



# Purdue: LARS

## Symposium Proceedings

Machine Processing of Remotely Sensed Data

June 29 - July 1, 1976

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76 CH 1103-1 MPRSD

Laboratory for Applications of Remote Sensing  
Purdue University West Lafayette, Indiana

The symposium for which these *Proceedings* are the written record marks two anniversaries.

Ten years ago several scientists and engineers at Purdue University joined forces to seek effective ways to bring the modern technologies of sensor systems and computers to bear on problems related to monitoring and managing the Earth's resources. Thus was born the Laboratory for Agricultural Remote Sensing (LARS), later to broaden its initial charter and become the Laboratory for Applications of Remote Sensing. In the years since, the importance of conserving our resources has become frighteningly apparent. As the urgency of this problem has grown, so too has the potential payoff of research into machine processing of remotely sensed data. Since 1966, when only a few relatively isolated organizations were pursuing this research, we have seen the evolution of a full-blown research community, the scale and scope of which is well reflected by the list of contributors to this symposium.

Four years ago this July the first Earth Resources Technology Satellite, now called LANDSAT-1, was successfully orbited, and remote sensing took a giant stride forward. Through use of the LANDSAT data, it would soon be demonstrated more clearly than ever before that the synthesis of advanced sensor systems and data processing by computer could provide, on a cost-effective and timely basis, information vitally needed by those engaged in monitoring and planning the conservation of our resources.

Progress toward realizing the potential of this technology continues to be great on many fronts. Thus the purpose of these symposia on machine processing of remotely sensed data is to periodically bring together scientists, engineers, and others interested in an in-depth review of recent results in the theory and application of the technology.

These *Proceedings* contain the full text of the full-length papers plus the titles and abstracts of the short papers presented at this symposium and are intended not only as a record and reference for those attending the symposium but also as a source of current research information for those not able to attend.

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Philip H. Swain  
Symposium Chairman

**SYMPOSIUM  
on  
Machine Processing  
of Remotely Sensed Data**

**June 29 – July 1, 1976**

**THE LABORATORY FOR APPLICATIONS OF REMOTE SENSING**

**PURDUE UNIVERSITY  
WEST LAFAYETTE, INDIANA**

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BANQUET SPEAKER

Lester S. Willson  
E. I. du Pont de Nemours and Company, Inc.

"I Can't Hear You, The Water is Running"