Proceedings of the 6th International Conference on Educational Data Mining (EDM 2013)

July 6-9, Memphis, TN, USA

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Foreword

Welcome to the sixth installment of the International Conference on Educational Data Mining (EDM 2013), which will be held in sunny Memphis, Tennessee from the 6th to 9th of July 2013. Since its inception in 2008, the EDM conference series has featured some of the most innovative and fascinating basic and applied research centered on data mining, education, and learning technologies. This tradition of exemplary interdisciplinary research has been kept alive in 2013 as evident through the imaginative, exciting, and diverse set of papers spanning the fields of Machine Learning, Artificial Intelligence, Learning Technologies, Education, Linguistics, and Psychology. The EDM 2013 conference program features a rich collection of original research embodied through oral presentations, posters, invited talks, a young researchers track, tutorials, interactive demos, and a panel session.

We received 109 submissions for the main track. Each submission was assigned to three members of the Program Committee based on their areas of expertise. Their reviews were then examined by the Program Chairs who coordinated discussions among the reviewers in order to arrive at a decision. Twenty-seven out of the 109 submissions were accepted as full papers (a 25% acceptance rate) and 22 as short papers (a 45% acceptance rate for full and short papers). An additional 27 were accepted as poster presentations.

In addition to the main track, the conference received 15 submissions to the young researchers track (YRT), 7 to the late-breaking results track, and 9 to the interactive events track. Six of the YRT submissions were accepted into the YRT with an additional two being accepted as posters. Five late-breaking results papers were accepted, as were the nine demo papers.

Each day of the conference will be kick-started by invited talks by three outstanding researchers: Valerie Shute (Florida State University), John Anderson (Carnegie Mellon University), and Ryan Shaun Joazeiro de Baker (Teachers College Columbia University). The main conference will end with a panel session on the future of EDM with panelists including Tiffany Barnes, Ed Dieterle, Neil Heffernan, Taylor Martin, and Sebastian Ventura, and moderated by Sidney DMello and Ryan Baker. The conference will be followed by a series of mini-tutorials led by Agathe Merceron, David Cooper, and Tristan Nixon.

EDM 2013 has broken a number of records. As noted in the figure on the left, we received a record number of 109 submissions this year, a 36% increase from the last two years and a 140% increase since the first EDM conference. This allowed us to accept a larger number of papers for oral presentation (53% increase from EDM 2012) while still maintaining the historic acceptance rate (45% in 2013 compared to average 41% rate from 2008 to 2012). Although EDM has historically been a single-track conference, the increase in the number of submissions and accepted papers led us to a blended approach of both single and dual tracks. Another novelty to EDM is the introduction of short mini-tutorials that will be held on July 9th.

The EDM 2013 conference would not have been possible without the vision and dedicated effort of a number of people. We are indebted to the Program Committee and the additional reviewers for their exceptional work in reviewing the submissions and helping us select the best papers for the conference. We would like to acknowledge Tiffany Barnes and Davide Fossati for
organizing the YRT. Kristy Boyer and Usef Faghihi conceived the brilliant idea of having EDM mini-tutorials and we would like to thank them for putting those together. We would also like to thank Fazel Keshtkar and Sebastian Ventura for organizing the interactive events. A special thanks to Phil Pavlik for managing the website and for joining us on the awards committee. Finally, thanks to the authors for sending us their best work and to all the attendees who bring EDM to life.

Andrew Olney, Phil Pavlik, and Art Graesser would like to thank Ryan Baker for his encouragement to host the 2013 conference, John Stamper for his efforts in securing sponsorships, and Natalie Person for masterminding our incredible banquet. We are indebted to a number of students who worked tirelessly in the months leading up to the conference, including Jackie Maas, Breya Walker, Haiying Li, Nia Dowell, Blair Lehman, Brent Morgan, Carol Forsyth, Patrick Hays, and Whitney Cade. Additional thanks go to Conference Planning and Operations at the University of Memphis, especially Courtney Shelton and Holly Stanford. We would also like to thank our sponsors, The University of Memphis (Office of the Provost), Carney Labs, the Institute for Intelligent Systems, and Pearson, who generously provided funds to help offset registration costs for students. Finally, we would like to gratefully acknowledge the National Science Foundation who provided funds to offset costs for students to attend the YRT and the conference under grant IIS 1340163.

In summary, 2013 appears to be an excellent year for Educational Data Mining. The keynotes, oral and poster presentations, live demos, young researchers track, panel session, mini tutorials, and attendees from all over the world will undoubtedly make the EDM 2013 conference an intellectually stimulating, enjoyable, and memorable event.

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