M. H. White

CCD

1978

1978 INTERNATIONAL CONFERENCE ON THE APPLICATION OF CHARGE COUPLED DEVICES

25-27 October

PROCEEDINGS

Sponsored by

Naval Ocean Systems Center
San Diego, CA 92152

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FOREWORD

The 1978 Charge Coupled Device (CCD) Applications Conference marks the fifth such event entirely devoted to presentation of ideas, problems, and solutions in this phase of the semiconductor technology.

Pursuing the guidelines established at the first Conference in 1973 at the Naval Electronics Laboratory Center, San Diego, California, this Conference aims to reflect the impact of device concept in design of present and future systems for improved performance and lower cost. Technology has been extended to a high level of sophistication in the move from the laboratory demonstration to varied applications, such as development of focal plane infrared (IR) arrays, analog and digital signal processors, imagers, and memory components.

This year the technical presentations reflect the fact that there is more to CCD than the television camera. There are four main sessions, with a double session on signal processors. The varied areas illustrate the wide technical scope of CCD development at this period of time. Each session is structured around an invited paper which is followed by the contribution papers. The invited paper describes the device technological approach and its characteristics, and the contributed papers, in general, state current system limitations and demonstrate how the inclusion of a CCD device results in enhanced overall performance. The "Performance Characterization and Analysis" session has been included to cover specific topics common to various application areas such as radiation effects or techniques for leakage reduction, high-speed operation, and interfacing to Surface Acoustic Wave devices.

Special appreciation is expressed for the contributions of the Program Committee in producing this program.

ISAAC LAGNADO
CCD '78 Conference Chairman

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