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A new methodology for facilitating the design of safety-related parts of control systems in machines according to ISO 13849:2006 standard

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**Highlights**

- SRP/CS in machinery are mostly designed according to ISO 13849-1:2006.
- The design method in this ISO standard is based on a trial-and-error procedure.
- The result could be far from the optimal solution in terms of cost and safety.
- A new method for designing SRP/CS according to ISO 13849-1:2006 is presented.
- The proposed method, implemented in a software, reduces time and cost investment.

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