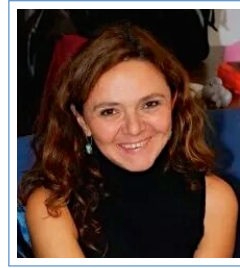


Meltem Öztürk-Escoffier



Associate Professor (Maître de conférences HDR) in Computer Science
Lamsade, UMR 7243, Université Paris Dauphine,
Place Maréchal de Lattre de Tassigny, 75775, Paris, France
ozturk@lamsade.dauphine.fr, +33 1 44 01 44 19
www.lamsade.dauphine.fr/~ozturk

Birth: 23/09/1977 (Istanbul, Turkey), married, two children, Turkish and French citizenships.

Career

- From 2009 **Associate Professor (Maître de conférences, HDR in 2014)**, *Computer Science*, Lamsade (UMR 7243), Université Paris Dauphine.
- 2006–2009 **Associate Professor (Maître de conférences)**, *Computer Science*, GRIL (UMR 8188), Université d'Artois.
- 2004–2006 **Teaching Assistant (ATER) in Computer Science**, *LAMSADE (UMR 7243)*, Université Paris Dauphine.
- 2001–2004 **PhD student with teaching activities (monitrice)**, *LAMSADE (UMR 7243)*, Université Paris Dauphine.

Related experience

- **“Delegation” at CNRS** (Lamsade, 2012-2013).
- **Guest Researcher at CSIR** (Council for Scientific and Industrial Research), South Africa (2006, one month).
- **Guest Researcher at SMG** (Service de Mathématiques de la Gestion), Université Libre de Bruxelles, Belgium (2005, three months).
- **Guest Researcher at DIMACS** (Center for Discrete Mathematics and Theoretical Computer Science)-Rutgers University, USA (2005, two months).

Education

- 2014 **Habilitation à Diriger des Recherches**, Université Paris Dauphine, domain: *Decision Aiding*, title : “Sophisticated preferences for Decision Aiding : from theory to applications”. Coordinator: Alexis Tsoukias, Reviewers: Eyke Hullermeier, Thierry Marchant, David Rios.
- 2005 **PhD in Computer Science**, Université Paris Dauphine, domain: *Decision Aiding*, title : “Mathematical and logical models for interval comparisons”, advisor: Alexis Tsoukias, Reviewers: Patrice Perny, Marc Pirlot, Fred Roberts.
- 2001 **Master’s Degree Méthodes Scientifiques de Gestion, Aide à la Décision**, Université Paris Dauphine.
- 2000 **Engineering Degree in Industrial Engineering**, Galatasaray University, Turkey (ranked first).

Research-Publications

- **Research areas** Decision Aiding, Artificial Intelligence and Operations Research (Multicriteria Decision Aiding, group decision making, preference modeling, preference learning, preference representation, behavioral decision aiding, social choice).
- **Author of articles in international journals and conferences** (*EJOR, MSS, AI, DSS, FSS, AOR, IJIS, ECAI, IJCAI, NMR,...*), see publication list for more details.

Supervisions

- from 2012 **Tom Denat**, (*on-going PhD thesis at l'Université Paris Dauphine*), industrial risk evaluation from environmental point of view (thesis in partnership with Ineris; co-advisor with Denis Bouyssou, research director at CNRS).
- 2010-2013 **Lounes Mameri**, (*PhD thesis at Université Paris Dauphine*), Evaluation of comfort on trains (thesis in partnership (thèse cifre) with SNCF, co-advisor with Denis Bouyssou, research director at CNRS, thesis defended on Septembre 17th 2013, currently consultant in OR at SNCF, see publications 6,7,8,10).
- 2008-2012 **Stéphane Deparis**, (*PhD thesis at Ecole Centrale de Paris*), Experimental analyses for Decision making : perspectives implications of analyzed behaviors (grant from Ecole Centrale de Paris, co-advisor with Vincent Mousseau, Professor at Ecole Centrale de Paris, thesis defended on June 15th 2012, currently researcher at IBM Research Dublin).
- 2013 **Fawzia Azamoum**, (*Master's degree thesis at Université Paris Dauphine*), title: preference modeling with interval representations.
- 2013 **Massissilia Medjkoune**, (*Master's degree thesis at Université Paris Dauphine*), title: Design of multicriteria conflict metric.
- 2012 **Charlotte Thierry**, (*Master's degree thesis at Université Paris Dauphine*), title: modeling comfort for people standing in trains.
- 2010 **Audrey Pfister**, (*Master's degree thesis at Université Paris Dauphine*), title: ranking of purification technics of liquid waste.
- 2007 **Amidou Kpoumi**, (*Master's degree thesis at Université Paris Dauphine*), title: Analysis of call for tenders processus for buying a new TGV.
- 2005 **Abdelkader Kourdi**, (*Master's degree Thesis at Université Paris Dauphine*), title: Preference learning and measurement theory .
- 2004 **Mustapha Sanni**, (*Master's degree Thesis at Université Paris Dauphine*), title: Ordinal case of *PQI* interval orders.

Scientific activities

Program and organizing committees

- **Member of the program committee of IJCAI 2017, IJCAI 2016, IJCAI 2015, IJCAI 2013** (International Joint Conference on Artificial Intelligence)
- **Member of the program committee of ECAI 2014, ECAI 2012, ECAI 2008** (European Conference on Artificial Intelligence)

- **Member of the program committee and of the organizing committee of the “Femmes et hommes en science pour une culture de paix”. colloque 2017** (Université d’Evry)
- **Member of the program committee and of the organizing committee of the “Peace Studies” workshops (2013 and 2015)** (Université Paris Dauphine)
- **Member of the program committee and of the organizing committee of the workshop Decision Deck 2010**
- **Member of the program committee and of the organizing committee of the international summer school MCDM (Multi-Criteria Decision Making), 2010**
- **Member of the organizing committee of LFA 2008** (Rencontres francophones sur la Logique Floue et ses Applications)
- **Member of the organizing committee of the VTPM 2006 workshop** (Voting Theory and Preference Modelling)
- **Member of the organizing committee of the CSDT 2004 workshop** (Computer Science and Decision Theory)
- **Reviewer for journals** (Discrete Applied Mathematics, Journal of the Operational Research Society, Journal of Mathematical Psychology, Annals of Operations Research, European Journal of Operational Research, Fuzzy Sets and Systems, Decision Support Systems, etc.) and **conferences** (ECAI, IJCAI, AAMAS, KR, etc.)

Projects and collaborations

- **Member of the ANR project IRELAND (submitted)** (Interactive Recommendation and ExpLANation for Decision support). Project with 4 laboratories: LGI (engineering, Ecole Centrale de Paris), LIP6 (computer science, Paris 6), LAMSADE (computer and management science, Univ. Paris Dauphine), LTCI (Telecom-ParisTech) plus INERIS
- **Head of the PEPS project AnExCoDE (2009-2010)** (Experimental analysis of decision aiding). Project with 4 laboratories: CRIL (computer science, Univ. d’Artois), LAMSADE (computer and management science, Univ. Paris Dauphine), LGI (engineering, Ecole Centrale de Paris), UniCog (cognitive neuroimaging unit, INSERM, Paris) plus two mathematicians and one economist
- **Member of the ANR project ComSoc (2010-2013)** (Computational Social Choice). Project with 4 laboratories: CRIL (computer science, Univ. d’Artois), LAMSADE (computer and management science, Univ. Paris Dauphine), PREG (econometrics, Ecole Polytechnique), CREME (economics and management, Caen)
- **Member of the project ‘Decision Deck’** - development of open source softwares for decision aiding: <http://www.decision-deck.org/project/>
- **Member of the ANR project PHAC (2005-2009)** (representation, modeling and aggregation of preferences in combinatorial domains). Project with 6 laboratories: CRIL (computer science, Univ. d’Artois), ILOG-SA (company, Val-donne), IRIT (computer science, Toulouse), LAMSADE (computer and management science, Univ. Paris Dauphine), LIP6 (computer science, Univ. Paris 6), ONERA-CERT (aerospatial, Toulouse).

- **Member of the ‘action spécifique’ AS 119 (2003-2005)** (Information and Intelligence : reasoning and decision). Project with 10 laboratories: CEPERC (Epistomologie, Aix-en-Provence), CRIL (computer science, Lens), DSVP (Sociocognitive Dynamics and Political Life, Toulouse), IRIT (computer science, Toulouse), LAMSADE (computer science, Paris), LEIBNIZ (computer science, Grenoble), LIP6 (computer science, Paris), LIRMM (computer science, Montpellier), LPI-GRC (Psychology, Nancy), LTC (pluridisciplinary, Toulouse).

Industrial Projects and collaborations

- **SNCF Project: Nouvelle Ligne Paris-Normandie (since 2016)**, how to make a decision in a multicriteria decision aiding process with uncertainty and a group of decision makers with conflicting interest? (<http://www.lnnp.fr>) (key words: group decision making, conflict management, multicriteria decision aiding)
- **INERIS Project (Thèse CIFR): (since 2012)**, how to evaluate an industrial risk from the environmental point of view? (keywords: decision under uncertainty, group decision making, multicriteria decision making, policy making, preference learning algorithm).
- **SNCF Project (Thèse CIFR): (2010-2013)**, how to evaluate a confort on a train? (keywords: multicriteria decision making, group decision making, experimental analysis, preference learning algorithms).
- **INERIS Project : (2009)**, how to make a hierarchy of toxic substances (keywords: multicriteria decision making, group decision making, preference learning algorithms).
- **Onyme (Startup) Project: (2008-2009)** information processing, client opinion analysis.

Scientific and administrative activities

- **ROADEF (*Société Française de RO/AD*) Board (www.roadef.org)**, responsible of the relation with the industry and other institutions, and of the promotion of RO/AD since 2016
 - organizing days with industrials (for instance, les Pros de RO)
 - organizing days about actualities (for instance, “les algorithmes gouvernent ils le monde?”)
 - organizing master’s degree prize
 - promoting RO/AD (participation to forums, panels, scientific days, ...)
- **Co-head of the “Aide à la Décision” team in LAMSADE** since 2015
- **LAMSADE research center council member**, 2010-2013
- **MIDO department (Mathematics and Computer Science Teaching department) council member** of Université Paris Dauphine, since 2013
- **Council of studies and university life (CEVU) member** of Université Paris Dauphine, 2012-2016
- **Advisory committee for recruitment in Computer Science member** of Université Paris Dauphine 2011-2012
- **Inter-university service for health in Paris member** since 2012

- **Recruiting committees member** of Assistant Professorship positions at Université Paris Dauphine, Université Pierre Marie Curie, Ecole Centrale de Paris, Université d'Artois
- **Recruiting committees member** of researcher at INRIA
- **Responsible of Electre softwares** at Lamsade 2010-2012

———— Educational Management

- **Co-head of the Master's degree (M1+M2) Peace Studies** of Université Paris Dauphine since 2014. Around 30 students both in M1 and in M2 (www.peacestudies.dauphine.fr):
 - design and creation of the master's degree, habilitation dossier for AERES
 - recruiting teaching faculty
 - developing collaboration with Ecole Normale Supérieure Sciences et Lettres
 - management of M1 from 2014 and M2 from 2015
 - creation of joint diploma with Pisa University, Italy
 - request and realisation of funding from PSL (Paris Science Lettre)
 - creation and implementation of series of conferences (and also inaugural conferences) on conflict management and transformation (invitation of nobel prizes, general directors of international organizations, NGO, ...)
- **Head of the Master's degree M2 Business Intelligence *MIAGE Informatique Décisionnelle*** of Université Paris Dauphine 2011-2014 : around 30 students per year
 - management of M2
 - creation of joint diploma with Pisa University, Italy
 - creation of new courses such as big data, data visualisation, non relational data bases
- **In charge of the creation of new teaching programs in Computer Science** at Université Paris Dauphine since 2012
 - **"Master Peace Studies", joint diplomas with Pisa University**, in charge of the all creation procedure
 - **"Certificat data science"**, coordination
- **Co-responsible of education in Computer Science in 2nd year of *Sciences des organisations* (management-economics- social sciences)** (2010- 2013): approximately 700 students, 25 teaching groups

Teaching Experience

I taught as “monitrice” (3 years), “ATER” (one year) and “maître de conférences” (10th year). I was the responsible of the majority of courses. My teaching has been given at different levels (from the first year of “bachelor” to the second year of master and PhD level), in different domains (operations research, decision sciences, programming, data bases, compilation) and for different profiles (computer scientists, management scientists, economists, human and social scientists, people from classical formations but also to professionals).

Master’s Courses Taught

| Year | title of the course | volume |
|------------------------|------------------------------------|---------------|
| <i>Ecole doctorale</i> | Experimental decision aiding | 27 |
| Master 2 -Master 1 | Seminars in conflict management | 40 |
| Master 2 Rch | AI/Decision/Game Theory | 82 |
| Master 2 Appr../pro. | Decision Theory | 190 |
| Master 2 Appr./pro | Decision under uncertainty | 90 |
| Master 2 Rch. | Non Classical Logics | 18 |
| Master 1 | Decision-Indicators | 90 |
| Master 1 | Operations Research | 120 |
| Master 1 | Data Bases | 50 |
| | Sum= | 707 |

Responsible or co-responsible of all the courses presented above.

Bachelor Courses Taught

| Year | title of the course | volume |
|-------------|-----------------------------|---------------|
| Licence 3 | Compilation | 174 |
| Licence 3 | Decision Theory | 240 |
| Licence 3 | Data Bases | 284 |
| Licence 3 | Logistics | 66 |
| Licence 2 | Programming | 282 |
| Licence 2 | Logics-Prolog | 155 |
| Licence 1 | Algorithmics (Java) | 70 |
| Licence 1 | Data Bases | 25 |
| Licence 1 | Introd. to computer science | 102,5 |
| Licence 1 | Introduction to the web | 35 |
| | Sum= | 1433 |

Responsible or co-responsible of all the courses presented above except logics, logistic and java.

Publications and Scientific productions

- **Research Domain** : Decision Making, Artificial Intelligence (multicriteria decision making, preference modeling, preference aggregation, experimental analysis for decision making, social choice).

Articles in refereed international journals

[1.] S. Deparis, V. Mousseau, M. Öztürk, C. Huron .The effect of bi-criteria conflict on matching-elicited preferences, *EJOR*, Volume 242, Issue 3, 1 May 2015, Pages 951-959.

[2.] M. Öztürk , A. Tsoukiàs, A valued Ferrers relation for interval comparison, *Fuzzy Sets and Systems*, Volume 266, 1 May 2015, Pages 47-66.

[3.] S. Deparis, V. Mousseau, M. Öztürk, C. Huron, Ch. Palier . How Conflict Induces the Expression of Incomplete Preferences, *European Journal of Operational Research*, 221(3), pages 593-602, 2012.

[4.] M. Öztürk , M. Pirlot et A. Tsoukiàs, Representing preferences using intervals, *Artificial Intelligence Journal* , 175, pages 1194-1222, 2011

[5.] E. Turunen, M. Öztürk et A. Tsoukiàs, Paraconsistent Semantics for Pavelka Style Fuzzy Sentential Logic, *Fuzzy Sets and Systems* , 161, pages 1926-1940, 2010.

[6.] P. Marquis, M. Öztürk, A. Tsoukiàs, Representing Interval Orders by Weighted Bases: some Complexity Results, *Mathematical Social Sciences*, vol. 57, pages 367-388, 2009.

[7.] M. Öztürk, Ordered sets with interval representation and (m, n)-Ferrers relation, *Annals of Operations Research*, vol. 163, pages 177-196, 2008.

[8.] M. Öztürk, A. Tsoukiàs, Bipolar preference modelling in decision: bilattice approach, *International Journal of Information Technology*, vol. 23, issue 29, pages 970-984, 2008.

[9.] M. Öztürk, A. Tsoukiàs, Modelling positive and negative reasons in decision aiding, *Decision Support Systems*, vol. 43, 1512-1526, 2007

Book chapters

[10.] M. Öztürk, A. Tsoukiàs and S. Guerrand. On the use of a multicriteria decision aiding tool for the evaluation of comfort. In S. Greco, M. Pirlot, and V. Mousseau, editors, *MCDAs Applications*. Springer Verlag, Boston, Dordrecht, London, to appear.

[11.] M. Öztürk, A. Tsoukiàs and Ph. Vincke, Preference Modelling, In J. Figueira, S. Greco, and M. Ehrgott, editors, *Multiple Criteria Decision Analysis: State of the Art Surveys*, pages 27-72. Springer Verlag, Boston, Dordrecht, London, 2005.

[12.] S. Moretti, M. Öztürk and A. Tsoukiàs Preference Modelling, In J. Figueira, S. Greco, and M. Ehrgott, editors, Springer Verlag, 2th edition to appear (it is a revised version of [10.]). *Multiple Criteria Decision Analysis: State of the Art Surveys*,

International refereed conferences proceedings (full papers)

[13.] S. Moretti, M. Öztürk, Ordinal power relations and social rankings. *Workshop on Computational Social Choice (COMSOC-2016)*, 2016

[14.] T. Denat, M. Öztürk, Dominance based Monte Carlo algorithm for preference learning in the multi-criteria sorting problem: Theoretical properties, *DA2PL-2016*, Germany, 2016

[15.] M. Lounes, D. Bouyssou, C. Galais, M. Öztürk, S. Segretain, C. Talotte. Elicitation of decision parameters for thermal comfort on the trains *DA2PL-2012*, Mons, November 15-16, pages 101-107, 2012

[16.] D. Le Berre, P. Marquis, M. Öztürk, Aggregating interval orders by propositional optimization proceedings of ADT 2009, Italy, pages, 249-260, October 20-23 2009.

[17.] B. Escoffier, J. Lang, M. Öztürk, Single-Peaked consistency and its complexity proceedings of ECAI-2008 *ECAI-2008*, Patras, Greece, pages 366-370 July 21-25 2008.

[18.] P. Marquis, M. Öztürk, Representing interval orders by weighed bases: Some complexity results, proceedings of Workshop on Advances in Preference Handling in conjunction with *VLDB-2007*, Vienna Austria, September 23-27 2007.

[19.] M. Öztürk, A. Tsoukiàs, Valued Hesitation in intervals comparison, Proceedings of the *SUM-07* Conference, LNAI 4772, Springer Verlag, Berlin, pages 157-170, 2007

[20.] M. Öztürk, A. Tsoukiàs, Preference representation with 3-points intervals, proceedings of the International Conference *ECAI-2006*, Riva del Garda, Italy, pages 417-421, 2006

[21.] M. Öztürk, A. Tsoukiàs, Aggregating Preferences with Positive and Negative Reasons, Proceedings of the International Workshop on Advances in Preference Handling in conjunction with *ECAI-2006*, Riva del Garda, Italy, pages 102-107, 2006

[22.] M. Öztürk, A. Tsoukiàs, Preference on intervals: a general framework, Proceedings of the International Conference *IJCAI-05*, Multidisciplinary Workshop on Advances in Preference Handling, Edinburg, Scotland, pages 156-161, 2005.

[23.] M. Öztürk, A. Tsoukiàs, Modelling positive and negative reasons in decision aiding, Positive and Negative Reasons in Interval Comparisons: Valued PQI Interval Orders, Proceedings of *IPMU-2004*, pages 983-989, Italy.

[24.] M. Öztürk, A. Tsoukiàs, Modelling continuous positive and negative reasons in decision aiding, Proceedings of *NMR*, pages 321-326, 2004.

[25.] M. Öztürk, A. Tsoukiàs, Modelling positive and negative reasons in decision aiding. In Proceedings of *Mini EURO* Conference, July 4-9 2004.

National refereed conferences proceedings (full papers)

[26.] E. Turunen, M. Öztürk, A. Tsoukiàs, Continuous extension of four values of Belnap, *LFA 2008*, Lens, pages 304-311 France.

[27.] B. Escoffier, J. Lang, M. Öztürk, Quelques aspects algorithmiques du raisonnement sur des préférences unimodales, *RFIA 2008*, Amiens, pages 562-570, France.

International refereed conferences with abstract

[28.] L. Mammeri, C. Galais, M. Öztürk, D. Boussou, C. Talotte A multicriteria decision tool for evaluating the comfort onboard french high speed trains *EURO-2012*, Vilnius, July 8-11, 2012

[29.] L. Mammeri, M. Öztürk, A multicriteria decision tool for evaluating the comfort onboard trains *Decision Deck-2011*, Luxembourg, October 17-18, 2011

[30.] S. Deparis, V. Mousseau, M. Öztürk, Experimental Analysis of Incomplete Preferences *European Mathematical Psychology Group-2010*, Finland, August 29 - September 1, 2010

[31.] M. Öztürk, A. Tsoukiàs, Continuous valuation of interval comparison *OSDA-2007*, Ghent, June 7-9, 2007

[32.] M. Öztürk, A. Tsoukiàs, Interval representation for preference modelling, *37th European Mathematical Psychology Group*, Brest, September 11-13 2006

[33.] M. Öztürk, A. Tsoukiàs, Valued PQI interval orders, 20th Conference of *EURO* (on the theme "OR and the management of electronic services"), Rhodes, Greece, July 4-7 2004.

National refereed conferences with abstract

- [34.] S. Moretti, M. Öztürk, On social rankings and their properties *ROADEF-2016* , Compiègne, France, février 2016
- [35.] A. Djellata M. Öztürk, Une approche multicritère pour la réutilisation des friches en Alger. *ROADEF-2016* , Compiègne, France, février 2016
- [36.] L. Mammeri, C. Gallais, M. Öztürk, C. Talotte, D. Bouyssou : Un outil d'aide multicritère a la decision pour l'évaluation du confort dans les TGV", *ROADEF-2012* , Angers, France, avril 2012
- [37.] A. Kpoumi, M. Öztürk, A. Tsoukiàs, Evaluation du confort client dans les tgv, *ROADEF-2008*, Clermont Ferrand, 25-27 Février, 2008
- [38.] B. Escoffier, J. Lang, M. Öztürk, Comment classer les candidats sur un axe gauche droite?, *ROADEF-2008*, Clermont Ferrand, 25-27 Février, 2008
- [39.] M. Öztürk, A. Tsoukiàs, Modélisation des préférences par des intervalles: nouveaux résultats, *ROADEF-2007* Grenoble, France, 2007.
- [40.] M. Öztürk, A. Tsoukiàs, Modélisation des préférences par des intervalles, *ROADEF-2006* Lille, France, 2006.

Thesis

- M. Öztürk, Préférences sophistiquées pour l'Aide à la Décision, Habilitation à Diriger des Recherche, Université Paris Dauphine, décembre 2014.
- M. Öztürk, Structures mathématiques et logiques pour la comparaison des intervalles, thèse de doctorat, Université Paris Dauphine, décembre 2005.

Choice of four representative publications

- [i.] S. Deparis, V. Mousseau, M. Öztürk . How Conflict Induces the Expression of Incomplete Preferences, *European Journal of Operational Research*, 221(3), pages 593-602, 2012.
- [ii.] M. Öztürk , M. Pirlot et A. Tsoukiàs, Representing preferences using intervals, *Artificial Intelligence Journal* , 175, pages 1194-1222, 2011
- [iii.] P. Marquis, M. Öztürk, A. Tsoukiàs, Representing Interval Orders by Weighted Bases: some Complexity Results, *Mathematical Social Sciences*, vol. 57, pages 367-388, 2009.
- [iv.] E. Turunen, M. Öztürk et A. Tsoukiàs, Paraconsistent Semantics for Pavelka Style Fuzzy Sentential Logic, *Fuzzy Sets and Systems* , 161, pages 1926-1940, 2010.