

# **p-Willmore Energies**

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## ABSTRACT

The notion of p-Willmore energy will be introduced and discussed. For the case  $p = 2$  (the usual Willmore case), some new information will be presented. Results regarding the first variation, second variation, stability and flow will be linked to real-world applications and generalizations of the Willmore energies. Several examples, old and new, will be provided.