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Shape optimization is part of the field of
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problem is to find the shape which is optimal in that it minimizes a certain cost functional while satisfying given constraints. In many cases, the functional being solved depends on the solution of a given partial differential equation defined on the variable domain.

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Shape optimization - Wikipedia

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the development on the theory of shape
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mathematics is one of the primary
manifestations of the free creative
power of the human mind. — Hermann
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Calculus 1

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the calculus of variations, optimal control theory and structural optimization. In this book the authors discuss the shape calculus introduced by J. Hadamard and extend it to a broad class of free boundary value problems.

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shape optimization is a more advanced kind of optimization. This time, the shape is modified step by step, but it keeps the same topology as an initial shape, e.g. in 2D, it's impossible to create or delete hole in the shape topology optimization which is like shape optimization but with no topological limitations whatsoever

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The numerical optimization procedure provides a means to simulate shape changes that are predicted to occur by the chondral modeling theory. Although no growth is occurring in the model, the shape changes are hypothesized to

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reflect stress-regulated growth of the
articular surface.

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