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P.5

ENGINEERING GRAPHICS AND IMAGE PROCESSING
AT LANGLEY RESEARCH CENTER

SUSAN J. VOIGT

ANALYSIS AND COMPUTATION DIVISION

PRESENTED AT

NASA COMPUTER SCIENCE/DATA SYSTEMS TECHNICAL SYMPOSIUM

LEESBURG, VA

APRIL 16, 1985

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ENGINEERING GRAPHICS AND IMAGE PROCESSING

**OBJECTIVE: TO MAKE RASTER GRAPHICS AND IMAGE PROCESSING TECHNIQUES
READILY AVAILABLE FOR THE ANALYSIS AND DISPLAY OF
ENGINEERING AND SCIENTIFIC DATA**

RTOP: 505-37-23

**KEY PERSONNEL: DR. STEPHEN K. PARK
DONALD L. LANSING**

ENGINEERING GRAPHICS AND IMAGE PROCESSING

**APPROACH: DEVELOP AND ACQUIRE TOOLS AND SKILLS WHICH ARE APPLIED
 TO SUPPORT LARC RESEARCH ACTIVITIES IN SUCH DISCIPLINES
 AS AERONAUTICS AND STRUCTURES**

0	SOLID GEOMETRY MODELING	SPACE STATION
0	MOVIE BYU	SPACE STATION, FLUID FLOW
0	RASLIB	FLUID FLOW
0	DI-3000	STRUCTURAL VIBRATIONS
0	IMAGE ANALYSIS	FLUID FLOW
0	SMOOTH SURFACING	PRESSURE DATA INTERPOLATION

GRANTS

GEORGE WASHINGTON UNIVERSITY
DR. JAMES D. FOLEY
HIGH-LEVEL GRAPHICS PROGRAMMING LANGUAGE

BRIGHAM YOUNG UNIVERSITY
DR. MICHAEL B. STEPHENSON
SUBROUTINE LIBRARY FOR SHADED IMAGES

NORTH CAROLINA STATE UNIVERSITY
DR. DAVID F. MCALLISTER
SURFACING TECHNIQUES WITH QUADRATIC SPLINES

COLLEGE OF WILLIAM AND MARY
DR. KEITH MILLER
DATA TYPES FOR IMAGE ENHANCEMENT

ORIGINAL PAGE IS
OF POOR QUALITY

