

Mining Social Media for Public Health

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Abstract

The online population creates a vast organic sensor network composed of individuals reporting on their activities, their social interactions, and the events around them. This firehose of data streams in real time, and is often annotated with context including GPS location, relationships, and images. We present case studies of data mining social media to improve our understanding of public health, including the spread of infectious disease, food poisoning, and drug and alcohol abuse.

Bio

Henry Kautz is the Robin & Tim Wentworth Director of the Goergen Institute for Data Science and Professor in the Department of Computer Science at the University of Rochester. He has served as department head at AT&T Bell Labs in Murray Hill, NJ, and as a full professor at the University of Washington, Seattle. In 2010 he was elected President of the Association for Advancement of Artificial Intelligence (AAAI). His research in artificial intelligence, pervasive computing, and healthcare applications has led him to be honored as a Fellow of the American Association for the Advancement of Science (AAAS), Fellow of the Association for Computing Machinery (ACM), and Fellow of the AAAI. He has received the IJCAI Computers & Thought Award, the UbiComp 10-Year Impact award, the AAAI Classic Paper award, and the IAAI Deployed Application award.