EURO PhD SCHOOL on MCDM

Multiple Criteria Decision Making - Methodologies and Applications to the Sustainable Development Goals







Practical information

- ► Web page: http://eventos.uma.es/go/EUROPhD2024
- Dates: November 4 15, 2024
- Location: Facultad de Comercio y Gestión, Universidad de Malaga Campus de Teatinos. 29071, Malaga (Spain)
- ► Application deadline: July 17, 2024
- ► Notification of acceptance: September 13, 2024
- Maximum number of participants: 30
- ► ECTS Credits: $3 \rightarrow 75$ hours
- Classes: 2-3 hours/day; Supervised training: 2-3 hours/day; Personal work: 2.5 hours/day
- ► An activity of the PhD Programme in Economics and Business, University of Malaga (Spain)

Organizing Committee

- ► Chair: FRANCISCO RUIZ
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Scientific Committee

- ► AMELIA MARÍA BILBAO. Co-chair. (University of Oviedo, Spain)
- ► ANTONIO JIMÉNEZ. Co-chair. (Technical University of Madrid, Spain)
- ► ALESSIO ISHIZAKA (University of Portsmouth, UK)
- ► AMPARO MÁRMOL (University of Sevilla, Spain)
- ► KAISA MIETTINEN (University of Jyväskylä, Finland)
- ► JOSÉ MARÍA MORENO (University of Zaragoza, Spain)
- ► FRANCISCO RUIZ (University of Málaga, Spain)
- ► BEGOÑA VITORIANO (University Complutense of Madrid, Spain)

Contents

The aim of the PhD School is to introduce students in discrete and continous Multiple Criteria Decision Making problems and their applications. To this end, contents are as follows:

- 1. Basic Concepts on Multiple Criteria Decision Making
- 2. Discrete Multicriteria methods: MAUT, AHP and outranking methods
- 3. Group Decision Making
- 4. Continuous problems: generating the efficient set
- 5. Goal Programming
- 6. Interactive methods

Provisional timetable

- Classes: 9:30h 11:30h
- Supervised training: 12:00h 13:30h & 15:00h 16:30h
- Personal work: 16:30h 19:30h

Week 1 - Discrete MCDM methods		
Day 1	Opening session.Introduction to MCDM problems	
Day 2	Analytic Hierarchy Process	
Day 3	, · · · · · · · · · · · · · · · · · · ·	
Day 4	Outranking methods	
Day 5	Posters Session	

Week 2 - Continuous MCDM methods		
Day 1	Efficiency analysis	
Day 2	Goal Programming	
Day 3	Reference point and interactive Methods	
Day 4	Caseworks	
Day 5	Presentations of discrete and continuous caseworks	

Methodology

- Students will work in groups.
- ► Two different problems (caseworks) will be assigned to each group on Day 1.
- ➤ Students will work on the assigned problems throughout the course, following each day this scheme:
 - 2-3 hours of theoretical classes where new concepts and methods are introduced,
 - 2-3 hours of supervised training in a computing classroom,
 - 2.5 hours of personal work.
- ► The problems will belong to different fields, especially focused on sustainability problems.

Instructors

- ► LAURA DELGADO ANTEQUERA University of Malaga, Spain
- ► SAMIRA EL GIBARI BEN SAID University of Malaga, Spain
- GABRIELA FERNÁNDEZ BARBERIS University San Pablo CEU, Spain.
- SANDRA GONZALEZ GALLARDO University of Malaga, Spain
- ALESSIO ISHIZAKA University of Portsmouth, UK
- ANTONIO JIMÉNEZ Technical University of Madrid, Spain
- DYLAN JONES University of Portsmouth, UK
- KAISA MIETTINEN University of Jyväskylä, Finland
- ► JOSÉ MARÍA MORENO University of Zaragoza, Spain
- ► FRANCISCO RUIZ University of Malaga, Spain

Terms & conditions

- 1. Admission: To apply to the EPS, candidates from a EURO member society country, or studying in a EURO member society country, should submit the following information to rua@uma.es:
 - curriculum vitae (including their academic track record)
 - a letter outlining their motivation to attend
- a letter of recommendation from their supervisor
- 2. Financial arrangements: Registration fee → 200 €
 - All living costs (accommodation, meals, and travel within school activities) are supported by the EPS. No insurance will cover the participants
 - Travel costs should be covered by the participants
- 3. Accomodation:
 - Accommodation is provided in Albergue Inturjoven Málaga (Address: Plaza Pío XII, 6, 29007 Málaga)
- 4. Social activities:
 - Activities such as meals, tourist visits etc. will be organised for the participants (free of charge) in order to stimulate friendly relations.

Sponsors

► Theme Net on Multiple Criteria Decision Making (RED2022-134540-T).