



MTT-S Society News

Report From MTT-S Kerala Chapter and IIST Student Chapter

■ Chinmoy Saha

The IEEE Microwave Theory and Techniques Society (MTT-S) Kerala Chapter and the MTT-S Student Branch at the Indian Institute of Space Science and Technology (IIST) were inaugurated at IIST, Trivandrum, India, on 29 July 2019 (Figure 1). Those attending included MTT-S Region 10 Coordinator Dr. Shibhan Koul (Centre for Applied Research in Electronics, IIT Delhi, India) and MTT-S Administrative Committee Member Dr. Goutam Chattopadhyay (Jet Propulsion Laboratory, Pasadena, California, United States). Dr. B.S. Manoj (head of the Department of Avionics, IIST) and Dr. Chinmoy Saha (associate professor, Department of Avionics, IIST) delivered the welcome addresses, followed by a presidential address by Dr. V.K. Dadhwal, director of IIST. Dr. Chattopadhyay inaugurated the MTT-S Student Branch, while the MTT-S Kerala Chapter was inaugurated by Prof. Koul.

To mark the joint inauguration, symbolic plaques were presented by Dr.



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Chattopadhyay to Prof. Manoj (IIST Student Branch) and by Prof. S.K. Koul to Dr. Saha (MTT-S Kerala Chapter). Dr. Saha and Dr. Manoj delivered short speeches about the importance and benefits of IEEE Societies in colleges. These were followed by a cake-cutting ceremony to celebrate the occasion. Prof. Kuruvilla Joseph (dean of student activities at IIST), Dr. D.C. Pande (Defense Research and Development Organization, India), Prof. J.Y. Siddiqui [Institute of Radio Physics and Electronics

(IRPE), University of Calcutta, India], and Prof. Ashik Paul (IRPE, University of Calcutta) expressed their good wishes on the occasion.

The inauguration was followed by a one-day Workshop on Microwave Theory, Techniques, and Applications, a joint initiative of the MTT-S Kerala Chapter and MTT-S IIST Student Branch. The workshop featured five eminent speakers: Dr. Chattopadhyay, Prof. Koul, Dr. Pande, Prof. Siddiqui, and Prof. Paul.

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Figure 1. Images from the inaugural ceremony and the follow-up Workshop on Microwave Theory, Techniques, and Applications.

The highly successful event was attended by 95 participants comprising professional MTT-S members; scientists from the Indian Space

Research Organisation; and academicians, students, and faculty members from various colleges in India's Kerala state. The workshop included

productive interactions among attendees and lecturers, and feedback was very positive.



Book/Software Reviews *(continued from page 115)*

covered with respect to impact on data and algorithms. Numerical methods, such as QR factorization, singular value decomposition, least squares fitting, Monte Carlo simulation, and maximum entropy methods, are all discussed, as are multiple input/multiple output and Kalman filters. This book also explores newer areas, such as the use of multiple-signal classification for direction of arrival estimation, wavelets for compression, chaotic Monte Carlo simulation to increase efficiency, and

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Cramér–Rao bound and approximate maximum likelihood methods for beamforming.

Prof. Yao's *Signal Processing Algorithms* is a compact book with broad coverage and an enjoyable read, making it a nice addition to a rather crowded shelf of books in this field. I expect it would be good for a course, although the instructor will need to supply more problems to solve. If you are teaching a course, have a look at this book. And, if you want an overview of signal processing in communications and radar systems, this book is a great start.

