

Smoke detection Algorithm

Su Feng Jingcheng Deng

Content

- Motivation
- Background
 - Chromatic analysis
 - -MHI
 - Dark channel prior
- Implementation
- Test results / Demo



Motivation

- Smoke detection is important
- · Video based detection is challenging
- About the paper:
 - Limited information
 - Algorithm descriptions are too simple
 - Methods from referenced papers



Background

- Chromatic analysis
 - Used to efficiently picking potential smoking pixels to speed up consequent operations.
 - Aiming for high sensitivity but also high false positive rate.





