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**Thomas Höft\*** ([hofthoft@stthomas.edu](mailto:hofthoft@stthomas.edu)). *Camera response function modeling for high dynamic range photography.*

We describe an inverse problem for jointly determining a high dynamic range image and the response function of a camera system from multiple photographs of a scene captured with different exposure times. This work focuses on few-parameter models of the camera response function and their impact on the inverse problem. (Received September 22, 2015)