CFP: Educational Data Mining 2015

(http://www.edm2015.conferences.academy)

Special Session in

The 2nd International Conference on Behavioral, Economic and Socio-Cultural Computing (BESC'2015)

Introduction

Data mining provides educational institutions the capability to explore, visualize and analyze large amounts of data in order to reveal valuable patterns in students' learning behaviors without having to resort to traditional survey methods (Hung & Crooks, 2009; Abdous & He, 2011). Turning raw data into useful information and knowledge also enables educational institutions to improve teaching and learning practices, and to facilitate the decision-making process in educational settings. Thus, educational data mining is becoming an increasingly important research area with a specific focus to exploit the abundant data generated by various educational systems for enhancing teaching, learning and decision making (Romero & Ventura, 2007; Baker & Yacef, 2009; Romero and Ventura , 2010). According to the Educational Data Mining community website (www.educationaldatamining.org), educational data mining (EDM) is defined to be "an emerging discipline, concerned with developing methods for exploring the unique types of data that come from educational settings, and using those methods to better understand students, and the settings which they learn in."

Topics:

To further contribute to the understanding of educational data mining, we invite original articles in relevant topics, which include but are not limited to:

- Data mining in education
- Learning analytics
- "Big Data" applications and opportunities in learning and education
- Integrating data mining and pedagogical theory
- Data mining with emerging pedagogical environments such as educational games and MOOCs
- Recommender systems for learning
- Best practices in educational data mining
- Case studies

Submission Guideline

Paper submissions should be limited to a maximum of five (5) pages, in the IEEE 2-column format. All Submitted papers (via https://easychair.org/conferences/?conf=besc2015) will be reviewed by the Special Session Program Committee on the basis of technical quality, relevance to special session topics

of interest, originality, significance, clarity, and result interpretation. Accepted papers will be published in the main conference proceedings by IEEE.

Key Dates:

- Submission due: 31/7/2015
- Notification: 20/8/2015
- Camera ready due: 30/8/2015

Organizer:

- Dr. Guandong Xu
  Advanced Analytics Institute
  University Technology Sydney, Australia
  PO Box 123, Broadway, NSW 2007
  guandong.xu@uts.edu.au

- Dr. Gang Li
  School of Information Technology
  Deakin University, Melbourne Campus at Burwood
  VIC 3125, Australia
  gang.li@deakin.edu.au

- Dr. Wu He
  Department of Information Technology & Decision Sciences
  College of Business and Public Administration
  Old Dominion University, Norfolk, VA 23529
  whe@odu.edu

References

Abdous, M., & He, W. (2011). Using text mining to uncover students' technology-related problems in live video streaming. British Journal of Educational Technology, 42(1), 40-49.

Baker, R., & Yacef, K. (2009). The state of educational data mining in 2009: A review and future visions 2009. Journal of Education Data Mining, 1(1), 3-17.

Hung, J., & Crooks, S. M. (2009). Examining online learning patterns with data mining techniques in peer-moderated and teacher-moderated courses. Journal of Educational Computing Research, 40(2), 183-210.

Romero,C. & Ventura,S. (2007). Educational data mining: A survey from 1995 to 2005. Expert Syst. Appl., vol. 1, no. 33, pp. 135–146.

Romero, C., & Ventura, S. (2010). Educational data mining: A review of the state of the art. IEEE Transaction on Systems, Man, and Cybernetics, Part C: Applications and Reviews. 40(6), 601-618.