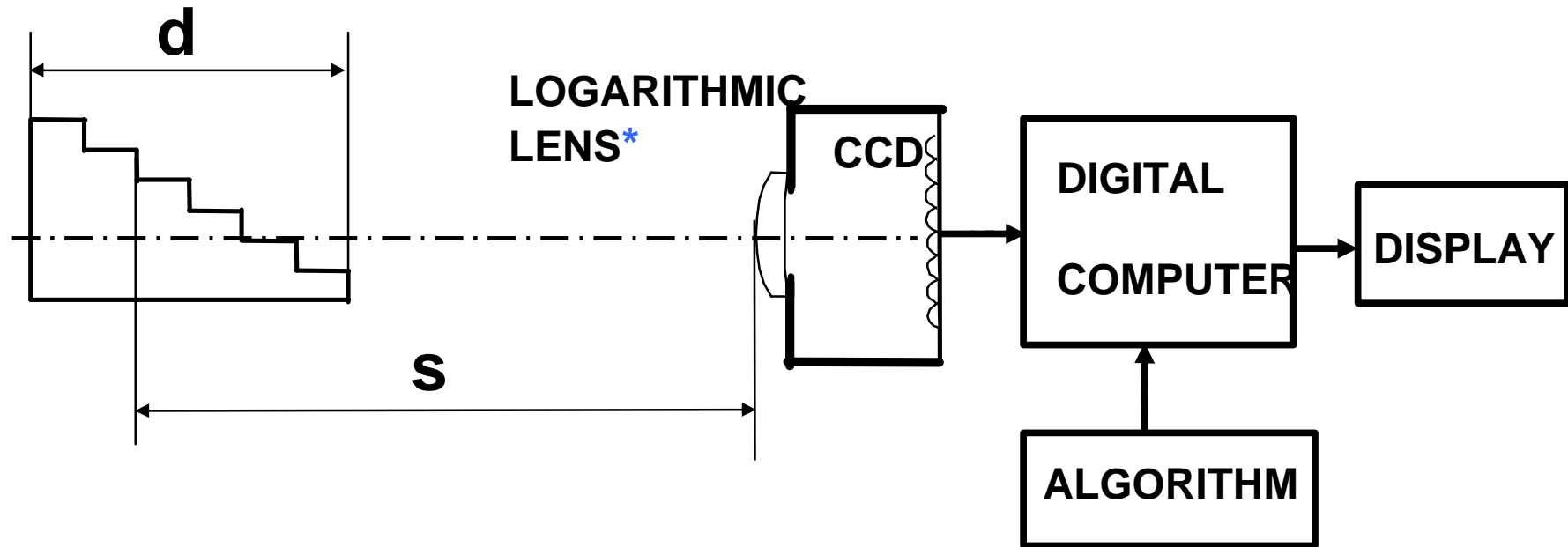


SMART CAMERA FOR EXTENDED DEPTH-OF-FIELD

WANLI CHI
NICHOLAS GEORGE



● OBJECTIVE

EXTENDED DEPTH-OF-FIELD

USING INTEGRATED

IMAGING & PROCESSING

NOVEL LOGARITHMIC ASPHERE

● APPROACH

● SINGLE ELEMENT OPTICS

OSLO

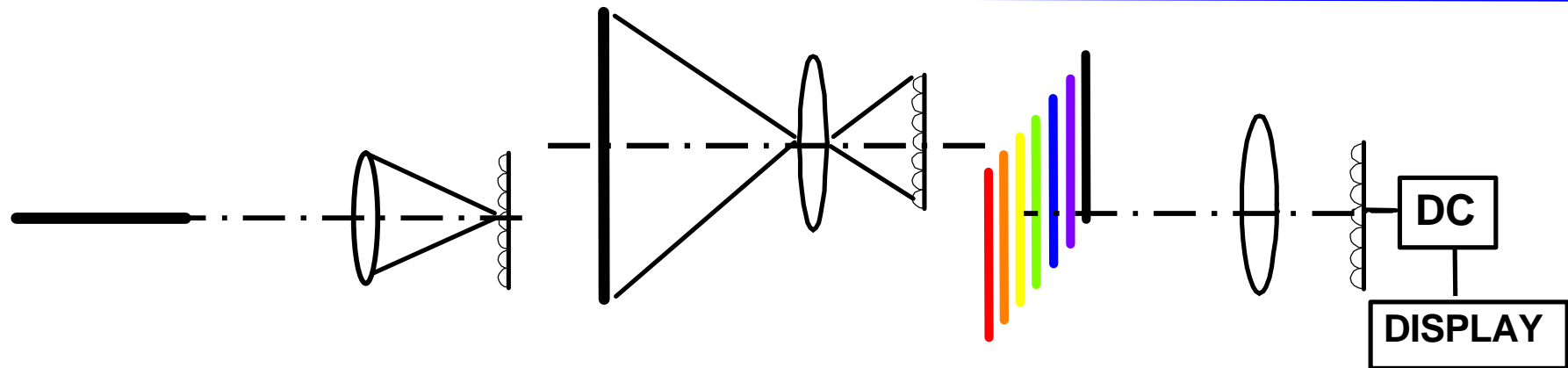
● NONLINEAR DIGITAL RECOVERY

MAX ENTROPY

* W. CHI and N. GEORGE, OPT. LETT. 26, 875 (2001).

**NOVEL LENS CONCEPT:
INTEGRATED COMPUTATIONAL IMAGING SYSTEM**

**WANLI CHI
NICHOLAS GEORGE**



● OBJECTIVE

● APPROACH/RESULT

ALL DIGITAL SIMULATION

EXTENDED DEPTH-OF-FIELD

FILTER IDEA

EXTENDED FIELD OF VIEW

SIGNAL NOISE RATIO

ACHROMATIC IMAGING

RESOLUTION

IMAGE QUALITY

OTHER

WIDE APPLICATION AREA

SINGLE USE CAMERA

DVD PICKUP

MICROSCOPE

DIGITAL VIDEO

March 2002