Ramon Llull: From the Ars Magna to Agreement Computing

Carles SIERRA

Artificial Intelligence Research Institute (IIIA)
Spanish Scientific Research Council (CSIC).
Campus UAB. Carrer de Can Planes, s/n.
08193 Bellaterra, Catalonia

The philosopher Ramon Llull (1212-1316) proposed the Lullian Art, an argumentative method to convince non-Christians about the truth of the Christian faith. Although the purpose of his method is obviously futile, Llull made a seminal contribution to one of nowadays most exciting areas of research in Multiagent Systems: Agreement Computing. He proposed a basic alphabet, (extended later by Leibniz using numbers), which, by means of combinations, would build a consistent vision of the world that everybody should agree upon. In this talk I will describe Llull's contribution to logic, argumentation and social choice and the current research trends in Agreement Computing. In particular, I will survey the areas of Negotiation, Argumentation and Regulation, and, when possible, I will relate them to Llull's vision.