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design based on the symmetrical structure of the mirror system but included the compliance components and the first natural mode of the system. Then, multi-input multi-output controllers were designed

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based on a classical method and the  $H^{\infty}$  optimal ...

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coordinated control laws synthesized using a conventional SI ICE powerplant-alternator combination, a dry clutch and manual transmission/differential, variable field alternator,

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experiment to justify the  
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challenging, since there are multiple couplings between the active cables, passive cables, joints and end-effector. To deal with these problems, this paper proposes a dynamic modeling and trajectory tracking

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control methods for such type of CDHRR, i.e., SL-CDHRR.

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Processing, EBCCSP2016. This paper was co-authored by me and Mark Nixon and Bailee Roach, University of Texas at Austin.

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of performance indices according to the predictor. Both design problems need an explicit model form and both require this three-step design procedure. Can this design procedure be simplified? Can an explicit



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model be avoided? With these questions in mind, the authors eliminate the first and second step of the above design procedure, a "data-driven" approach in the sense that no traditional parametric models are used;

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