

MCDA WORKSHOP PROMETHEE – IMW2014

INTERNATIONAL MCDA WORKSHOP ON PROMETHEE: RESEARCH AND CASE STUDIES

Welcome to the IMW2014 Workshop Program. The VUB in collaboration with the ULB is pleased and proud to welcome you in Brussels for the first international workshop on **Multicriteria Decision Aid (MCDA) with focus on PROMETHEE: Research and Case Studies**.

The aim of the workshop is to bring together researchers and practitioners from all the disciplines that engage with the PROMETHEE methods. The PROMETHEE methods have effectively been functional in many areas of research and several case studies. Globally, in thirty years, several hundreds of scientific papers related to PROMETHEE have been published in scientific journals. The number of practitioners who are applying the PROMETHEE method to operational multiple criteria decision problems, and researchers who are interested in studying in-depth the PROMETHEE method, increases constantly.

Support

This workshop is organized with the support of ORBEL (SOGESCI-B.V.W.B.), the Belgian Society for the promotion of scientific methods of management.

The invited **keynote speakers** for the plenary session are:

Prof. Em. Jean-Pierre Brans, Vrije Universiteit Brussel, Université libre de Bruxelles

Prof. Thierry Marchant, Universiteit Gent

Prof. Yves De Smet, Université libre de Bruxelles

VENUE

Vrije Universiteit Brussel (VUB)

Building D, Promotiezaal D2.01, "Aloïs Gerlo"

Pleinlaan 2, 1050 Brussels, Belgium

DATE

22 January 2014 from 9.00 to 18.00

Evening: Award Event with Cocktail

If you have any questions, you can contact us at:

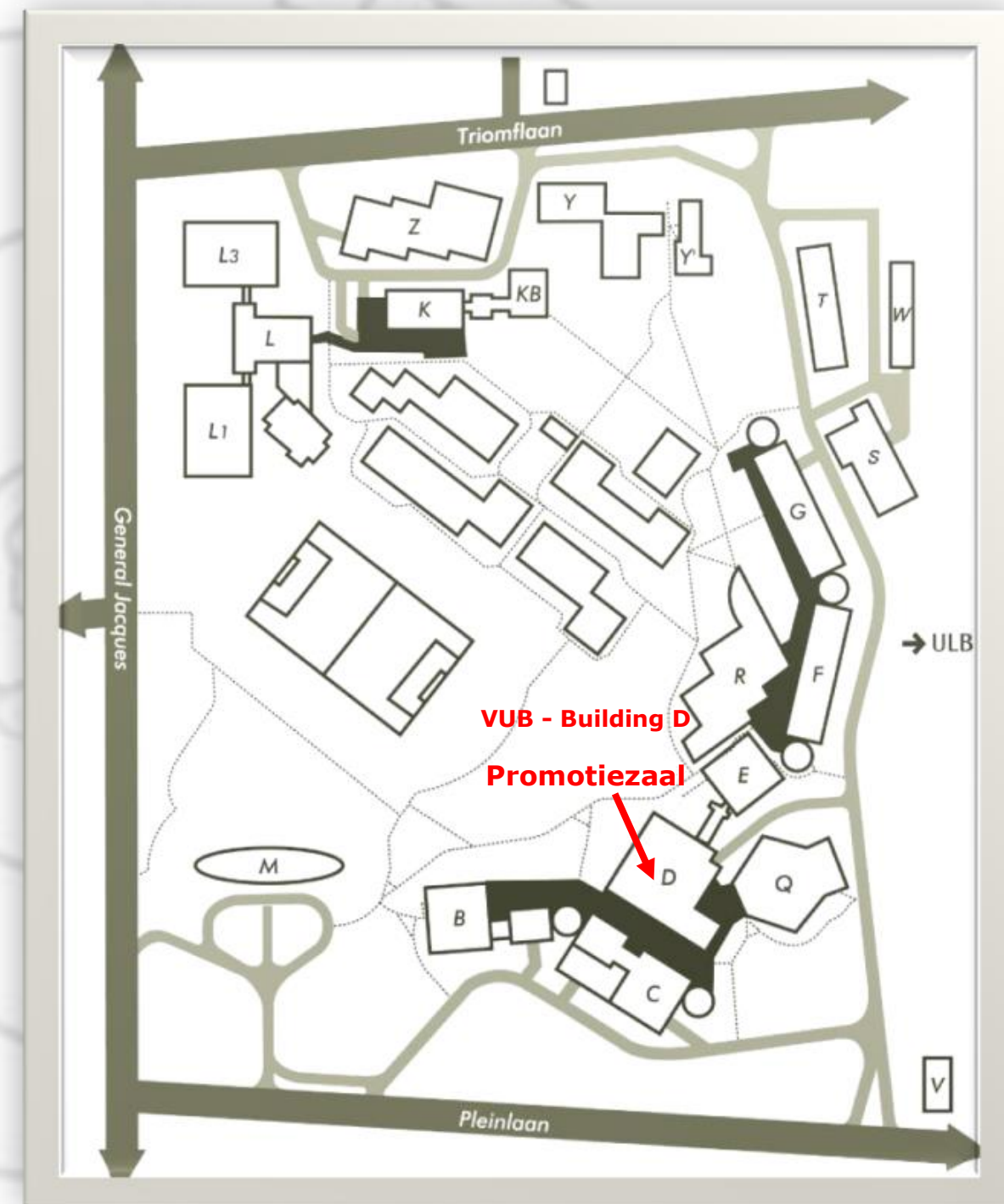
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For more information on the IMW2014, please visit the following link:

<http://cs.ulb.ac.be/conferences/imw2014/>

Each presenter of session A&B has in total 20 minutes including 5 minutes discussion.
Please bring your presentation on a USB flash drive



IMW2014 PROGRAM

8.30 – 9.00

Registration – Coffee at Arrival

9.00 – 9.10

Welcome Speech

Prof. Cathy Macharis

(Vrije Universiteit Brussel) Brussels,
Belgium

9.10 – 10.10

Plenary Session: Chairperson: Bertrand Mareschal

Prof. Em. Jean-Pierre Brans (Vrije Universiteit Brussel/
Université libre de Bruxelles) Brussels, Belgium: *The PROMETHEE Adventure*

Prof. Thierry Marchant (Universiteit Gent) Gent, Belgium: *Axiomatic foundations of PROMETHEE*

Prof. Yves De Smet (Université libre de Bruxelles) Brussels, Belgium: *A summary of recent contributions in the PROMETHEE methods from members of the SMG unit*

10.10 – 10.30

Coffee Break

10.30 – 10.50

Invited speaker: François-Olivier Devaux

**Guiding innovative investments in public transport with the PROMETHEE method
(Société des Transports Intercommunaux de Bruxelles) Brussels, Belgium**

Parallel Sessions A1 & A2

10.50 – 12.30

Parallel Session A1

**PROMETHEE in-depth Methodology
Promotiezaal D2.01, "Aloïs Gerlo"**

Session Chairperson: Gabriela Fernández Barberis

**An extension of the FLOWSORT method for multi-
criteria ordered clustering**

10.50 – 11.10

**Anthony Schmalzried, Yves De Smet (Université
libre de Bruxelles) Brussels, Belgium**

11.10 – 11.30

**Defining new possible weight values in PROMETHEE
VI: a procedure based on Data Envelopment
Analysis**

**Maryam Bagherikahvarin, Yves De Smet
(Université libre de Bruxelles) Brussels, Belgium**

11.30 – 11.50

**Promethee rankings as test of imputed incomplete
multivariate data sets**

**Philippe Van Asbroeck (Université libre de
Bruxelles) Brussels, Belgium**

Parallel Session A2

**PROMETHEE for Transport, Logistics and Urban Mobility
Room D.2.13**

Session Chairperson: Cathy Macharis

Modal choice in freight transport: an MCDA simulation

**Dries Meers, Cathy Macharis (Vrije Universiteit Brussel)
Brussels, Belgium**

**Design safer and greener road projects by using a multi
objective optimization approach**

**Renaud Sarrazin (Belgian Road Research Centre) Wavre,
Belgium**

**Multi Actor Multi Criteria Analysis for sustainable city
distribution: a new assessment framework**

**Lauriane Milan, Cathy Macharis (Vrije Universiteit
Brussel) Brussels, Belgium**

11.50 – 12.10	A comparison of two visualization methods for decision support with PROMETHEE Bastian Schmidtman (Universität Hannover) Hannover, Geneveva Schmidtman (Georg-August-University Göttingen) Göttingen, Germany	Port Investment And MCDA: Contribution Test of the PROMETHEE Method Abdelali Hajbi, Pr Hassan Abbar, Mounime Elkabbouri (University Hassan 1 st) Settat, Morocco
12.10 – 12.30	Determining exact conditions for rank reversal in the PROMETHEE II method Stefan Eppe, Yves De Smet (Université libre de Bruxelles) Brussels, Belgium	Discussion
12.30 – 14.00	Lunch	
Parallel Sessions B1 & B2		
14.00 – 15.40	Parallel Session B1 PROMETHEE Applications: Defence/ Energy Management/Electronics/Sustainable Bioenergy/ Renewable Resources Promotiezaal D2.01, "Aloïs Gerlo" Session Chairperson: Bertrand Mareschal	Parallel Session B2 PROMETHEE Applications: Suppliers management/ Preference learning/Health system/Project Management/Manufacturing/Social Public Welfares Room D.2.13 Session Chairperson: Yves De Smet



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14.00 – 14.20	How to optimize the Spanish participation in peacekeeping operations? A real application of PROMETHEE Methods in the field of National Defense	Purchasing management by using a hybrid multiple criteria approach based on PROMETHEE method
	Gabriela Fernández Barberis (University San Pablo CEU) Madrid, Spain	Concepción Maroto, Dennise Alós, Jordi Cuartero, Salvador Giner, Marina Segura, Baldomero Segura (Universitat Politècnica de València) València, Spain
	Using PROMETHEE for decision support in the extension of low voltage grid systems in Germany	Multi-criteria, multi stakeholder negotiation and decision aid as an innovative approach to managing zoonoses: results from a pilot study on Lyme disease in Canada
14.20 – 14.40	Genoveva Schmidtman, Tobias Lühn, Jutta Geldermann (Georg-August-University Göttingen) Göttingen, Germany	Jean-Philippe Waaub (Université du Québec à Montréal), Montréal, Canada
	Integration of Prospect Theory into PROMETHEE – A case study concerning sustainable bioenergy concepts	The selection of the entry mode in international expansion using MCDA methods belonging to the PROMETHEE family
14.40 – 15.00	Nils Lerche, Jutta Geldermann (Georg-August-University Göttingen), Göttingen, Germany	Dorota Górecka, Małgorzata Szałucka (Nicolaus Copernicus University in Toruń) Toruń, Poland
	Using the PROMETHEE methodology for the design of 3D-stacked integrated circuits	Cartographic Adaptations of the GAIA Visualization Method for Spatial Decision Support
15.00 – 15.20	Nguyen Anh Vu Doan, Dragomir Milojevic, Frederic Robert, Yves De Smet (Université libre de Bruxelles) Brussels, Belgium	Karim Lidouh, Yves De Smet (Université libre de Bruxelles) Brussels, Belgium

15.20 – 15.40	Multicriteria Assessment of the Use of Renewable Resources Meike Schmehl, Jutta Geldermann (Georg-August-University Göttingen) Göttingen, Germany	A social performance indicator for mutual funds based on multi-criteria decision analysis Tim Verheyden (KU Leuven), Lieven De Moor (Vrije Universiteit Brussel) Brussels, Belgium
15.40 – 16.20	Coffee Break Session C	
16.20 – 17.40	PROMETHEE software packages Promotiezaal D2.01, "Aloïs Gerlo" Session Chairperson: Jean-Pierre Brans	
16.20 – 17.00	New developments of the PROMETHEE methods	Bertrand Mareschal (Université libre de Bruxelles) Brussels, Belgium
17.00 – 17.40	Collaborative Decision-Making Platform Based on PROMETHEE MAMCA – Multi-Actor Software application	Quantin Hayez (D-Sight) Brussels, Belgium Annalia Bernardini, Cathy Macharis (Vrije Universiteit Brussel) Brussels, Belgium
17.40 – 18.00	Final IMW2014 Discussions	
18.00 – 19.30	<i>"JEAN–PIERRE BRANS - PROMETHEE AWARD"</i> <i>COCKTAIL EVENT</i>	