



Indian Statistical Institute

Director's Report

6th Meeting of the Council (2016-2018)
November 15, 2017
(edited version)



Honors/Achievements/Recognitions

- ▶ Siva Athreya invited to Chair the 10th World Congress in Probability and Statistics
 - ▶ Seoul, August 2020.
 - ▶ jointly sponsored by Bernoulli Society and the Institute of Mathematical Statistics
 - ▶ quadrennial joint meeting
 - ▶ Important in the fields of statistics and probability and their applications
 - ▶ Seoul in 2020, in the week of 17th-21st August.
- ▶ Debasis Misra, Economics and Planning Unit, ISI Delhi won the prestigious Social Choice and Welfare Prize for 2018.
- ▶ Aparajita Khan (SRF, MIU) and Pradipta Maji (MIU):
 - ▶ Best Paper award
 - ▶ Principal Subspace Updation for Integrative Clustering of Multimodal Omics Data
 - ▶ Third Int. Conf. on Computational Intelligence and Networks
KIIT, Bhubaneshwar, 28th October 2017
- ▶ Ashis Sengupta Elected as Member of the Intl. Stat. Inst.
- ▶ Ritabrata Munshi



Honors/Achievements/Recognitions

- ▶ Conference in honor of Prof. Rajendra Bhatia
 - ▶ 30 Nov - 2 Dec, 2017
 - ▶ Venue
 - ▶ Department of Mathematics
 - ▶ Dr. B. R. Ambedkar National Institute of Technology, Jalandhar

- ▶ Sreoshi Banerjee, ERU
 - ▶ Selected to visit Japan
 - ▶ Jenesys program - Japan's Friendship Ties Programs
 - ▶ Japan-East Asia Network of Exchange for Students and Youths

MATRIX AND FUNCTIONAL ANALYSIS
CONFERENCE IN HONOUR OF PROFESSOR RAJENDRA BHATIA ON HIS SIXTY FIFTH BIRTHDAY



Updates

International Visitors

- ▶ Application under Fulbright Specialist Program accepted
 - ▶ Visit by Prof. Gennady Samorodnitsky from Cornell University
 - ▶ probability theory and in its various applications
 - ▶ Led by
 - ▶ Arijit Chakrabarty, SMUK
 - ▶ Parthanil Roy, SMUB
- ▶ A team of Russian scientists to visit ISI Chennai in December
 - ▶ Saminathan Ponnusamy
 - ▶ MEA request
 - ▶ Part of 70 years of diplomatic ties between India and Russia
 - April 13, 2017 till April 12, 2018

First GIAN Program Concluded

- ▶ Prof. Blaz Zupan, University of Ljubljana
 - ▶ *Interactive and Visual Approaches to Data Mining*
 - ▶ October 30-Nov 03, 2017
 - ▶ 41 registered participants
 - ▶ Organizers
 - ▶ S Bandyopadhyay
 - ▶ SS Ray
 - ▶ S. Das
 - ▶ <http://www.isical.ac.in/~scc/GIAN-IVADM/>



Sponsored Projects/Consultancy

- ▶ Conclusion of International Passenger Survey conducted by Ministry of Tourism
 - ▶ once in every 5 years
 - ▶ obtaining the following information from international tourists
 - ▶ the profile
 - ▶ expenditure pattern
 - ▶ motivational factor
 - ▶ satisfaction level etc.
 - ▶ explore the possibility of alternative arrangements for capturing feedback
 - ▶ Led by: Ashis Sengupta
- ▶ Critical Appraisal and Methodological Recommendations on TV-Viewership Study, 2017-2018
 - ▶ BROADCAST AUDIENCE RESEARCH COUNCIL (BARC), Mumbai,
 - ▶ engaged in designing, commissioning, supervising and owning India's audience measurement system,
 - ▶ ISI to help in review the process of existing panel design of data collection
 - ▶ statistical and research rigour
 - ▶ For understanding the nature of TV viewership
 - ▶ used for computing TRPs (Television Rating Points),
 - ▶ Led by: Ashis Sengupta, Samarjit Das, Prasun Das

Sponsored Projects/Consultancy

contd...

- ▶ MoU with PwC (3 years)
 - ▶ Collaborative Research Project
 - ▶ Consultancy Project
 - ▶ Sponsored Postgraduate and Doctoral Program
 - ▶ Training Programs and Short Term Courses
 - ▶ Led by Utpal Garain
- ▶ MoU with AxisCades
 - ▶ Statistical Analysis of Big Data
 - ▶ Aerospace Failure Data
 - ▶ Led by Prasun Das
- ▶ Dept. of Horticulture, Govt. of West Bengal
 - ▶ Preparation of schedule to collect data
 - Beneficiaries and non-beneficiaries of Horticulture Development in Paschimanchal
 - Analysis of data and providing a report on the effect of the programs
 - ▶ Led by Manoranjan Pal and Haricharan Behera

Projects

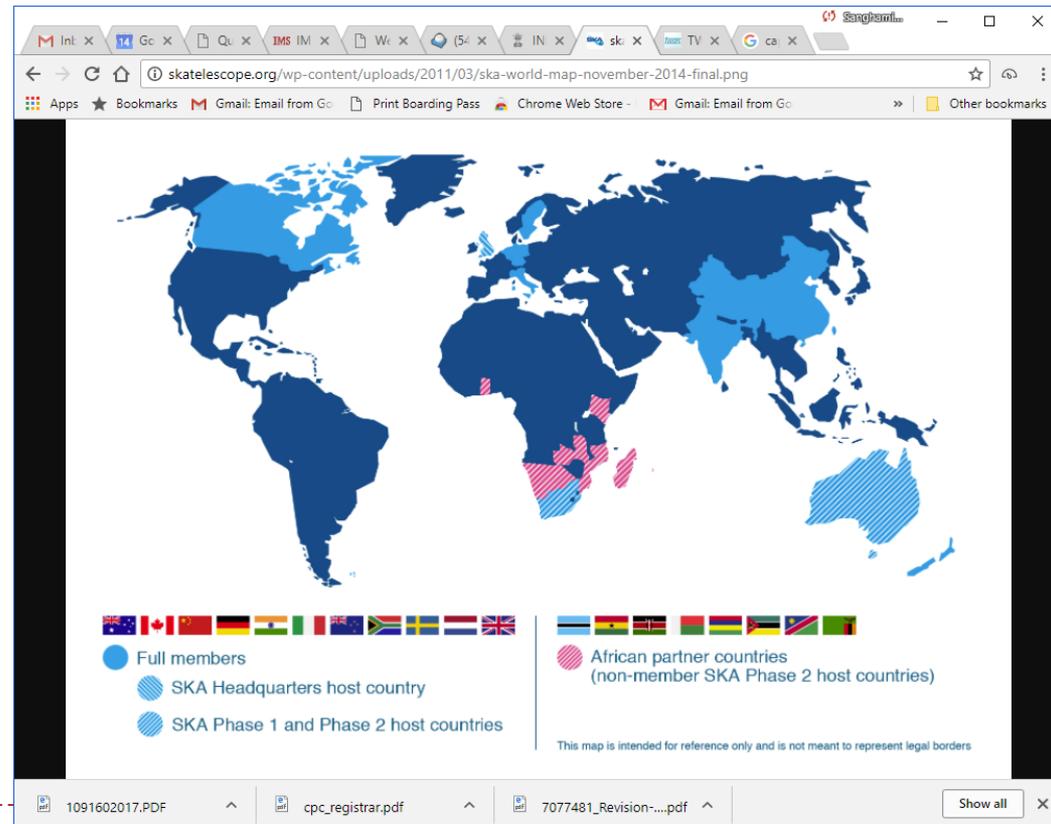
contd...

- ▶ Farmers' behaviour towards accepting or rejecting new technology: SRI
 - ▶ System of Rice Intensification
 - ▶ How promising is SRI?
 - ▶ How receptive are farmers to SRI?
 - ▶ Sample village selection: 30 villages in Debra Block (458 villages in total), West Medinipur district, West Bengal
 - ▶ farmers have been slow to adopt SRI as a whole
 - ▶ quicker to adopt some components of SRI I
 - single seeding transplanting,
 - younger seedlings (12-15 Days),
 - wider spacing, and
 - more use of organic manure
 - ▶ Led by: Pabitra Banik, AERU and Nobuhiko Fuwa, Waseda University, Tokyo, Japan



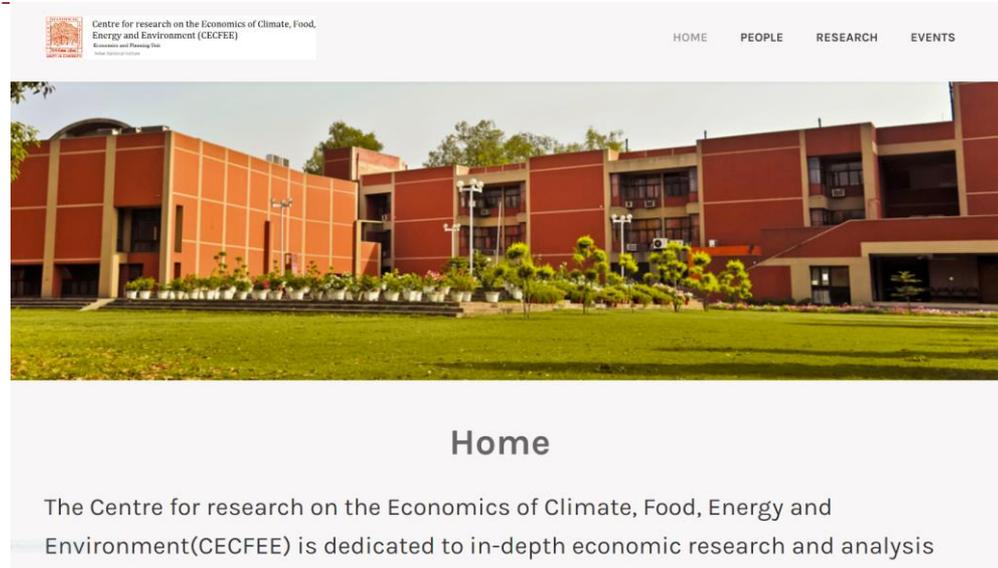
Some Recent Initiatives

- ▶ Square Kilometer Array Initiative (800 M Euros) – to build the largest radio telescope
 - ▶ jointly taken up by DAE-India with 8 other countries
 - ▶ ISI is a Regular Member Institute (along with NCRA-TIFR, IUCAA, IIA etc) of SKA-India Consortium
 - ▶ to build worlds largest radio telescope: Square Kilometre Array
 - ▶ Led by Dr. Supratik Pal, PAMU
 - ▶ SKA-India Council
 - member of Executive Council
 - member of Science Committee



Some More Initiatives

- ▶ Centre for research on the Economics of Climate, Food, Energy and Environment (CECFEE), ISI Delhi
 - ▶ Part of Environment for Development (EFD) Network
 - ▶ University of Gothenburg, Sweden
 - ▶ Financial support provided by the Swedish International Development Cooperation Agency (SIDA)
 - ▶ Two ongoing projects (to be complete in December 2018) –
 - ▶ Impact of electric stoves on air pollution and women's welfare in rural India
 - ▶ Decentralized management of irrigation - ensure efficient use of water
 - ▶ 3rd Annual workshop
 - ▶ Udaipur (17-18 Nov)
 - ▶ Led by E. Somanathan



Workshop Organized

- ▶ First Six Sigma Green Belt Workshop in Giridih
 - ▶ For the first time in Giridih
 - ▶ Fully self-sustaining event
 - ▶ Number of participants: 10
 - ▶ Led by: Somnath Ray and Ashis Chakraborty
 - ▶ Media attention

सांख्यिकी संस्थान में प्रशिक्षण शुरू

गिरिडीह। सिक्स सिगमा ग्रीन बेल्ट प्रशिक्षण कार्यक्रम के तहत सोमवार को गिरिडीह सांख्यिकी संस्थान में पांच दिवसीय प्रशिक्षण की शुरुआत की गई। प्रशिक्षण का समापन 04 नवंबर को होगा। प्रशिक्षण में झारखंड एवं बंगाल से आये हुए फैकल्टी ने बताया कि सिक्स सिगमा एक संगठित कार्यप्रणाली है।

जो किसी भी संगठन या संस्था के गुणवत्ता एवं उससे जुड़े जटिल

समस्याओं को पहचान कर सही तरीके से आंके : डॉ. चक्रवर्ती

आईएसआई में तीन दिवसीय सिक्स सिगमा ग्रीन बेल्ट पर कार्यशाला

सिटी रिपोर्टर | गिरिडीह

भारतीय सांख्यिकी संस्थान गिरिडीह की ओर से सोमवार को संस्थान कार्यालय स्थित सेमिनार कक्ष में तीन दिवसीय सिक्स सिगमा ग्रीन बेल्ट कार्यशाला का आयोजन किया गया। प्रशिक्षण में जहां संस्थान के कोलकाता और बंगलुरु के व्याख्याओं ने हिस्सा लिया। वहीं प्रशिक्षण में देश के कई नामचीन कंपनी के प्रतिनिधि भी शामिल हुए। प्रशिक्षण का उद्देश्य प्रतिनिधियों को कंपनी के उत्पादन की समस्याओं से निकालते हुए गुणवत्तापूर्ण बगैर नुकसान के उत्पादन की जानकारी देनी थी। कोलकाता के आईएसआई संस्थान से आए डॉ. आशीष चक्रवर्ती ने बताया कि उद्योग से लेकर स्वास्थ्य व बीमा क्षेत्र में बाजारवाद हावी है। साथ ही प्रतिस्पर्धा के दौर में सिक्स-सिगमा मिस्टम आंकड़ों को लेकर काम करने की जानकारी



उपस्थित कंपनी के प्रतिनिधि।

आकलन कर विश्लेषण करते हुए सुधार लाना। डॉ. चक्रवर्ती ने कहा कि इन पांच प्रक्रियाओं से अवगत होने के बाद कंपनी में कार्य करने वाले प्रतिनिधि सही तरीके से गुणवत्ता के साथ कंपनी के उत्पादन में सुधार ला सकते हैं। डॉ. चक्रवर्ती ने यह भी कहा कि सिगमा मिस्टम की पांचों प्रक्रियाएं हर उन क्षेत्रों में लागू होती हैं। जिसमें बीमा, स्वास्थ्य, उद्योग

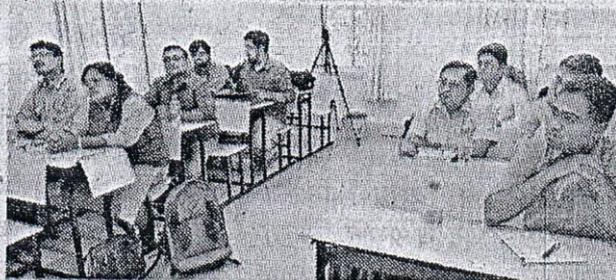


कार्यशाला को संबोधित करते लेक्चरर।

ओर कोलकाता से आए डॉ. अरूप

पांच दिवसीय प्रशिक्षण शुरू

गिरिडीह. सिक्स सिगमा ग्रीन बेल्ट प्रशिक्षण कार्यक्रम के तहत सोमवार को गिरिडीह सांख्यिकी संस्थान में पांच दिवसीय प्रशिक्षण की शुरुआत की गयी.



प्रशिक्षण प्राप्त करते प्रशिक्षणार्थी.

▶▶ प्रभात खबर

प्रशिक्षण में झारखंड एवं बंगाल से आये हुए फैकल्टी ने बताया कि सिक्स सिगमा एक संगठित कार्यप्रणाली है जो किसी भी संगठन या संस्था की गुणवत्ता एवं उससे जुड़ी जटिल समस्याओं का उत्तम समाधान करता है. बताया कि वर्तमान प्रतियोगिता भरे

Outreach Programs

▶ Tezpur (Nityananda Sarkar)

- ▶ Darrang College, Tezpur, Assam
- ▶ Kendriya Vidyalaya, Lokra, Dighali Gaon, Assam
- ▶ Nowgong College, Nagaon, Assam
- ▶ Anandaram Dhekial Phookan College



More Outreach Programs

- ▶ MCKV, Liluah
 - ▶ 50 students of Classes XI and XII
- ▶ NIT Raipur
 - ▶ 56 students of B. Tech final year
- ▶ Led by Prasun Das



Ongoing Activities

- ▶ Recruitment/promotion processes are on
 - ▶ Faculty
 - ▶ Non-faculty

- ▶ Committee made to plan the process of post creation across the institute
 - ▶ Identification of requirements
 - ▶ Justification
 - ▶ Pursuing it with the Govt.

Institution of Eminence

- ▶ UGC (Declaration of Government Educational Institutions as Institutions of Eminence) 2017
- ▶ Maximum support of Rs. 1000 Cr over a 5-year period
 - ▶ Over and above the regular grant
- ▶ Additional flexibility of operations
- ▶ Initiative started in ISI
 - ▶ Core task Force would be taking inputs from all divisions

Thank you!