

Preface

CEOT 94, the Conference on Emerging Optoelectronic Technologies was held at the Indian Institute of Science, Bangalore during 18–22 July 1994. The conference had its focus on the recent developments and emerging trends in optoelectronic technologies. It brought together on a common platform researchers and systems designers from academic institutions, R&D laboratories and industries from different parts of the world. The topics covered included optoelectronic technologies, device packaging, linear and nonlinear optics, optical waveguides—theory and applications, optical processing and computing, optical sensors, liquid crystal displays, materials for optoelectronics and related topics. A proceedings of the conference was brought out but a special issue covering enlarged versions of some selected papers in key topics was contemplated.

It is against this background this issue of the *Journal of the Indian Institute of Science* is being brought out. Our invitation to several scientists evoked a positive response and the result is this issue. There are 13 articles in all covering as wide a range of topics as materials for optoelectronics, mode analysis in optical waveguides to optical computing and switching. We believe that this issue addresses current trends in some of the contemporary areas of optoelectronics. It is expected to stimulate further work in chosen topics.

We would like to place on record our great appreciation to the Editor of the *Journal* for agreeing to bring out this special issue and inviting us to be its guest editors. We thank all the contributors and reviewers for their excellent cooperation. We would like to specially thank Mr K. Sreenivasa Rao, Assistant Editor of the *Journal*, and his colleagues for their untiring help and assistance.

Department of Physics

H. L. BHAT

Department of Instrumentation

S. MOHAN

Department of Electrical Communication Engineering
Indian Institute of Science
Bangalore 560 012, India

A. SELVARAJAN