



Special Track:

Data Mining

Data mining refers to a process in which large amounts of data are assembled into a comprehensive collection from which previously unknown information is extracted using automated means. Approaches include those from machine learning and statistics. The information gained from the data is then placed into context and becomes knowledge in the hands of experts. This completes the transformation of data into information into knowledge. Data mining (also called knowledge discovery) was previously represented in the machine learning track at FLAIRS, but the field has grown to reach beyond issues addressed by machine learning, and therefore a separate special track is now appropriate. To avoid overlap, however, we focus on applications of machine learning and statistical approaches, new algorithms that are problem-specific and more closely aligned with the field of data mining than general-purpose machine learning (such as the apriori algorithm for market basket analysis), as well as process-related research. This year the track's topics include applications in energy production and intrusion detection, and novel algorithms for frequent item-set discovery, graph grammar inference and clustering.