

### 25th International Conference on Group Decision and Negotiation



School of Business and Economics University of Zaragoza, Spain 15th – 18th June 2025

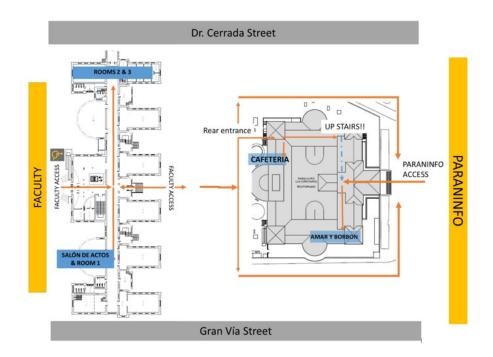
	SUNDAY 15	MONDAY 16	TUESDAY 17	WEDNESDAY 18
08:30-09:00		Registration	Registration	Registration
09:00-09:30 09:30-10:00		Opening Session (Salón de Actos)	SESSION 3	SESSION 5
10:00-10:30 10:30-11:00		Keynote Speaker 1 2025 GDN Section Award (Salón de Actos)	Coffee-Break ( <i>Paraninfo Caf.</i> )	Coffee-Break (Paraninfo Caf.)
11:00-11:30 11:30-12:00 12:00-12:30		Coffee-Break (Amar y Borbón)  Poster Session	Keynote Speaker 2 Luis G. Vargas ( <i>Salón de Actos</i> )	Round Table Al in the future of GDN ( <i>Salón de Actos</i> )
12:30-13:00 13:00-13:30 13:30-14:00		SESSION 1	SESSION 4	Closing Session (Salón de Actos)
14:00-14:30 14:30-15:00 15:00-15:30		Lunch (Room <i>Amar y Borbón</i> )	Lunch (Room <i>Amar y Borbón</i> )	Lunch Paraninfo Cafeteria
15:30-16:00 16:00-16:30		SESSION 2		
16:30-17:00 17:00-17:30 17:30-18:00		Business Meeting (Open to all participants)	Visit to <i>Palacio Aljafería</i> Goya Exposition	
18:00-18:30 18:30-19:00	(Patio de la Infanta)			
19:00-19:30 19:30-20:00 20:00-20:30 20:30-21:00	Visit to <i>Patio de la Infanta</i> Reception Welcome ( <i>Patio de la Infanta</i> )	Visit to the Cathedrals ( <i>La Seo</i> and <i>El Pilar</i> ) and Roman City	Conference Dinner (Room <i>Amar y Borbón</i> )	
21:00-21:30 21:30-22:00			" <i>Jota</i> Show"	

### **Conference Streams:**

- 1. Conflict Resolution
- 2. Negotiation Support Systems and Studies (NS3)
- 3. Preference Modeling for Group Decision and Negotiation
- 4. Collaborative Decision Making
- 6. Intelligent Group Decision Making and Consensus Process
- 7. Risk Evaluation and Negotiation Strategies
- 9. Facilitated decision modeling in the co-design of operations systems
- 11. Artificial Intelligence in Group Decision and Negotiation
- 12. Human, Social, and Artificial Cognition in Group Decision and Negotiation

# Sunday 15 June

	Patio de la Infanta (https://maps.app.goo.gl/5ipToG8uhY8m52Hz5)		
17:00	Doctoral Consortium. Chair: Pascale Zaraté		
	<ul> <li>Shun Ikumi, Gregory Gay and Maiko Sakamoto. Discourse Analysis for Participatory Discussions: A Topic Shift Detection Approach Using Text Mining and Network-Based Analysis</li> </ul>		
	° Hugo Silva, Leandro Rego and Carlos Rodrigues. Optimal preference manipulation in the Graph Model for Conflict Resolution		
	° Mario Chacón-Falcón. Enhancing Adversarial Risk Analysis with Fully Probabilistic Design to Handle Defend-Attack Games		
	° <b>Elton César dos Santos Silva</b> , Danielle Costa Morais and Liping Fang. A Hybrid Preference Structure for the Graph Model for Conflict Resolution: Integrating Strength of Preference and Probabilistic Preference		
19:00	Visit to Patio de la Infanta		
19:30	Welcome reception		



# Monday 16 June

08:30	Registration - School of Business and Economics (https://maps.app.goo.gl/3LCSTgkCBmq8MrxU7)
09:00	Opening Session (Salón de Actos)
	° Ana Yetano (Dean of the School of Business and Economics)
	° Pascale Zaraté (GDN Section Chair)
	° José María Moreno-Jiménez (Conference General Chair)
	° Danielle Costa Morais (Conference General Chair)
10:00	Plenary session. Chair: Liping Fang (Salón de Actos)
	2025 GDN Section Award
11:30	Coffee break + Poster session (Room Amar y Borbón. Paraninfo building)
	° <b>Mei Cai</b> , Yi Zhang and Zaiwu Gong. Online-review analysis based large-scale group decision-making for evaluating customer satisfaction. A quantum-like Bayesian
	° <b>Siwei Li</b> , Jichao Li, Chang Gong, Tianyang Lei, Ping Jiang and Shuaiwen Tang. <i>Locating the source of diffusion in the early stage utilizing network monitors and graph convolutional networks</i>
	° Sining Han, Bingfeng Ge, Tianyang Gu, Tianjiao Yang, Yuming Huang and Zeqiang Hou. The Matrix Completion method for the Graph Model of Conflict Resolution with Incomplete Fuzzy Preferences
	° José Luis Gallizo, Jordi Moreno and Laura Sánchez. The Green Dividend: How Family Ownership Drives Carbon Reduction and Profitability
	° He Wang, Bingfeng Ge, Tianjiao Yang, Zeqiang Hou, Wanying Wei and Jianghan Zhu. A Lifecycle-Enhanced Time Sensitive Graph Model for Conflict Resolution with Application to Technology Competition of Great Powers
	° Madoka Chosokabe. Evaluating ChatGPT's Effectiveness in Group Discussions: Insights from Experimental Studies
	<ul> <li>María Jesús Rufo Bazaga, Jacinto Martín Jiménez and Carmen Ortiz Caraballo. A Decision-based approach to select a preventive program based on a fixed Budget</li> </ul>
	° <b>Antonio Jiménez-Martín</b> and Alberto Gómez-Jiménez. <i>A web-based decision support system based on an additive multiattribute utility function to deal with partial information in a multidisciplinary context</i>
	° Alfredo Altuzarra, <b>Pilar Gargallo</b> , José María Moreno-Jiménez and Manuel Salvador. <i>Bayesian identification of homogeneous groups of actors in a large-scale hierarchical AHP context</i>
	° Victoria Muerza, María Teresa Escobar and José María Moreno-Jiménez. Collaborative improvement of Primary Health Centers
	° <b>Alberto Turón</b> , Jorge Navarro, Juan Aguarón and José María Moreno-Jiménez. Social network leaders' identification using sentiment analysis during the Covid-19 vaccination process in Spain
	<ul> <li>Mizuki Kobayashi, Sinndy Dayana Rico Lugo, Pierre-Emmanuel Arduin, Doudja Saïdi-Kabeche and Nariaki Nishino. Mathematical Insights into Food Bank Allocation: A Case Study of France</li> </ul>

12:30	Session 1 (S1)		
	S1_R1: GDN Best student paper candidates	S1_R2: Stream 7	S1_R3: Stream 6 + Stream 4
	Chair: Masahide Horita	Chair: Shinan Zhao	Chair: Zhen Zhang
	(Room 1)	(Room 2)	(Room 3)
	#2. <b>Felix Kröcher</b> , Peter Kesting and Remigiusz	#14. <b>Alejandro Balbás</b> , Beatriz Balbás and	#54. <b>Yuan Gao</b> , Zhen Zhang and Lijun Sun.
	Smolinski. Reconsidering the SINS II scale:	Raquel Balbás. Optimal comonotonic actuarial	Preference learning for multi-view multi-criteria
	Exploring its limitations and requirements for	risk redistribution	sorting
	future research designs		
	#32. <b>Dawei He</b> , Qingye Han, Weitong Cheng	#16. Colin Eden. Experiences in the Adoption of	#63. Tao Wen, Ting Wu and <b>Yu-Wang Chen</b> . A
	and Ginger Y Ke. The Brownfield Devaluation	a GSS for Systemic Risk Assessment and	Framework for Characterising Decision Making
	Rules Cased by Stigma By Using the	Management	in Social Networks
	Dominance-based Rough Set Approach		
	#51. Elton César dos Santos Silva, Danielle	#23. <b>Shinan Zhao</b> and Xin Li. <i>Egoistic, Altruistic,</i>	#66. <b>Carlos Sáenz-Royo</b> , Jorge Fleta-Asín,
	Costa Morais and Liping Fang. Strength of	and Reciprocal Behaviors of Decision-Makers in	Fernando Muñoz-Sánchez and Francisco
	Preference and Probabilistic Preference in the	Graph Model for Conflict Resolution	Chiclana. Competition between human
	Graph Model for Conflict Resolution for Two		judgment and AI in strategic decisions
	Decision-Makers		
	#80. <b>Ayato Kitadai</b> , Ryuichiro Ishikawa, Sangjic	#24. <b>Lu Chen</b> , Jing Tan and Zhichao Zhang.	#69. <b>Rodion lurev</b> , Víctor Temprano-García,
	Lee, Jianyong Teng, Kohei Nishiyama and	Large-scale group conflict resolution under	María de Haro González and José Luis García-
	Nariaki Nishino. Consensus Formation in	fuzzy power asymmetry	Lapresta. Managing Perceptions in Qualitative
	Physical, Virtual, and Interverse Spaces:		Scales: A Visual Procedure Applied to Nutri-
	Experimental Insights		Score
	#83. <b>Hugo Silva</b> , Leandro Rego and Carlos	#36. <b>Huan Song</b> , Yuanjing Zhu, Shawei He,	#50. Andrej Bregar. Application of
	Rodrigues. Integer linear optimization models	Jixiang Zhang, Ziyi Zhao, Ting Zhu and Ying	Collaborative Methodologies for Cybersecurity
	for solving the transitive preference	Wang. Analyzing license plates conflict	
	manipulation problem in bilateral conflicts	between Kosovo and Serbia using GMCR under	
	within the GMCR	uncertainty	
14:00		<b>Lunch</b> (Room <i>Amar y Borbón</i> . Paraninfo building)	

15:30	Session 2 (S2)		
	S2_R1: GDN Best paper candidates	S2_R2: Stream 7	S2_R3: Stream 4
	Chair: Masahide Horita	Chair: Shawei He	Chair: Pascale Zaraté
	(Room 1)	(Room 2)	(Room 3)
	#5. Gustavo Santos-García and Jcr Alcantud.	#21. <b>Ginger Ke</b> and Reihaneh Mahdavinia.	#22. Fran Ackermann, John Bryson and Colin
	The approbatory social welfare function: First	Reducing Hazmat Risks: Interactive Network	Eden. Developing Multi-organizational
	results	Design with Location Decisions	Collective Strategy: Issues in Using a GSS
	#17. <b>Roman Slowinski</b> and Salvatore Greco.  Multiple Criteria Group Decision Aiding in  Seven-valued Logic	#33. Qingye Han, <b>Weitong Cheng</b> , Dawei He and Ginger Y. Ke. <i>The stigma effect of brownfields: A quantitative study based on real cases in China</i>	#44. <b>Pavel Chebotarev</b> . Evolution of Society Caused by Collective Decisions: A ViSE Model Study
	#19. <b>Kai Xu</b> , Yu Maemura and Kazumasa Ozawa. <i>Balancing Affordability and Profitability</i> in Urban Public Transport: Implications from Singapore and Hong Kong	#37. Ting Zhu, Shawei He, Binran Ji, Huan Song and Ying Wang. Sentiment-Driven Decision Strategies for Optimizing Airline Live-Streaming Interactions	#49. <b>Bilal En-Nouaary</b> , Nadine Kafa and Aziz Hmioui. <i>Renewable Energy Project Selection in</i> <i>Morocco: A VAHP-Based Decision Support</i> <i>Model</i>
	#74. <b>Jinmuzi Zhang</b> , Haiyan Xu, Lu Chen and Witold Pedrycz. <i>Optimal Mediation of Largescale Group Graph Model for Conflict Resolution</i>	#42. <b>Yeqing Guan</b> and Ying Cao. <i>Credit Risk</i> Assessment of Supply Chain Finance for New Energy Vehicle Enterprises Based on Social Network Analysis Model	#57. <b>Fran Ackermann</b> . Crafting collaborative policy: using a GSS to facilitate engagement
	#75. <b>Qingyun Wang</b> and Haiyan Xu. <i>The</i> Mediation Strategy for Conflict Resolution with	#76. Jiahong Zhao, Ziqi Ke, Xiaojie Pan, Longfei Zhang and <b>Ginger Ke</b> . <i>A Time-Dependent Risk</i>	#86. <b>Mateus Müller Franco</b> , Rôlin Gabriel Rasoanaivo, Maísa Mendonça Silva and Pascale
	Fairness Concern: A Stackelberg and	Assessment Model for Transporting Biological	Zaraté. Group Multicriteria Decision Making: a
	Bargaining Game Approach	Products with Drone in the Low-Altitude Transportation System	case study for safety public policy
17:00	GDN Business meeting (Room 1) Open to all par		•
19:00	Visit to the Cathedrals (La Seo and El Pilar) and Roman City. Meeting point: La Seo (https://maps.app.goo.gl/TxBUpQWxYauN8q718)		

# Tuesday 17 June

08:30	Registration - School of Business and Economics (https://maps.app.goo.gl/3LCSTgkCBmq8MrxU7)			
09:00	Session 3 (S3)			
	S3_R1: Stream 1 & 12	S3_R2: Stream 3	S3_R3: Stream 11 + Stream 7	
	Chair: Ginger Ke	Chair: Danielle Costa Morais	Chair: Muhammed-Fatih Kaya	
	(Room 1)	(Room 2)	(Room 3)	
	#1. <b>Tianyang Gu</b> , Bingfeng Ge, Wanying Wei,	#3. Pedro Henrique Gouveia de Souza, Nathália	#34. Viviana Mariella Oberhofer, Isabella	
	Sining Han, Zihui Liu and Chi Wang. <i>Triangular</i>	Jucá Monteiro, Sérgio Eduardo Gouvea da Costa	Seeber and Lena Waizenegger. Personality	
	Fuzzy Preferences in the Graph Model with Two	and <b>Eduarda Asfora Frej</b> . Selection of Digital	Design of Social Robots: The Mediating Role of	
	Decision-Makers	Technologies for Energy Management: a Group	Anthropomorphism and Empathy in Fostering	
		Decision approach based on PROMETHEE-ROC	User Satisfaction	
	#26. Giannini I. A. Vieira and <b>Leandro C. Rego</b> .	#4. <b>Sebastian Lakmayer</b> and Mats Danielson.	#65. <b>Tung Bui</b> . A framework for effective	
	Introducing Berge Coalition Stabilities in the	Stability of Surrogate MCDA Weights under	distributed AI-driven telemedicine: Group	
	Graph Model	Different Assumptions on Value Distributions	decision and negotiation perspectives	
	#30. Felix Kröcher, Peter Kesting and	#7. <b>José Carlos R. Alcantud</b> . <i>Ranking</i>	#82. <b>Jing Jin</b> . Al-Powered Insights: Navigating	
	Remigiusz Smolinski. Beyond rationality:	opportunity sets from preference-approval	Negotiation Dynamics through Prompt	
	Exploring non-rational factors in the application	structures on options: characterizations	Engineering	
	of ethically ambiguous negotiation tactics			
	#70. <b>Tianjiao Yang</b> , Bingfeng Ge, Zeqiang Hou,	#29. Maud Thermes, <b>Irène Abi-Zeid</b> , Franck	#64. <b>Ulkar Garajali</b> . Shifting Strategies:	
	Wanying Wei, Ping Jiang and Hang Yang.	Taillandier, Arnaud Sentis and Nathalie Niquil.	Communication Patterns in Electronic	
	Strategic Interactions among Stakeholders in	Multicriteria decision aiding for a more	Negotiations and Their Impact on Outcomes	
	Carbon Governance: A Game-theoretic	sustainable human/beluga cohabitation in		
	Dynamic Analysis of Collusion Risk	Quebec, Canada		
	#11. <b>Hang Yang</b> , Bingfeng Ge, Ping Jiang, Renjie	#53. <b>Juuso Pajasmaa</b> , Bhupinder Singh Saini,	#71. Yangzi Jiang and Xiaoxu Lu. Construction	
	Xu, Kewei Yang and Jichao Li. Research on	Babooshka Shavazipour, Francisco Ruiz, Kaisa	of Physician Screening and Evaluation Metrics	
	resilience-oriented disintegration in system-of-	Miettinen and Rudolf Vetschera. Group decision	for Online Consultation Platforms Based on	
	system	making in forest management with interactive	Multi-Source Data-Driven Approaches	
		multiobjective optimization		
10:30		Coffee break (Paraninfo cafeteria)		
11:00	Plenary session. Chair: José María Moreno-Jimé	,		
	Keynote Speaker: Luis G. Vargas. Cognitive Artific	cial Intelligence in Conflict Resolution		

12:30	Session 4 (S4)		
	S4_R1: Stream 1	S4_R2: Stream 3	S4_R3: Panel session
	Chair: Marc Kilgour	Chair: Eduarda Asfora Frej	Chair: R. Smolinski
	(Room 1)	(Room 2)	(Room 3)
	#55. Nannan Wu, Ruyi Huang, Ming Situ and	#62. <b>Sinndy Dayana Rico Lugo</b> , Ryuichiro	Panel session: Definition and measurement of
	Dayong Wang. The Graph Model for Conflict	Ishikawa and Nariaki Nishino. <i>Indifferent</i>	negotiation performance
	Resolution with Preference-approval Structures	Preference in Collective Decision-Making:	
		Analysis of Voting Rules in Circular Economy	
	#38. Muhammad Tajammal Khan and	#73. Lucia Reis Peixoto Roselli, Adiel Teixeira de	
	Masahide Horita. A Group Support System for	Almeida, Gabriel Herminio de Andrade Lima,	
	Resolving Variation Disputes in Tunnel	Ana Paula Cabral Seixas Costa, <b>Danielle Costa</b>	
	Construction Projects	Morais and Luciana Hazin Alencar. Key	
		Objectives for Science, Technology and	
		Innovation based on a Group Decision Process	
	#13. <b>Leandro C. Rego</b> and Marc Kilgour. <i>Pareto</i>	#85. Gabriel Ensinas Valiño Pedreira, Regiane	
	Coalition Maximin and Credible Maximin	Máximo Siqueira, João Batista Sarmento dos	
	Stabilities	Santos Neto and Carolina Lino Martins.	
		Multicriteria Analysis of Cattle Welfare: A	
		Literature Review	
	#27. Thalita Silva and <b>Leandro C. Rego</b> .	#87. Maria Luísa Mello, Kassia Rodrigues, João	
	Limited-Move Stability with Probabilistic	Batista Sarmento dos Santos Neto and	
	Preferences	Carolina Lino Martins. A Structured	
		Multicriteria Group Decision-Making Model to	
		Support the Brazilian Agrarian Reform Program	
	#45. <b>Ziming Zhu</b> , Marc Kilgour and Keith Hipel.	#88. <b>Eduarda Asfora Frej</b> , Tomasz Wachowicz	
	Redefining Sequential Stability for Multi-	and Marek Czekajski. Handling synergies in	
	decision-maker Conflict within Graph Model	Multiple Criteria Behavioural Group Decision	
		Aiding protocol for selecting post-industrial	
		cultural tourism product	
14:00		<b>Lunch</b> (Room <i>Amar y Borbón</i> . Paraninfo building)	
16:30	Visit to Palacio Aljafería and Goya Exposition (https://maps.app.goo.gl/1qHQipgNHVvyKDu29)		
19:30	Conference Dinner and "Jota Show" (Room Amar y Borbón. Paraninfo building: https://maps.app.goo.gl/aQWjmDTPUtwfDpX88)		

# Wednesday 18 June

08:30	:30 Registration - School of Business and Economics (https://maps.app.goo.gl/3LCSTgkCBmq8MrxU7)		
09:00	Session 5 (S5)		
	S5_R1: Stream 1	S5_R2: Stream 2	S5_R3: Stream 9 + Stream 12
	Chair: Liping Fang	Chair: Muhammed-Fatih Kaya	Chair: Gilberto Montibeller
	(Room 1)	(Room 2)	(Room 3)
	#31. Marc Kilgour and <b>Rudolf Vetschera</b> .	#8. <b>Rustam Vahidov</b> , Real Carbonneau and	#15. Milena Janjevic, Gilberto Montibeller and
	Strategic play in fair division problems with	Jaipriya Verma. Combining preference and large	Jarrod Goentzel. Facilitated Modeling in Pharma
	cardinal valuations	language models in human - machine negotiations: an experimental study	Supply Chain Co-Design: An Exploratory Study
	#59. Larissa Lobo and <b>Liping Fang</b> . <i>Multi-</i>	#18. Tomasz Wachowicz and <b>Ewa Roszkowska</b> .	#25. Luis Alberto Franco and Etiënne A. J. A.
	criteria Evaluation of Energy Solutions for	Evaluating the eNego System: A Dual	Rouwette. Facilitated modelling revisited: Some
	Canadian Northern Communities	Perspective on Sub-jective Acceptation and	testable propositions
		Objective Scoring System Accuracy	
	#60. Feze Golshani and Liping Fang. A Multi-	#39. Max Balle, Marlene Meyer and Mareike	#52. <b>Rania Beniaich</b> , Nadine Kafa and Aziz
	Agent Simulator for Fire Evacuation: Exit	Schoop. AI-Based Negotiation Style Training	Hmioui. Towards a Sustainable Renewable
	Selection Modeling and Safety Assessment		Energy Supply Chain: A Green Value Stream
	Indices		Mapping Approach
	#67. <b>Dmitry Gimon</b> and Alexandre Leoneti. <i>On</i>	#46. Marc Kilgour, Steven Brams and Christian	#40. Pierre-Emmanuel Arduin and Benjamin
	quantifying the conflict in 2x2 games	Klamler. Two-Person Allocation of Divisible and	Costé. Hack Us If You Can: Individual and Group
		Indivisible Goods: Envy-Free, Pareto-Optimal	Cognition Through the Gamification of
		and/or Equitable?	Cybersecurity Courses
	#90. Sapir Handelman. Solution-Focused	#91. <b>Muhammed-Fatih Kaya</b> and Mareike	#41. Maren Suffel, Ayşegül Engin and Rudolf
	Negotiation: Smart mind: Rational calculations,	Schoop. Self-trained AI or Pre-trained AI? – A	Vetschera. Do you forgive your algorithm? The
	Emotional considerations & beyond	Systematic Comparison of Deep Learning-	impact of self-confidence, perceived accuracy,
		based Language Models in Digital Negotiations	and trust on the use of decision support advice
10:30		Coffee break (Paraninfo cafeteria)	

11:00	Plenary session. Chair: Pascale Zaraté (Salón de Actos)	
	Round Table: Artificial Intelligence in the future of GDN	
	° Liping Fang	
	° Marc Kilgour	
	° Roman Slowinski	
	° Luis G. Vargas	
12:30	Closing session (Salón de Actos)	
	Danielle Morais, José María Moreno (Conference General Chairs)	
	GDN 2026 - Organization announcement – Pascale Zaraté	
13:30	Lunch (Paraninfo cafeteria)	