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1	Line of edeline the	Financial	Foreign	Metro	National	Sports	Entropy	Purity
1	3	5	40	506	96	27	1.2270	0.7474
2	4	7	280	29	39	2	1.1472	0.7756
3	1	1	1	7	4	671	0.1813	0.9796
4	10	162	3	119	73	2	1.7487	0.4390
5	331	22	5	70	13	23	1.3976	0.7134
6	5	358	12	212	48	13	1.5523	0.5525
Total	354	555	341	943	273	738	1.1450	0.7203
we p_{ij} of c calc clas clus j, K	compute p_{ij} , the $= m_{ij}/m_j$, where $lass i$ in cluster q ulated using the sees. The total ent: ter weighted by th ζ is the number of ging the terminal	'probability' m_j is the nu i. Then usi standard for ropy for a se e size of eac ' clusters, an	' that a m imber of vi- ng this cli mula $e_j =$ t of cluster, i d m is the for entror	the distribution of the end of the distribution of the distribution of the end of the e	f cluster j h luster j and bution, the $j \log_2 p_{ij}$, w lated as the $\sum_{i=1}^{K} \frac{m_i e_j}{m_i e_j}$, mber of dat	belongs t l m_{ij} is t entropy there the e sum of t where m_j a points.	o class i as he number of each clu L is the m the entropic is the size	s follows: of values uster i is umber of es of each of cluster

Final Comment on C	luster Validity	
"The validation of clu difficult and frustration	istering structures is the mong part of cluster analysis.	st
Without a strong effor analysis will remain those true believers great courage."	ort in this direction, cluster a black art accessible only t who have experience and	to
Algorithms for Cluster	ing Data, Jain and Dubes	
Introduction to Data Mining	8/30/2006	57