**Project Title**: 29th International Conference on Logic Programming (ICLP 2013)

**Name of the PI**: Esra Erdem

**Cooperating Programs on Project**: CS

**Other Personnel Cooperating on Project**

**Amount of Funds Granted**: 7500 TL

Since the first conference held in Marseille in 1982, ICLP has been the premier international conference for presenting research in logic programming, and is the sole conference supported by the Association for Logic Programming (ALP). ICLP 2013 was the 29th conference in the series.

ICLP 2013 took place at Armada Hotel, İstanbul, during 24–29 August 2013. The conference was co-located with 5 workshops:

- 6th Workshop on Answer Set Programming and Other Computing Paradigms
- 13th International Colloquium on Implementation of Constraint and LOGic Programming Systems
- 23rd Workshop on Logic-based methods in Programming Environments
- 1st Knowledge Representation and Reasoning in Robotics
- WG17

and the Doctoral Consortium. These co-located events took place at the Sabancı University Karaköy Communication Center during 24—25 August 2013.

There were about 120 participants at ICLP 2013, including about 30 students. Among them were 4 graduate students, 3 postdoctoral researchers, and 3 faculty members from SU.

There were 17 long and 26 short presentations at the main conference over four days; each long presentation took 30 minutes and each short presentation took 15 minutes.

There were 4 invited speakers:

- C. R. Ramakrishnan
- Pascal Hitzler
- Torsten Schaub
- Hans van Ditmarsch
ICLP 2013 had a positive impact on the visibility of Sabancı University:

- Prof. Sondan Durukanoğlu Feyiz gave the opening speech of the conference, emphasizing the importance of foundational research for our university.

- Organization: Assoc. Prof. Esra Erdem was one of the general chairs of the conference. Dr. Peter Schueller was the publicity chair. Assoc. Prof. Volkan Patoglu was one of the organizers of the workshop on Knowledge Representation and Reasoning in Robotics.

- Participation: 4 graduate students, 3 postdoctoral researchers, and 3 faculty members from SU participated in the conference/workshops.

- Cognitive Robotics Lab presented one paper at the main conference (long presentation):
  
  - Finding Optimal Plans for Multiple Teams of Robots through a Mediator: A Logic-Based Approach
    - Esra Erdem, Volkan Patoglu, Zeynep Gozen Saribatur, Peter Schueller and Tansel Uras
    
    http://dx.doi.org/10.1017/S1471068413000525

  and three papers at the workshop on Knowledge Representation and Reasoning in Robotics:

  - Levels of Integration between Low-Level Reasoning and Task Planning
    - Esra Erdem, Volkan Patoglu, and Peter Schueller
  
  - Integration of 3D Object Recognition and Planning for Robotics Manipulation: A Preliminary Report
    - Damien Jade Duff, Esra Erdem, and Volkan Patoglu
  
  - ReAct! An Interactive Tool for Hybrid Planning in Robotics
    - Zeynep Dogmus, Esra Erdem, and Volkan Patoglu

  http://redwood.cs.ttu.edu/~smohan/krr_iclp13/program.html

- As a result of collaboration between Formal Methods for Software Reliability Group and Knowledge Representation and Reasoning Group, another paper from SU was presented at the workshop on Answer Set Programming and Other Computing Paradigms:

  - Generating Shortest Synchronizing Sequences Using ASP
    - Canan Güniçen, Esra Erdem, and Hüsnü Yenigün

  http://www.kr.tuwien.ac.at/events/aspocp2013/aspocp13proceedings.pdf

- Cognitive Robotics Lab co-organized the 1st Workshop on Knowledge Representation and Reasoning in Robotics. After the success of this meeting, the 2nd workshop is planned at Stanford University, as part of AAAI Spring Symposium Series: http://redwood.cs.ttu.edu/~smohan/krr_aaa14/.
Total expenses of the meeting was about 45000 euros. As sponsors, Artificial Intelligence journal provided 2000 euros, ALP provided 8000 euros, and SU provided 7500 TL to cover some expenses of the students who participated in the DC, and the invited speakers. The rest of the expenses were covered by the registration fees.


Accepted papers are published in a Special Issue of the Theory and Practice of Logic Programming journal as regular papers, and technical communications as supplementary material (Volume 13 / Special Issue 4-5 / July 2013): [http://dx.doi.org/10.1017/S1471068413000112](http://dx.doi.org/10.1017/S1471068413000112).