Data Mining: Cause or Consequence

Wagner Meira Jr

Universidade Federal de Minas Gerais Belo Horizonte, Brazil
meira@dcc.ufmg.br

Abstract. Data mining arose as a merge of several areas such as databases, statistics and artificial intelligence, and has been growing steadily in the last 20 years. Recently, the popularization of the concepts of *Data Science* and *Big Data* accelerated the process. In this seminar we try to answer the question whether data mining is cause or consequence of these recent developments through an integrated view of four key components of data mining research and development, nominally models, algorithms, systems and applications, and how they are employed in scenarios such as internet and web. We will also discuss some trends related to knowledge and information discovery from massive data.