This volume contains the papers presented at the Twenty-Third International FLAIRS Conference (FLAIRS-23) held 19 – 21 May 2010 in Daytona Beach, Florida, USA. The call for papers attracted 171 submissions, 58 to the general conference and 113 to the special tracks. Special tracks are a vital part of the FLAIRS conferences, with 9 held at FLAIRS-23. Over 90 percent of the papers were reviewed by four or more reviewers, and all papers were reviewed by at least three. These were coordinated by the program committees of the general conference and the special tracks. The accepted submissions include 83 papers (22 from the general conference and 61 from the special tracks) and 28 poster papers (13 from the general conference and 15 from the special tracks) that appear in these proceedings.

The Best Paper award went to Sidney D’Mello, Blair Lehman, and Natalie Person for “Expert Tutors’ Feedback Is Immediate, Direct, and Discriminating,” a submission to the Special Track on Intelligent Tutoring Systems. The Best Student Paper award went to Rong Hu, Brian Mac Namee, and Sarah Jane Delany for “Off to a Good Start: Using Clustering to Select the Initial Training Set in Active Learning,” a submission to the general conference.

The program included six invited talks: Eugene Charniak of Brown University presented “EM Works for Pronoun-Anaphora Resolution”; Herbert H. Clark of Stanford University presented “Rational Ways of Talking”; Anthony Cohn of the University of Leeds presented “A Qualitative Spatio-Temporal Approach to Activity Recognition and Object Classification”; Janet L. Kolodner of the Georgia Institute of Technology presented “How Can We Help People Develop their Creativity?”; David Poole of the University of British Columbia presented “What Should the World-Wide Mind Believe? Knowledge and Uncertainty at a Global Scale”; and Jorge C. G. Ramirez of Apple, Inc. presented “Data Mining, Academia and Business: Then and Now.”

Thanks go to the authors of both accepted and rejected papers; the special track coordinator Philip McCarthy and all the special track organizers; the program committees and their reviewers; the invited speakers; David Wilson for organizing the conference; Jean Gerber for administering the conference; the Florida Artificial International Research Society for maintaining the conference series; the Association for the Advancement of Artificial Intelligence for its cooperation with the conference; Mike Hamilton for organizing the publication of the proceedings; Gayle Hess for logo design; and EasyChair for hosting the review process.

– R. Charles Murray and Hans W. Guesgen
FLAIRS-23 Program Chairs