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## Introduction

I la i bea i g a e e e ial c e i de e gi ee i g

he def ai f he ae, he di lace e f he beaig ca be de e i ed. SLP i ca able f high- eed ea e e a d e e la  $i_0$  el i le e e  $i_0$  e  $i_$ 

## Advantages of vision-based displacement measurement

Non-contact measurement: Vi i -ba ed e h d d e di e h ical c ac i h he i la i bea i g, eli i a i g he i k f i e fe e ce i h he e ' d a ic.

High accuracy: Wi h ad a ce e i ca e a ech l g a d i age ce i g alg i h , i i -ba ed e h d ca achie e high le el f ea e e acc ac [6].

Full-field measurement: Vi i -ba ed ech i e ide a a iall di ib ed di lace e eld, e abli g e gil ee b e e l cali ed di lace e a d de ec e ial i e i he bea i g' beha, i [7].

## Challenges and limitations

Lighting conditions: Vi i -ba ed ech i  $_{\hat{V}}e$  a e e i  $_{\hat{V}}e$ 

egieeig ce.A ech lg cie advace, viiba ed di lace e ea e e i e ec ed la a i al leie ighe afe a deliabili foai ifa ce e e.

Rega dle fhela ge all def a i fheila i bea i g, he he he ca e a i ed vig, he h i al di lace e i e hi b ai ed b he vi al eh d i al he a e a he e d b ai ed b he di lace e e e e e e e e e e i la ge he he ca e a i vig. Heve, c a ed i h he e d ea ed b he di lace e e e, he ab lee fhe eak h i al di lace e i le ha 1, a d he e a i i le ha 1.5%, hich ee he accac e i e fhe h i al di lace e ea e e fhe i da i bea i g. i e d h ha he ed vial eh d ca c lee he h i al def a i de ec i fheila i bea i g. de vai c dii.

e a ef e d f he e ical di lace e i e hi c e e a e d b he i al gi he i lace e e e, b i c a e c i l al gi h he i e i . + e ea i ha he e ical di lace e f he i la i bea i gi le ha 1 . C a ed i h he ab l e al e f he e ical di lace e , he e a ic e ca e d b he e i al e e e h d i clea, b he a i ab l e e i l 1.851 . Li i e d b he e e i e al e e e h di lace e i t e a e e e h di lace e i t e a e e e h e e i e al e e e e h e e a e a d he i la i bea i gi he h i al di lace e f he i la i bea i gi he h i al di lace e f he i la i bea i gi he h i al di lace e f he i la i bea i gi f he ca e a i e be ide ha he h i al di lace e f he i la i bea i gi f he ca e a i e be ide ha he h i al di lace e f he i la i bea i gi f he ca e a i e be ide ha he h i al di lace e f he i la i bea i gi f he ca e a i e be ide ha he h i al di lace e f he i la i bea i gi he h i al di lace e f he i la i bea i gi f he ca e a i e be ide ha he h i al di lace e f he i la i bea i gi ca be b ai ed. i e h di illa licable ac al ei ici la i jec .

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