

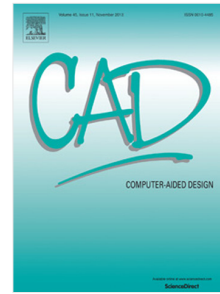
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Solving piecewise polynomial constraint systems with decomposition and a subdivision-based solver

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Graphical Abstract (for review)

1: $\|c_S(t) - B\|^2 = L_3^2$

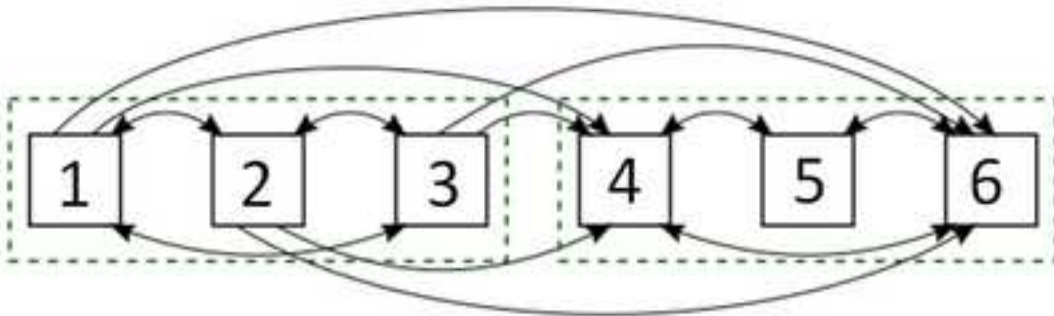
2: $\langle S_u(c(t)), B - c_S(t) \rangle = 0$

3: $\langle S_v(c(t)), B - c_S(t) \rangle = 0$

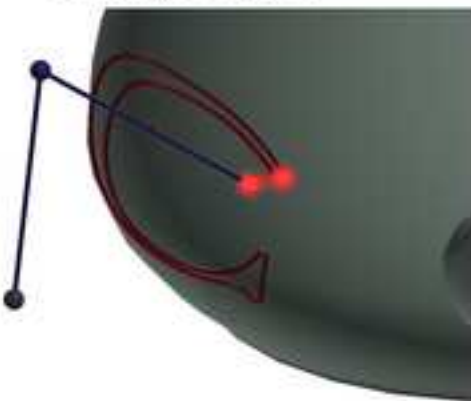
4: $\|B - A\|^2 = L_2^2$

5: $\|A - P_0\|^2 = L_1^2$

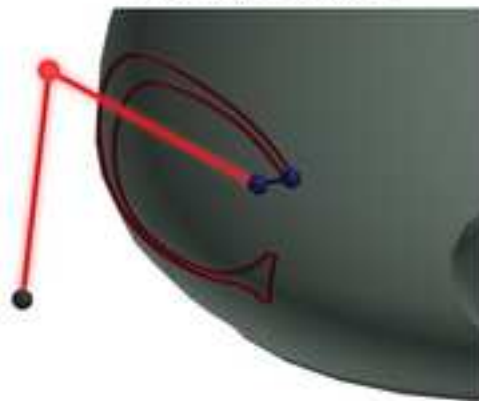
6: $z((B - A) \times (A - P_0)) = 0$



Subsystem 1



Subsystem 2



The teapot engraving problem and its decomposition into subsystem

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