Applications of Text Retrieval, Classification, and Mining

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Abstract: This presentation will summarize the presenter’s work on feature selection and fusion in text information retrieval and classification, and different applications of the techniques. Some of the issues, such as the need to address the large dimensionality, the need to evaluate the number and quality of features, as well as their combinations, will be described briefly. A brief exposition to the presenter’s joint work with other researchers in mining biomedical literature for identifying relationships among genes will also be made. Other applications involving working with students on applying information retrieval techniques to television program selection through an analysis of closed caption transcripts and on analyzing patterns in the poetry of "Generation 1927" Spanish poets will also be briefly described.

Biography: Dr. Venu Dasigi is a Professor and Department Chair of Computer Science at Bowling Green State University in Bowling Green, Ohio. He was Department Chair of Computer Science and Software Engineering in the School of Computing and Software Engineering at Southern Polytechnic State University in Atlanta until mid 2012. He had summer research fellowships at Oak Ridge National Laboratory and Air Force Research Laboratory. He was a member of the Yamacraw (later Georgia Electronic Development Center) research team 1999-2004, and led the team during 2002-2003. He worked on a couple of successful Small Business Innovation Research proposals. He also served as a Commissioner on the Computing Accreditation Commission of ABET, Inc. He has a Ph.D. in Computer Science from the University of Maryland, College Park, and has 24 years of post-doctoral full-time faculty experience. He is currently a Senior Member of the Association for Computing Machinery.