaw, Wybrzeze Wyspianskiego 27, 50-370 Wroclaw, Poland. Tel.: (48) (71) 202864, fax: (48) (71) 20 34 32 or 22 36 64.

PURPOSE AND HISTORY: The decision to set up the Health Working Group was taken at EURO I, Brussels, January 1975, making this group one of the first WGs established by EURO. The first meeting of the group took place in September 1975 in Exeter, UK and meetings have been taking place in different European countries every summer since then.

The aims of the group were restated at our 1991 meeting to be:

1. To improve co-operation and communication, and to encourage and support inspiration by group members.
2. To enable and support inter-disciplinary work on European health care issues.
3. To examine European health care systems using rational and systematic methods.
4. To encourage bilateral contacts between members throughout each year.

The title of the group "Operational Research Applied to Health Services" reflects the premise that the major challenge for OR scientists currently working in the health field lies not in developing new and/or more sophisticated techniques, but in using what expertise they currently possess to make more of an impact on the delivery of healthcare.

The idea is to provide a professional network, where the emphasis is on the exchange of professional knowledge by establishing social relations. To achieve this end, the size of the group is kept relatively small, continuity of the group is regarded as highly valuable and the social programme of the meetings plays an important part.

NUMBER OF MEMBERS: 104 on the register from 21 countries, 61 members have a continuing involvement and attend the annual meetings.

NEWSLETTER: Editor: Marek Lubicz, see the address above. The Decem-

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ber 1993 issue on Health Care Information and Modelling was published in association with the EC TEMPUS scheme, contributing to educational programmes in Central and Eastern Europe.

ACTIVITIES 1993: The 19th Annual meeting took place in Brighton, UK, and was well attended and very successful.

FUTURE PLANNED ACTIVITIES: The 20th Annual meeting will take place in Chania, Crete from July 31st to August 5th, 1994. Enquiries about attendance to Vassilis Moustakis, at the Institute of Computer Science of the Foundation of Research and Technology, Hellas, tel.: (30) (81) 22 93 46, fax: (30) (81) 22 93 42, e-mail: moustaki@cs1.forth.gr.

EUROBANKING special interest group

COORDINATOR: Mr. Robert Park, Secretary General, Human Resources and Strategic Development, National Westminster Bank plc, 41, Lothbury, London EC2P 2BP, United Kingdom. Tel.: (44) (71) 72 61 322, fax: (44) (71) 72 61 304.

PURPOSE AND HISTORY: The European Working Group on EUROBANKING Operational Research in Banking was set up in Brussels in January 1975 at the EURO I Conference sponsored by the International Federation of Operational Research Soci-

eties.

The purpose of the group is for OR practitioners to exchange and stimulate ideas about the techniques, experience, philosophy and application of operational research in banking. A secondary objective is to project operational research to bank management.

The group has members from virtually all Western European countries and the total membership is over one hundred. Membership is open to all those employed by banks in operational research or similar departments. Membership is at present free to all members of National European Operational Research Societies.

There is a National Co-ordinator for each country represented in the group. Normally National Co-ordinators meet with the Chairman and Secretary twice a year as the Executive Committee. The role of the National Co-ordinator is a contact point, co-ordinator of views and representative of his country.

NUMBER OF MEMBERS: Over 100.

ACTIVITIES 1993: Meeting in Bled, Slovenia, May 18-21, 1993. Host: SKB Banka.

FUTURE PLANNED ACTIVITIES: Meeting in Swindon, England, May 17-20, 1994. Host: Nationwide Building Society. Chairman of the meeting: Roger Wright, Nationwide House, Pipers Way, Swindon SN38 1NW, United Kingdom. As usual, the

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meeting will be open to either those employed or sponsored by banks and similar financial institutions.

Locational Analysis

COORDINATOR: Prof. Christian Michelot, Université de Bourgogne, Laboratoire "Analyse Appliquée et Optimisation", BP 138, F-21004 Dijon Cedex, France. Tel.: (33) (80) 39 58 73, fax: (33) (80) 39 58 90, e-mail: michelot@satie.u-bourgogne.fr.

PURPOSE AND HISTORY: The decision to set up a Working Group on the field of Locational Analysis has been taken during the First EURO Summer Institute (Brussels, July 1984) in order to provide a network of people working together and to keep a continuity in the exchanges. So, the major goal of the WG is to stimulate the exchange of information and research; continuity of the group is regarded to be of main importance, and friendship among members plays an important role. The group holds yearly meetings organized by one of its members. It must be pointed out that the WG is not exclusive. Anybody interested in presenting his/her work, participating in the discussions, or more simply learning and/or consulting about the subject of locational analysis may join the group; his/her participation will be greatly appreciated. Either theoretical contribution (concepts, methods,...) or applied research, presentation of software, are welcome. Communications, discussions or surveys on new

applications, open problems, connections between the field of location theory and related areas (location-routing problems, mathematical programming, multicriteria analysis, cluster analysis, approximation theory, computational geometry,...) are of interest.

NUMBER OF MEMBERS: About 80.

ACTIVITIES 1993: The working group has met at ISOLDE VI (International Symposium on Locational Decisions) "triannual world congress on location theory" on the beautiful greek islands Lesvos and Chios, June 17-24, 1993. Organizers: John Karkazis and Brian Boffey.

The planned meeting of September 1993 at Rotterdam was cancelled.

FUTURE PLANNED ACTIVITIES: The 7th meeting will take place at Brussels, May 9-11, 1994. Organizer: Frank Plastria, Vrije Universiteit Brussel, INVE/Center for Industrial Location, Pleinlaan 2, B-1050 Brussels, Belgium. Tel.: (32) (2) 64 13 609, fax: (32) (2) 64 13 645, e-mail: faplastr@vub.ac.be.

ESIGMA - EURO Summer Institute Group on Multicriteria Analysis

COORDINATOR: Prof. Carlos A. Bana e Costa, CESUR - IST, Av. Rovisco Pais, P-1096 Lisboa, Portugal. Tel. (351) (1) 80 97 05 or (351) (1) 80 95 80, fax: (351) (1) 80 98 84, telex: 634230 ISTUTL-P.

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PURPOSE AND HISTORY: At the end of the Second EURO Summer Institute (Brussels, July 1985), which was devoted to Multicriteria Analysis, the participants expressed a strong interest in continuing to work together. This was the result of three weeks of fruitful and friendly collaboration. So, the idea was born to create a working group on Multicriteria Analysis.

ESIGMA is open to everybody who is interested in Multicriteria Analysis and who wants to present results, applications or open problems, and to participate in the discussions, or simply to learn about this subject and to be kept well informed of its recent developments. One very important aspect is that the meetings of ESIGMA should not be too formal: a large place should be given to discussions. This means that problems which are not completely solved are welcome.

As another group already exists within the EURO on the same subject (Multicriteria Aid for Decisions), it must be pointed out that the purpose of ESIGMA obviously is not to be in competition with it but to be complementary to it in two ways essentially:

a) in order to make it easier for the researchers to attend the meetings of the group, ESIGMA will meet once a year, at the occasion of the EURO Conferences; special arrangements will be made for years without a EURO Conference. (The meetings of the other group are in March and October of each year).

b) in order to encourage people of all nationalities to participate, the main language of ESIGMA will be English (an understanding of French is recommended for participation in the meetings of the other group).

NUMBER OF MEMBERS: 216

NEWSLETTER: 2 issues per year. Editor: P. Vincke, Université Libre de Bruxelles, C.P.210, Bld. du Triomphe, B-1050 Brussels, Belgium.

ACTIVITIES 1993: The 8th Meeting of ESIGMA was held at Hotel Ritz in Lisbon, Portugal, July 11, 1993. The meeting was organised by Carlos A. Bana e Costa and Jos Filipe Rafael, IST/CESUR (Portugal). The theme of the Meeting was "Real World Applications of MCDA Methodologies". Three invited lectures were presented and discussed: (1) "Cleaning up High Level Nuclear Wastes: A Multi-tribute, Multiple Stakeholder Decision Analysis", by Detlof Von Winterfeldt, University of Southern California (USA), illustrating the MAUT approach; (2) "Analysis of Tenders: Aiding the Selection of a Package-Sorting Machine", by Dennis Bouyssou, ESSEC (France), illustrating the outranking approach; and (3) "Stockpiling Critical Materials and Multiple Objective Analysis of Input-Output Models for Emergency Management", by Pekka Korhonen, Helsinki School of Economics (Finland), illustrating an interactive approach. The social program included a trip to "Paradise Beach" and a barbecue at the "Sol-Troia Beach Club". There were 44 participants

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from 15 countries in the meeting.

FUTURE PLANNED ACTIVITIES: The 9th Meeting, July 23, 1994, Glasgow, United Kingdom. Organizer: Prof. Valerie Belton, University of Strathclyde, Management Science Department, 26, Richmond Street, Glasgow G1 1XH, U.K., tel.: (44) (41) 55 24 400, fax: (44) (41) 55 26 686.

Project Management and Scheduling

COORDINATOR: Prof. Luis Valadares Tavares, CESUR-IST, Av. Rovisco Pais, P-1096 Lisboa, Portugal. Tel.: (351) (1) 80 97 05 or (351) (1) 80 95 80, fax: (351) (1) 80 98 84, telex: 63423 ISTUTL-P.

PURPOSE AND HISTORY: The EURO Working Group on Project Management and Scheduling has been established by Prof. L. Tavares and J. Weglarz during the EURO VIII conference, Lisbon, September 1986. It was decided to organize a workshop every two years.

Gathering most promising theoretical and applied advances in Project Management and Scheduling to assess the state of the art of this field and its potential to support Management systems is the objective of these workshops.

The first workshop was held in Lis-

bon in July 1988, organized by L. Tavares. It gathered sixty participants from 16 countries. A special issue on Project Management and Scheduling was published by EJOR including selected papers from this Workshop (November, 1990). The second workshop was organized by J. Carlier in Compiègne, France in 1990.

NUMBER OF MEMBERS: 150.

FUTURE PLANNED ACTIVITIES:
-The 4th International Workshop on Project Management and Scheduling, Leuven, Belgium, July 12-15, 1994. Information: Prof. Willy Herroelen, Department of Applied Economics, Katholieke Universiteit Leuven, Dekenstraat 2, B-3000 Leuven, Belgium. Tel.: (32) (16) 285770, fax: (32) (16) 284527.

Financial Modelling

COORDINATOR: Prof. Dr. Jaap Spronk, Erasmus University Rotterdam, Department of Finance, P.O. Box 1738, NL-3000 DR Rotterdam, The Netherlands. Tel.: (31) (10) 40 81 282, fax: (31) (10) 45 26 399, e-mail: email@finbel.few.eur.nl.

PURPOSE AND HISTORY: The EURO Working Group on Financial Modelling was founded in September 1986 in Lisbon. The primary field of interest for the working group can be described as "financial models that help to solve problems faced by financial managers in the firm". From this the following objectives of the working group are distinguished:

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- providing an international forum for exchange of information and experience on financial modelling;
- encouraging research in financial modelling (new techniques, methodologies, empirical studies, software, etc.);
- stimulating and strengthening the interaction between financial economic theory and the practice of financial decision making;
- cooperating and exchanging information with other universities and financial institutions throughout Europe.

The meetings of the Working Group are organized twice a year, in April and in November. Earlier meetings were held in Belgium, Curacao, Cyprus, Finland, Italy, The Netherlands, United Kingdom and Germany. The meetings are attended by 80-100 members on average, most of them scientists but also representatives from the financial institutions, and are usually organized on Thursday, Friday and Saturday morning. The organizers are expected to schedule three types of sessions: a round table session with invited speaker(s), regular sessions with the presentation of refereed papers and balloon sessions in which unrefereed papers, new topics and "loose" ideas can be discussed.

NUMBER OF MEMBERS: About 400 members from 24 different countries (of which approximately 100 members constitute the more "active kernel" of the group).

NEWSLETTER: The newsletter of the

working group, called NEWSFLOW, is published twice a year, one month before each meeting. It contains general information about the Working Group, information about the next meeting(s), abstracts of papers of the next meeting, letters from readers, announcements of financial seminars, calls for papers, a list of working papers, etc.

ACTIVITIES 1993: The April meeting was organized by professor Stavros Zenios (University of Cyprus) and the November meeting by professor Erio Castagnoli (University Luigi Bocconi in Milan, Italy).

FUTURE PLANNED ACTIVITIES: The next meeting will be held in Rotterdam, The Netherlands, May 26-28, 1994 and is organized by Aloy Soppe, Jaap Spronk, Erik Vermeulen and Ton Vorst. The November meeting will probably be organized by professor Sandr Komlsi (Pcs, Hungary).

ECCO European Chapter on Combinatorial Optimization

COORDINATOR: Prof. Catherine Roucairol, Université de Versailles & INRIA, 45 Avenue des Etats Unis, F-78000 Versailles, France. Tel.: (33) (1) 39 25 40 88, fax: (33) (1) 39 25 20 57, e-mail: Catherine.Roucairol@prism.uvsq.fr.

BOARD: Prof. Dominique De Werra, EPFL Lausanne, Switzerland; Prof.

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Paolo Toth, DEIS, University of Bologna, Bologna, Italy.

PURPOSE AND HISTORY: The EURO Working Group on Combinatorial Optimization, ECCO (European Chapter on Combinatorial Optimization) was created in 1987 by C. Roucairol, D. de Werra and A. Rinnooy Kan. This group provides an excellent opportunity to discuss recent and important issues in Combinatorial Optimization and its applications with European combinatorialists; most European countries are represented.

The meetings have a regular basis (once a year during Spring) and must nicely combine scientific works and exchange of new ideas with an exciting atmosphere like Paris May 88, Venice June 89, Barcelona May 90, Dubrovnik May 91 (cancelled). An abstract booklet is distributed to the participants at each meeting and additional copies to all members after the meeting.

NUMBER OF MEMBERS: Approximately 350/ 100 at each meeting.

ACTIVITIES 1993: The 6th meeting; Bruxelles, Belgique, April 26-28, 1993. Organizer: Prof. Martine Labbé, CEME CP B9, Université Libre de Bruxelles, 50 Avenue F.D. Roosevelt, B-1050 Brussels, Belgium. Tel.: (32) (2) 65 03 836, fax: (32) (2) 65 04 012, e-mail: mlabbe@ulb.ac.be.

FUTURE PLANNED ACTIVITIES: The 7th meeting, Milano, Italy, February 21-23, 1994. Organizer: Prof.

Francesco Maffioli and Prof. Anna Sciomachen, Address: Prof. Anna Sciomachen, Istituto di Matematica Finanziaria, Università degli Studi di Genova, Via Bertani 1, I-16125 Genova, Italy, fax: (39) (10) 20 95 243, e-mail: sciomach@imiucca.csi.unimi.it.

Decision Support Systems

COORDINATOR: Prof. Tawfik Jelassi, INSEAD, Boulevard de Constance, F-77305 Fontainebleau, France. Tel.: (33) (1) 60 72 40 17, fax: (33) (1) 60 72 40 49 or (33) (1) 60 72 42 42, e-mail: jelassi@freiba51.bitnet.

PURPOSE AND HISTORY: The place was the beautiful island of Madeira and the occasion was the 1989 EURO Summer Institute. A decision was made to create the EURO Working Group on Decision Support Systems as a forum for continued exchange and collaboration among the Ps and the Ls (i.e. the Participants and the Lecturers of that institute) and interested new members.

Since that time, the group has come quite a long way. Its members have been very active conducting individual/joint research work as well as giving the group increasing visibility. Several activities have already taken place; many others are in the planning stage. The group has been meeting once a year, every time in a different country.

Other activities include publishing a newsletter, editing special issues of

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DSS -related journals, organizing an international conference on DSS, sponsoring some academic events, and working on joint DSS projects.

NUMBER OF MEMBERS: 82

NEWSLETTER: EuroDSS. Editor: Albert A. Angehrn, INSEAD, Boulevard de Constance, F-77305 FONTAINEBLEAU, FRANCE. Tel.: (33) (1) 60 72 40 00, fax: (33) (1) 60 72 42 42.

ACTIVITIES 1993: The 4th meeting; Sintra, Portugal, July 8-11, 1993. Organizer: Antonio Rodrigues, Universidade de Lisboa.

FUTURE PLANNED ACTIVITIES: The 5th meeting; Turku, Finland, June 30 - July 3, 1994. Information: Timo Leino, Turku School of Economics and Business Administration, Rehtorinpellonkatu 3, FIN-20500 Turku, tel.: (358) (21) 63 83 410, fax: (358) (21) 63 83 451, e-mail: tleino@finabo.abo.fi.

Urban Traffic and Transportation

COORDINATOR: Dr. Maurizio Bielli, Institute of Systems Analysis and Informatics, National Research Council, Viale Manzoni 30, I-00185 Rome, Italy. Tel. (39) (6) 77 161, fax: (39) (6) 77 16 461, e-mail: bielli@iasi.rm.cnr.it.

PURPOSE AND HISTORY: The EURO

Working Group on Urban Traffic and Transportation was founded in July 1991 in Cetraro (Italy) during the 7th Euro Summer Institute on Urban Traffic Management.

The objectives of this EWG are:

- to provide a forum for exchange of information and experiences on research activities on the field of urban traffic and transportation;
- to encourage joint researches and the development both of theoretical methods and applications;
- to promote the cooperation among different institutions and organizations, leaders at national and international level in the field of urban transportation systems.

The primary field of interest for the working group is: Operations Research methods, mathematical models and computation algorithms to solve and support the solution of problems faced by city authorities and public transport companies.

Relevant areas of interest are:

- traffic control and simulation models;
- traffic network equilibrium models;
- land-use and urban transportation planning;
- applications of Combinatorial Optimization;
- public transport management.

The potential activities of the working group can be the following ones:

- organization of meetings and workshops;
- editing of a Newsletter;
- promotion of joint researches;
- implementation, comparison and

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validation of software packages;
-application and transfer of models
and tools to real case environments.

NUMBER OF MEMBERS: 100

NEWSLETTER: A formal newsletter has not been edited till now, but the EURO Bulletins were regularly mailed to members together with information about scientific events and activities concerning the fields the group is interested in.

ACTIVITIES 1993:

- The 2nd meeting, September 15-17, 1993, in Paris, organized by INRETS with 55 participants and 37 papers presented. The book of Proceedings is being printed.
- IFORS 1993: organization of an Invited Session on Urban Traffic Management.
- Cooperation in the organization of the EURO XIII Conference in Glasgow, July 19-22, 1994, Super Stream Location Transportation Logistics, with the choice of Organizers of Invited Sessions and of Tutorials/Research Reviews.
- Cooperation in the organization of the IFAC-IFORS-IFIP Conference on Transportation Systems, China, July 1994.

FUTURE PLANNED ACTIVITIES:

- Editing the Special Issue of EJOR on Modelling Road Traffic Dynamics.
- Organization of the TRISTAN II Conference, to be held in Capri, June 23-28, 1994
- One-day Meeting in Glasgow, on occasion of EURO XIII Conference
- Cooperation in the organization of

the EURO XIV Conference in Jerusalem, 1995, with a presentation of an Invited Review of the Working Group and with the involvement of Organizers of Invited Sessions.

Information Systems

COORDINATOR: Prof. Georgios I. Doukidis, Athens University of Economics and Business, Department of Informatics, 76 Patisision Street, GR-10434 Athens, Greece. Tel. (30) (1) 82 33 523, fax: (30) (1) 82 26 204, telex: 225363 ASOE GR.

PURPOSE AND HISTORY: This new group was formed in July 1991 on the 11th EURO Conference in Aachen with Acting Chairman: Prof. G. I. Doukidis, from Athens University of Economics and Business and Acting Secretary: Ms. J. Kuljis from Roehampton Institute in London. The other members of the committee are: Dr. P. Kanof (Italy), Dr. R. J. Paul (UK), Dr. E. Whitley (UK) and Dr. D. Wikarski (Germany). The group was created to provide a European basis for furthering the study and application of all areas of information systems. It is intended that the group will complement the interests of the UK Operational Research Society, who are sponsoring the European Journal of Information Systems and the First European Conference on Information Systems, to provide a dynamic European focus for this area of interest.

NUMBER OF MEMBERS: About 80.

NEWSLETTER: European Journal of

EWGs and Networks Annual Report

Information Systems (An official publication of the Operational Research Society published by Macmillan).

FUTURE PLANNED ACTIVITIES:

Active participation (in terms of program and organisation) of the WG in the 2nd European Conference on Information Systems, Breukelen, The Netherlands, May 30-31, 1994. The group has decided to have its annual meetings during the European Conferences of Information Systems. Local contact for this year's Conference: Dr. Walter Baets, Bijenrode University, Straatweg 25, NL-36121 BG Breukelen, The Netherlands, fax: (31) (34) 62 64 204. More details about our annual meeting, streams of the Conference, papers etc. can be obtained from the two Co-ordinators of the EWG on Information Systems: Prof. G. Doukidis (see address above) and Dr. E. Whitley, The London School of Economics, Department of IS, Houghton Street, London WC2A 2AE, fax: (44) (71) 95 57 385.

OR network (EURO's network for practitioners)

COORDINATOR: Dr. Marc Salomon, Erasmus University, Rotterdam School of Management (F1-37), P.O. Box 1738, NL-3000 DR Rotterdam, The Netherlands. Tel. (31) (10) 40 82 021, fax: (31) (10) 45 23 595, e-mail: msalomon@fac.fbk.eur.nl.

PURPOSE AND HISTORY: In the world of Operational Research, the gap between theory and practice is well-known. Here "theory" stands for a plethora of activities mainly taking place at universities; they are aimed at, e.g., developing new concepts and creating better algorithms, in other words: at the mathematics of OR. Application of the marvellous findings of our science in real life situations, e.g. in industry, commerce and agriculture, is what we mean by "practice".

Many OR workers have tried to bridge this gap, convinced that it is undesirable, for society as well as for our profession. This has resulted in articles in professional journals, books and courses especially designed to support managers. But the gap continues to exist, albeit less wide than in the past.

At a very modest scale, we have tried since May 1986 to promote our profession outside academic circles. At the IFORS'90 Conference in Athens, we presented our ideas and achievements so far, and had the pleasure of meeting persons interested in joining an OR network. Later on, we received very encouraging mail from all over the world. At EURO XI at Aachen, in 1991, we continued our efforts with the result that more people joined the network. Formal contacts with IFORS and EURO have been established also.

During the IFORS'93 Conference, on Friday 16 July 1993, another meeting of the OR network was held in

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which some 15 persons took part. Its purpose was simple and straightforward: renewing contact with members of the OR network, establishing contact with new members, and exchanging ideas about reducing the gap between OR theorists and possible users of OR products. In the meeting an overview of the present situation and plans for the future were made. Also a discussion about teaching OR in practice in universities, obtaining information about OR applications and case studies (successful and failed), marketing of OR, and the term "theory of OR" etc. was held.

NUMBER OF MEMBERS: 70

NEWSLETTER: The EURO Bulletin is used as a newsletter.

ACTIVITIES 1993: Contacts with board of management of (industrial) companies, in order to convince them of the importance of OR for their decision problems and to find fellowships for Ph.D. and M.Sc. students.

Contacts with:

- academics working on the mathematics of OR;
- OR practitioner, i.e. consultants but also university staff busy with the implementation of OR;
- OR societies: IFORS, EURO, NSOR, DGOR.

Contributions to OR conferences, via sessions such as "OR and the Environment" at IFORS'93 and via informal meetings like the one reported above.

FUTURE PLANNED ACTIVITIES:

Future activities include

- (i) the organization of sessions on practical applications of OR at international conferences, workshops, and seminars for OR and non-OR audiences,
- (ii) the stimulation of OR, practitioners to write articles about their projects in technical and non-technical journals, and in newspapers,
- (iii) to interest OR journals and newspapers to publish articles on OR applications,
- (iv) to finish a textbook on OR applications.

More information about Working Groups can be obtained from EURO. The EURO-officer in charge of Working Groups is the second Vice-President: Lic. Sc. (Econ.) Tuula Kinnunen, Turku School of Economics and Business Administration, Rehtorinpellonkatu 3, SF-20500 Turku, Finland. Tel.: (358) (21) 63 83 304 (office), (358) (21) 86 96 76 (home), fax: (358) (21) 63 83 302, telex: 62310 tkkk sf, e-mail: tkinnunen@finabo.abo.fi.

EWGs and Networks Annual Report

Are you interested in organizing a Mini EURO Conference?

Mini EURO Conferences are international conferences specialized on a particular promising OR theme and they have limited audience of specialists. E.g. National Societies, Working Groups and OR workers can make a proposal to organize a Mini EURO Conference.

EURO has agreed to support at most two Mini EURO Conferences a year. EURO can offer financial assistance in a form of an interest-free loan. This loan can be needed e.g. for printing call for papers and a scientific programme. EURO also assists organizers by giving the channel to distribute the call for papers to all EURO members through the National OR Societies. For the conference EURO is covering no losses, but is neither requesting profits for itself.

The proceedings of the Mini EURO Conference can be offered to be published in EJOR. The editors of EJOR decide, if the proceedings can form a special issue of EJOR.

If you are interested in organizing such a conference, please, contact the second Vice-President of EURO Tuula Kinnunen to obtain detailed information.

The first Up' Conference will be in U.K. Where will the next one be?

At its meeting in Paris in January 1991 the EURO Executive Committee decided to recommend the establishment of a young persons OR conference, later called EURO Prime (Up'), open to persons under the age of 35. The aim of the Up' s is to provide a means for young OR workers in Europe to meet together in a less formal and less costly environment than that of the traditional EURO-K conferences. It is suggested that the conference should be based at a university and use student accommodation.

Up' s will take place every third year in the same year as the IFORS Conference. The first EURO Prime Conference will be in 1996 in United Kingdom and organized by A.H. Christer (U.K.) and J. Telgen (The Netherlands). The organizers are busy making plans and in a due time the EURO Bulletin will give you more information about the conference.

But if you have an idea, where the next one could be, drop a hint to the second Vice-President. You have got still two years time to think

ESI 18-29 April 1995

EURO Summer Institute

Salford University, Greater Manchester, UK.

OR Models of Maintenance

Annoucement and Call for National Delegates

The theme of the Summer Institute will be actual applications of OR modelling for decision-making within industrial maintenance, where the term «Industrial» is given a broad definition. In addition to industrial production plant, the maintenance of assets such as vehicle fleets, housing estates, highways, ships, and rolling stock will be included along with the modelling of management issues, logistic support and manpower planning. maintenance, replacement and reliability issues are appropriate for the Summer Institute.

Young OR scientists working wholly or partly within the topic areas of the Summer Institute are invited to apply via their National OR Society to attend the S.I. to give a presentation on their work, and to receive assistance and feedback in developing their presentation into a paper to be submitted to a special issue of EJOR.

Salford University is host to the 2nd International Conference on Mathematical Modelling in Industrial Maintenance. This three days conference from 19 - 21 April, co-sponsored by the U.K. OR Society, is expected to attract leading figures in the field from around the world and part of the first week's S.I. programme will

be spent attending this conference. This is seen as a valuable opportunity for S.I. members to meet leading speakers in the field and is the key reason the S.I. is earlier in the year than usual. The remaining part of the first week and the second week will be devoted to the members papers and presentations. Tutorial presentations will feature in the S.I. programme and will have an applied "hands on data" bias.

Location

The first week of the Summer Institute will be based at the University of Salford, U.K., situated in the centre of England a few minutes from the centre of Manchester, but within easy reach of beauty spots including the Lake District and the Peak District. Whilst the first week will be spent on campus, the second will be based in a hotel in the historic city of Chester.

Accommodation

Free accommodation and registration will be provided for the selected participants.

EURO Summer Institute 18-29 April 1995

Applications

Applicants should submit their curriculum vitae together with an unpublished paper or an extended abstract within the theme of the Institute to their national OR society. These societies will select their national candidates and submit their applications to the organisers of the Institute before December 1994. The final choice will be made by the Scientific Committee, and the selected candidates notified by 1 January 1995. Attendance at the Institute will normally be restricted to about 20 people with no more than two from any one EURO Society.

Information

Further information can be obtained from your national OR Society or from the Organising Committee.

Scientific Committee: Prof. A H Christer (Chairman), Dr P Scarf (Secretary) University of Salford, Greater Manchester, M5 4WT, U.K.; Prof. F van der Duyn Schouten, Tilburg University, Holland; H Martin, Eindhoven University, Holland.

Organising Committee: Prof. A H Christer, Dr P Scarf (Secretary), Dr D Poole (Social Convenor), Dr K Kob-bacy, Dr R Baker, University of Salford, Dr W Wang, University of Salford; Dr G Bohoris, BirmIngham University; Prof. C Pappis, Piraeus University, Greece.

Contact Address: Centre for Operational Research and Applied Statistics, TIME Research Institute University of Salford Greater, Manchester M54WT, United Kingdom (tel. 061 745 5000 extn 4369).

The Conference Theme

The theme of the conference will be the application of mathematics, operational research and statistical modelling to problems of industrial maintenance, where "Industrial" is given a broad definition. In addition to industry, the maintenance of assets such as vehicle fleets, high rise buildings, housing estates rolling stock and ships will be included along with management issues, logistic support and manpower models.

The area is very broad which is to be expected of an activity which nationally within EURO consumes resources on a par with a Defence budget. Of particular interest to the institute would be case related studies where specific problems have been addressed, but theoretical papers making a recognisable advance in understanding and knowledge will also be welcome. Two tutorial papers will be given during the institute, by Professor Christer and Professor van der Duyn Schouten in addition to industrial visits, a lively and varied social programme is being organised.

A. H. Christer

DEBATE

Aspects of Applications, Aspects of Decision Problems

(Sprong, J., (1993), EURO Bulletin 3(4), 1-2.)

A comment by E. A. Field

Following Jaap Sprong's article in the Winter issue of the EURO Bulletin, I constructed a check-list as an aid to producing useful aspects of practical OR projects.

We cannot of course do anything worthwhile in practice without facing up to the routine details. Try logging your daily work to determine how much of your time is spent on routine activities. You will be surprised to note how much it is.

Looking back over my various OR projects, I can think of many occasions when the success of an OR project hinged more upon the routine details than it did upon the

models and algorithms. That said, I support Jaap's idea and hope the check-list will help.

Check-list to identify aspects of a project *

- Selective reporting
- Consider results
- What is useful
- What is novel
- Report points of interest
- Consider process of obtaining results
- List project stages
- Review significant points
- Report anything unusual
- Contrast this project with another similar one
- List similarities
- List differences
- Report points of interest
- Participants**
- List all who participated in the project
- Client pays the bill
- Owner in whose group the problem resides
- Those affected by the solution
- who gave you computer support?
- Who hindered you?
- Your project management team
- Report any special aspects

Consulting

- Any consultants?
- Any prior knowledge of the results?
- Special skills available relevant to this problem?

Summarise advice

Model

- Which model did you use?
- How did you choose it?
- Which models did you consider and discard?
- Any points worth noting?

Optimisation

- How did you find the best result?
- Alternate methods tried?
- Why choose this one?

Summarise experience

Data

- Difficulties in defining the necessary data?
- Data location?
- Key people providing data?
- Provisions made for new data?

Give useful pointers

Cost / Benefit

- How much did it all cost?
- How long did it take?
- Man hours used?
- Did you meet your service criteria?
- What are direct benefits?
- Any other benefits?

DEBATE

- Client happy to pay your bill?
- Will your service be required in the future?
- Summarise findings
- Hindsight**
- if you started again what changes would you make?
- What risks did you perceive?
- Was the project management procedure adequate?
- What additional skills would you add to your team?
- Any special lessons??
- Conclusions**
- Was the project a hit or a miss?
- Was it one of your best projects?
- Were you glad to see the project finished?
- Did the client get value for money?
- Are there any other aspects of this project that would interest a practical OR person?

Happy check-listing!

*Use check-box to identify which entries are relevant to your project, and which are not. Add any new entries that are relevant to your project.

OR Insight got there 1st

A comment by S. Ward
(OR Newsletter April 1994)

It would seem that Professor Spronk does not read our own OR Insight! I guess that most readers would not classify Insight as one of Professor Spronk's "scientific journals"; certainly Insight aims to provide material that is easily accessible and of practical relevance. Indeed, Professor Spronk might find it useful to read the "Information for Contributors" that appears inside the back cover of every issue of OR Insight, and the first paragraph in particular:

Whatever the case study, authors will be encouraged not merely to describe an intervention for its own sake, but to show how an approach was useful, or why it wasn't. Authors should also attempt to draw general lessons for use in other situations. In the case of long and complex interventions, authors will be advised to write articles which focus on one particular problem issue in the intervention.

The main criteria for publication of contributors are relevance and interest to man-

agers and management science practitioners, and readability. In practice, I suspect Insight is also of relevance and interest to an increasing number of students of OR. Moreover, I hope we already provide practitioners with the opportunity to ventilate insights obtained through applying MS/OR techniques and studying decision problems in practice, without the rigorous requirements for technical sophistication and novelty associated with the "scientific journals". Hopefully, too, OR Insight is stimulating reading even if we may fall short of providing "mind teasing" material!

Naturally I hope ORS members will continue to favour OR Insight with their contributions. But perhaps there will be scope for an interchange of material between OR Insight and the EURO Bulletin in the light of Professor Spronk's initiative. There is certainly scope for wider dissemination of existing literature!

Stephen Ward

EVENTS

Present section was closed on 15 April 1994; «*» denotes information featured previously.

April 29, 1994

*International Colloquium on Fuzzy Logic and its Application, Brussels, Belgium; Information: Prof. F. Broeckx (tel.: +3 218 07 84, fax: +3 218 06 52);

May 4-6, 1994

*4th EURO Mini Conference on Risk Management, Liège, Belgium; Information: Prof. Dr. Ing. Gérard Colson, EURO, Université de Liège, Bâtiment B31, Bte 50, B-4000 Liège, Belgium (tel.: +32 41 56 31 88, +32 41 56 27 21, fax: +32 41 56 28 21);

May 9-11, 1994

*7th Meeting of the EURO Working Group on Locational Analysis, Brussels, Belgium; Information: Prof. F. Plastria, INVE (Research Center for Industrial Location), Vrije Universiteit Brussel, Pleinlaan 2, B-1050 Brussels, Belgium (tel.: +32 2 641 3609 or +32 2 641 3607, fax: +32 2 641 3645, E-mail: FAPLASTR@VUB.AC.BE);

May 17-20, 1994

EWG Meeting on EURO BANKING special interest group, Swindon, UK; Information: Mr. Robert Park, Secretary General, Human Resources and Strategic Development, National Westminster Bank plc, 41, Lothbury, London EC2P 2BP, United Kingdom. Tel.: (44) (71) 72 61 322, fax: (44) (71) 72 61 304.

May 24-27, 1994

*KR'94 4th International Conference on Principles of Knowledge Representation and Reasoning, Wien, Austria; Information: Piero Torasso, Università di Torino, Corso Svizzera 185, I-10149 Torino, Italy (tel.: +39 11 771 2002, E-mail: torasso@di.unito.it);

May 24-28, 1994

*International Workshop on Mathematical Methods and tools in Computer Simulation, St Petersburg, Russia; Information: Sergei Ermakov, Faculty of Mathematics and Mechanics, St Petersburg State University, Bibliotechnaya sq. 2, Petrodvorets, St Petersburg, 198904, Russia (fax: +7 812 428 66 49 or 428 70 39, E-mail: statmod@hq.math.lgu.spb.su)

May 25, 1994

*6th Tartu Conference on Multivariate Statistics and Applications, Tartu, Estonia; Information: University of Tartu, Dept. of Math. Statistics, Tartu EE2400, Estonia (tel.: +37234 306 41, Fax: +37234 354 40, E-mail: etiit@math.ut.ee)

May 26-28, 1994

*15th Meeting of the EURO Working Group on Financial Modelling, Rotterdam, The Netherlands; Information: Prof. Jaap Spronk, Erasmus University Rotterdam, Dept. of Finance, P. O. Box 1738 NL-3000 DR Rotterdam, The Netherlands (tel.: +31 10 408 1285, fax: +31 10 452 3699);

May 30-31, 1994

*2nd European conference on Information Systems, Breukelen, The Netherlands; Information: Walter Baets, Nijenrode University, The Netherlands Business School, Straatweg 25, NL-3621 BG Breukelen, The Netherlands (tel.: +31 3462 91275, fax: +31 3462 91250);

May 30-June 1, 1994

*CORS 1994 & Optimization Days, Montréal, Canada; Information: Gilbert Laporte, Programme Chairman, Centre for Research on Transportation, Université de Montréal, P.O. Box 6128, Station A, Montréal, Canada (tel.: +514 343 6143, fax: +514 343 7121);

May 30 - June 3, 1994

*26ème congrès national d'analyse numérique, Les Karellis, France; Information: SMAI, Institut Henri Poincaré, 11 rue Pierre et Marie Curie, F-75231 Paris, France;

June 1-3, 1994

*International Conference on Multi-Objective and Goal Programming, Portsmouth, UK; Information: M. Tamiz, School of Mathematical Studies, University of Portsmouth, Mercantile House, Portsmouth, Hants PO1 2EG, UK (tel.: +44 705 843 110, fax: +44 705 823 504, E-mail: Tamizm@uk.ac.port.cv);

June 5-10, 1994

*5th Valencia International Meeting on Bayesian Statistics, Alicante, Spain; Information: Prof. José M. Bernardo, Centro de Documentación y Análisis, Presidencia de la Generalidad, Caballeros 9, E-46001 Valencia, Spain (tel.: +34 6 3866138, fax: +34 6 3863626);

June 6-10, 1994

*CAISE'94, 6th Conference on Advanced Information Systems Engineering, Utrecht, The Netherlands;

Information: Gerard M. Wijers, SW Engineering Res. Centre, P.O. Box 424, NL-3500 AK Utrecht, The Netherlands (tel.: +31 30 545 412, fax: +31 30 545 948, E-mail: gwijers@serc.nl);

June 12-15, 1994

*14th International Symposium on Forecasting, Stockholm, Sweden; Information: Sune Karlsson, Dept. of Economic Statistics, Stockholm School of Economics, P.O. Box 6501, S-11383 Stockholm, Sweden (fax: +46 8 30 21 15, E-mail: ISF94@HHS.SE)

June 12-15, 1994

*TIMS XXXII Meeting on Natural Resources, Economic Development and the Environment: The Role of Management Science, Anchorage, Alaska; Information: TIMS XXXII - Anchorage, The Institute of Management Sciences, 290 Westminster Street, Providence, RI 02903 USA (tel.: +401 274 2525, fax: +401 274 3189);

June 14-17, 1994

*16th International Conference «Information Technology Interfaces», Pula, Croatia; Information: Branka Radic, University Computing Centre, J. Marohnica bb, 41000 Zagreb, Croatia, (tel.: +38 41 518 656, fax: +38 41 518 451, E-mail: ITI@SRCE.HR);

June 14-17, 1994

*BIOSTAT '94 1st Meeting of Researchers in Biometrics, Pula, Croatia; Information: Branka Radic, University Computing Centre, J. Marohnica bb, 41000 Zagreb, Croatia, (tel.: +38 41 518 656, fax: +38 41 518 451, E-mail: ITI@SRCE.HR);

June 15-17, 1994

*11th International Conference on Analysis and Optimization of Systems, Sophia-Antipolis, France; Information: Conference Secretary F. Tapissier, DES94 - INRIA, Rocquencourt, Bureau des Cours et Colloques, B.P. 105, F-78153 Le Chenay Cedex, France (fax: +33 1 39 63 56 38)

June 20-24, 1994

*Interdisciplinary Conference on Neural Modelling, Lyon, France; Information: Mme Claire Rigaud-Bully, AIDRI Bat. 101, Université Claude Bernard, Lyon 1, 43 Bld. du 11 Novembre 1918, F-69622 Villeurbanne Cedex, France (tel.: +72 44 8000 34, fax: 72 44 0573, E-mail: AIDRI@CISM.Univ-Lyon1.France);

June, 21-23, 1994

EVENTS

International Conference on Massively Parallel Processing: Applications and Development, Delft, The Netherlands;
Information: Delft University of Technology, Aula Conference Bureau EUROSIM, PO Box 5020, NL-2600 GA Delft, The Netherlands;

June 22-24, 1994
***IFAC Workshop on Intelligent Manufacturing Systems**, Wien, Austria;
Information: IFORS Secretariat, H. Weilling Secretary, c/o IMSOR bldg. 321, Technical University of Denmark, DK-2800 Lyngby, Denmark (tel. +45 42 88 14 33 / ext 3410, +45 42 88 22 22 / ext 3410, +45 45 93 12 22 / ext3410, fax: +45 42 88 13 97);

June 22-25, 1994
***7th SIAM Conference on Discrete Mathematics**, Albuquerque, New Mexico, USA;
Information: SIAM, 3600 University City Science Center, Philadelphia, PA, USA (E-mail: meetings@siam.org)

June 23-28, 1994
***Triennial Symposium on Transportation Analysis**, Capri, Italy;
Information: Prof. Lucio Bianco, IASI, National Research Council, Viale Manzoni 30, I-00185 Roma, Italy (tel.: +39 6 771 61, fax: +39 6 771 6461, E-mail: BIANCO@IASI.RM.CNR.IT);

June 30-July 3, 1994
***5th Meeting EURO Working Group on Decision Support Systems**, Turku, Finland;
Information: Timo Leino, P.O. Box 110, SF-20521 Turku, Finland (fax: +358 21 6383 451, E-mail: tleino@finabo.abo.fi);

July 1-15, 1994
*** 10th EURO Summer Institute on Combinatorial Optimization**, Jouy-en Josas, France;
Information: Prof. Catherine Roucairol, Univ. Versailles - INRIA, Domaine de Voluceau, BP 105 Rocquencourt, F-78153 Le Chesnay Cedex, France (fax: +33 1 3963 5330);

July 4-6, 1994
*** IFAC Symposium on Identification and System Parameter Estimation**, Lyngby, Denmark;
Information: Prof. R. V. Vidal, IMSOR bldg. 321, Technical University of Denmark, DK-2800 Lyngby, Denmark (tel. +45 42 88 14 33 / ext 3410, +45 42 88 22 22 / ext 3410, +45 45 93 12 22 / ext3410, fax: +45 42 88 13 97);

July 4-8, 1994
***Information Processing and Management of Uncertainty in Knowledge-Based Systems**, Paris, France;
Information: IPMU'94, c/o Bernadette Bouchon-Meunier, LAFORIA-IBP, Université Paris VI, Boîte 169, 4 Place Jussieu, F-75252 Paris Cédex 05, France;

July 4-8, 1994
***VII Congreso Latino-Ibero Americano de Investigacion de Operaciones e Ingenieria de Sistemas**, Santiago, Chile;
Information: Dr. Maximo Bosch, Departamento de Ingenieria Industrial, Universidad de Chile, Casilla 2777, Santiago, Chile (fax: +56 2 689 7896);

July 4-16, 1994
***5th International Summer School on Multiple Criteria Decision Aid**, Chania, Crete, Greece;
Information: Yannis Siskos, Technical University of Crete, Greece (fax: +30 821 64824);

July 11-15, 1994
***System Dynamics Conference**, Stirling, UK;
Information: Claire Monaghan, Department of Management Science, University of Sterling, Stirling FK9 4LA, UK (tel.: +786 467 360, fax: +786 467 359);

July 12-13, 1994
Unicom Seminar on «Responding to Customer Needs in Logistics Planning», London, UK;
Information: Unicom Seminars, Brunel Science Park, Cleveland Road, Uxbridge, Middlesex, UB8 3PH (tel.: +895 256 484, fax: +895 813 095);

July 12-15, 1994
*** 4th International Workshop on Project Management and Scheduling**, Leuven, Belgium;
Information: Prof. Dr. Erik Demeulemeester, Prof. Dr. Willy Herroelen, Katholieke Universiteit Leuven, Department of Applied Economics, Dekenstraat 2, B-3000 Leuven, Belgium (tel.: +32-16-28 57 70 or 28 45 63 or 28 45 59, fax: 32-16-28 57 99, E-mail: fdbaa49@blekul11);

July 19-22, 1994
*** EURO XIII Conference**, Glasgow, UK;
Information: Valerie Belton, Department of Management Science, Strathclyde Business School, University of Strathclyde, Livingstone Tower, 26 Richmond Street, Glasgow G1 1XH, UK (tel.: +41 552 4400, fax: +41 552 6686);

July 23, 1994
EURO Summer Institute Group on

Multicriteria Analysis ESIGMA Meeting, Glasgow, UK;
Information: Valerie Belton, University of Strathclyde, Dept. of Mngt. Science, Strathclyde Business School, Livingstone Tower, 26 Richmond Street, Glasgow G1 1XH, UK (tel.: +41 552 4400, fax: +41 552 6686);

July 25-30, 1994
***6th International Congress on Computational and Applied Mathematics**, Leuven, Belgium;
Information: Prof. F. Broeckx, Universiteit Antwerpen RUCA, Middelheimlaan 1, B-2020 Antwerpen, Belgium (tel.: +32 3 218 07 84, fax: +32 3 218 06 52, E-mail: BROECKX@BANRUC60.Bitnet)

July 25-30, 1994
***4th International Statistical Institute Conference on Teaching Statistics**, Marrakech, Morocco;
Information: Mr. El Ghazali Abdelaziz, Chairman of the Local Organizing Committee, I.N.S.E.A., P.O. Box 6217, Rabat Instituts, Rabat, Morocco, or Prof. Y. Escoufier Chairman of the Programme Committee, Université Montpellier II, Science et Technique du Languedoc, Place E. Bataillon, F-34095 Montpellier Cedex, France;

July 26-28, 1994
*** IFAC Symposium on Transportation Systems: Theory and Applications of Advanced Technology**, Tianjin, China;
Information: IFORS Secretariat, H. Weilling Secretary, c/o IMSOR bldg. 321, Technical University of Denmark, DK-2800 Lyngby, Denmark (tel. +45 42 88 14 33 / ext 3410, +45 42 88 22 22 / ext 3410, +45 45 93 12 22 / ext3410, fax: +45 42 88 13 97);

July 26-29, 1994
*** Association of Asian-Pacific Operational Research Societies Conference on Development in Diversity and Harmony**, Fukuoka, Japan;
Information: APORS'94, Operations Research Society of Japan, Gakkai-Centre Bldg. 4-16, Yayoi 2-chome, Bunkyo-ku, Tokyo 113, Japan;

July 31-August 5, 1994
EWG Meeting on OR Applied to Health Services, Chania, Greece;
Information: Vassilis Moustakis, Institute of Computer Science, Foundation of Research and Technology, Hellas, Greece (tel.: +30 81 22 93 46, fax: +30 81 22 93 42, e-mail: moustaki@cs.forth.gr);

August 1-6, 1994
*** 11th International Conference on Multiple Criteria Decision Making**, Coimbra, Por-

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tugal;

Information: 11th International Conference on MCDM, INESC, Rua Antero de Quental 199, P-3000 Coimbra, Portugal (tel.: +351 39 324 30, fax: +351 39 246 92, E-mail: ximcdm@inescc.pt);

August 15-19, 1994

***15th International Symposium on Mathematical Programming**, Ann Arbor, Michigan, USA;

Information: 15th ISMP, Conferences and Seminars, 541 Thompson Street, Room 112, University of Michigan, Ann Arbor, MI 48109-1360, USA (tel.: +313 764 5305, fax: +313 764 2990, E-mail: xvismpp@um.cc.umich.edu);

August 22-26, 1994

***Conference on Manufacturing in Southern Africa**, Cape Town, South Africa;
Information: Prof. R. Reineke, Dept. of Industrial Engineering University, ZA-7600 Stellenbosch, South Africa (tel.: +21 808 4235, fax: +21 808 4245);

August 24-26, 1994

***7th Symposium on Transportation Systems: Theory and Application of Advanced Technology**, Tianjin, China;
Information: Prof. G. G. He, IFAC/IFORS Symposium TS'94, Institute of Systems Engineering, Tianjin University, Tianjin 300072, P. R. China (fax: +86 22 358 329);

August 30-September 2, 1994

OR 1994 International Conference on Operations Research, Berlin, Germany;
Information: Prof. Dr. R.H. Möhring, Techn. Univ. Berlin, Fachbereich Math., Strasse des 17 Juni 136, D-10623 Berlin, Germany (tel.: +49 30 314 24594-25728, e-mail: or94@math.tu.berlin.de);

September 20-23, 1994

EUFIT'94, Aachen, Germany;
Information: ELITE Foundation, EUFIT'94, Promenade 6, D-52076, Aachen, Germany;

September 27-28, 1994

***Computational methods for transfert of solutes in porous media**, Besançon, France;
Information: M. Di Guglielmo, Laboratoire du calcul scientifique, 16 Route de Gray - La Bouloie, F-25030 Besançon, France (Tel.: +33 81 66 63 14, fax: +33 81 66 64 94);

September 28-30, 1994

***First European Conference on Cognitive Science in Industry**, Luxembourg,;

Information: R. Bisdorf, Centre de Recherche Public - Centre Universitaire, 162a avenue de la faïencerie, L-1511 Luxembourg (tel.: +352 47 02 or +352 44 01 95, fax: +352 47 02 64, E-mail: bisdorff@crpcu.lu)

September 28-30, 1994

***AILOG / AIRO Conference on Networks of Services and Firms, Methods and Technologies**, Santa Margherita Ligure, Italy
Information: AILOG / AIRO Conference Secretariat, DIST, Università di Genova, Via Opera Pia 11A, I-16145 Genova, Italy (tel.: +39 10 353 2982, fax: +39 10 353 2948, E-mail: ailogairo@dist.unige.it);

October 6-7, 1994

40th EWG Meeting on Multicriteria Aid for Decisions, Paris - Bordeaux, France;
Information: Bernard Roy, LAMSADE, Université Paris-Dauphine, Place Maréchal De Lattre de Tassigny, F-75775 Paris Cedex 16, France (tel.: +33 1 44 05 42 88, fax: +33 1 44 05 40 91, e-mail: roy@lamsade.dauphine.fr);

October 9-12, 1994

European Simulation Symposium, Istambul, Turkey;
Information: Philippe Geril, The Society for Computer Simulation, European Simulation Office, Universiteit van Gent, Coupure Links 653, B-9000 Gent, Belgium (tel.: +32 9 233 7790 or +32 59 800 804, fax: +32 9 223 4941.);

October 23-26, 1994

***ORSA/TIMS Joint National Conference, Emphasis: Building bridges between OR/MS theoreticians, practitioners and managers, Theme: Global Manufacturing in the 21st Century**, Detroit, Michigan, USA;
Information: K. R. Chelst, Industrial and Manufacturing Engrng., Engineering Building, Wayne State University, Detroit, MI 48202, USA (tel.: (313) 577-3857, fax: (313) 577-8833, E-mail: chelst@mie.eng.wayne.edu)

December 1994

***2nd International Meeting on Systems Thinking, Innovation, Quality and Entrepreneurship**, Maribor, Slovenia;
Information: M. Rebernik, EPF, Univerza di Mariboru, 62000 Maribor, Slovenia (tel.: +62 28 261, fax: +62 27 056);

March 16-17 or 23-24, 1995

41th EWG Meeting on Multicriteria Aid for Decisions, Lausanne, Switzerland;
Information: Bernard Roy, LAMSADE, Université Paris-Dauphine, Place Maréchal De Lattre de Tassigny, F-75775 Paris Cedex 16, France (tel.: +33 1 44 05 42

88, fax: +33 1 44 05 40 91, e-mail: roy@lamsade.dauphine.fr);

March 20-24, 1995

***4th IEEE International Conference on Fuzzy Systems and 2nd International Fuzzy Engineering Symposium**, Yokohama, Japan;
Information: Mieko Hemmi (Ms), LIFE, Siber Hegner Building 4FL 89-1 Yamashita-cho, Naka-ku, Yokohama, 231, Japan (tel.: +81 45 212 8268, fax: +81 45 212 8255);

April 4-7, 1995

International Conference on Industrial Engineering and Production Management, Marrakech, Morocco;
Information: Mrs. D. Raulier, FuCaM, Chaussée de Binche, 151, B-7000 Mons, Belgium, (tel.: +32 65 32 32 17, fax: +32 65 31 56 91);

April 18-29, 1995

*** 11th EURO Summer Institute on Maintenance Replacement and Reliability Modelling**, UK;
Information: Prof. A. H. Christer, University of Salford, Salford M5 4 WT, UK (fax: +61 7 455 999);

April 19-21, 1995

2nd International Conference on Mathematical Modelling, Manchester, UK;
Information: Prof. A. H. Christer, University of Salford, Salford M5 4 WT, UK (fax: +61 7 455 999);

July 3-6, 1995

*** EURO XIV Conference '95**, Jerusalem, Israel;
Information: Prof. Zilla. Sinuany-Stern c/o Ortra Ltd. P.O. Box 50432, Tel-Aviv 61500, Israel (tel.: +972 3 664825, fax: +972 3 660952, email: euro14@bgumail.bgu.ac.il);

August 15-17, 1995

***6th International Conference of the Chinese Special Interest Group on MCDM**, Beijing, PR China;
Information: Ku Chi-fa, Institute of Systems Science, Beijing, PR China (fax: +861 256 8364);

October, 5-6 or 12-13, 1995

42th EWG Meeting on Multicriteria Aid for Decisions, Brussels, Belgium;
Information: Bernard Roy, LAMSADE, Université Paris-Dauphine, Place Maréchal De Lattre de Tassigny, F-75775 Paris Cedex 16, France (tel.: +33 1 44 05 42 88, fax: +33 1 44 05 40 91, e-mail: roy@lamsade.dauphine.fr);

July, 1996

***IFORS XIV**, Vancouver, Canada;
Information: Ifors Secretariat.



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