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Splitting criteria for classification problems with multi-valued attributes and large number of classes

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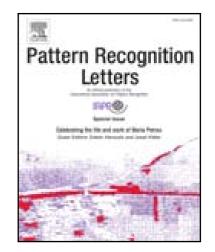
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## Highlights

- A framework for designing splitting criteria for handling multi-valued attributes;
- An efficient variation of Gini Gain with an approximation guarantee of optimal value;
- Experimental evidence that our new criteria are competitive with Twoing criterion;
- Experimental evidence of the usefulness of aggregating nominal attributes.



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