



**Indian Statistical Institute**  
**Director's Report**  
**4th Meeting of the Council (2018-2020)**  
**June 14, 2019**



# Updates - New Faculty Joining the Institute

Name	Position	Department	Centre	Ph.D. from
Partha Sarathi Mukherjee	Associate Professor	I.S.R.U.	Kolkata	Univ. of Minnesota
Kushal Banik Chowdhury	Assistant Professor Gr.I	S.E.R.U.	Tezpur	Indian Statistical Institute
Darpa Saurav Jyethi	Assistant Professor Gr.I	T.A.S.U.	Tezpur	Jawaharlal Nehru University
Sanjit Maitra	Assistant Professor Gr.I	T.A.S.U.	Tezpur	Rochester Inst. of Technology
Saurabh Trivedi	Assistant Professor Gr.I	T.A.S.U.	Tezpur	Univ. d'Aix-Marseille, France
Soumendu Sunder Mukherjee	INSPIRE Assistant Professor Gr.II (Contractual)	I.S.R.U.	Kolkata	Univ. of California, Berkeley

# Updates

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- ▶ Deans Office conducts ISI Admissions successfully
  - ▶ Exam had to be preponed to May 5 due to elections
  - ▶ MCQ test was opened to challenge
  - ▶ Interviews are now scheduled
  - ▶ Classes to start in mid July
  - ▶ Note of thanks to
    - ▶ Dean, all Associate Deans/Students Incharge, Dean's office, and
    - ▶ all colleagues for their cooperation and help

# Updates

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- ▶ 100 Years of Jallianwala Bagh Massacre
  - ▶ 13<sup>th</sup> April 2019
  - ▶ ISI Library marked the black day in Indian history with an exhibit
- ▶ Library Division organized
  - ▶ National Seminar on Recent Advances in Museum Management
  - ▶ March 26, 2019

# Sanjukta Chakraborty, SRF, EAVP, Raymonde Rivoallan fund Finds a huge whale fossil found from Kutch

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# Recognitions/Achievements

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- ▶ K. B. Sinha, Former Director and Emeritus Professor, ISI
  - ▶ Currently with JNCASR
  - ▶ Srinivasa Ramanujan Medal, 2019, INSA
- ▶ Souvik Dhara, MStat 2014
  - ▶ Awarded Stieltjes Prize for Best PhD Thesis of 2018 in Netherlands
  - ▶ Critical Percolation of Random Networks with Prescribed Degrees
  - ▶ Eindhoven University of Technology
- ▶ Siva Athreya, ISIBC
  - ▶ Appointed Satish Dhawan visiting Professor at the ECE Department of IISc (May-June 2019)
- ▶ Ashish Ghosh, ISIK
  - ▶ IEEE-GRSS Regional Leader Award IEEE, 2019
- ▶ Abhijit Patra, SRF, GSU, ISIK
  - ▶ Best Poster Award at Rock deformation related Conference, Switzerland

# Recognitions/Achievements

## ASIAN SCIENTIST

March 4, 2019 [Press Release](#) By [Asian Scientist Newsroom](#)

### 2019 Edition Of Asian Scientist 100 Announced

Each year, *Asian Scientist Magazine* highlights 100 outstanding thinkers and innovators from Asia who are pushing the envelope with their research.



FOR IMMEDIATE RELEASE

[9/1pr/AsianScientist \(Mar. 4, 2019\)](#) – Asia has risen rapidly to become a vibrant hub of cutting-edge research and development, driven by talented scientists who continue to push the

#### Annex A – Scientists featured on the Asian Scientist 100 (2019 edition)

1. Tamal Lata Aditya
2. Amitha Bentota
3. Soichi Arai
4. Takeshi Horie
5. Artemio Salazar
6. Xu Minggang
7. Zhang Dabing
8. Stuart Cook
9. Christiani Jeyakumar Henry
10. [Tasuku Honjo](#)
30. Chularat Wattanakit
31. Ricardo Balog
32. Sanghamitra Bandyopadhyay
33. Tseng Yu-Chee
34. [James C. C. Chan](#)
35. Elmer Dadios
36. He Jinliang
37. Hwang Cheol-Ju
38. [Park Nam-Gyu](#)
39. Amitava Roy
40. Surana Thiemiarius
86. Tian Yongjun
87. Wang Jianfang
88. [Akira Yoshino](#)
89. Masaki Kashiwara
90. Shigeo Kusuoka
91. [Ritabrata Munshi](#)
92. [Hasibun Naher](#)
93. Oh Hee
94. Wu Yirong

# Important Contributions

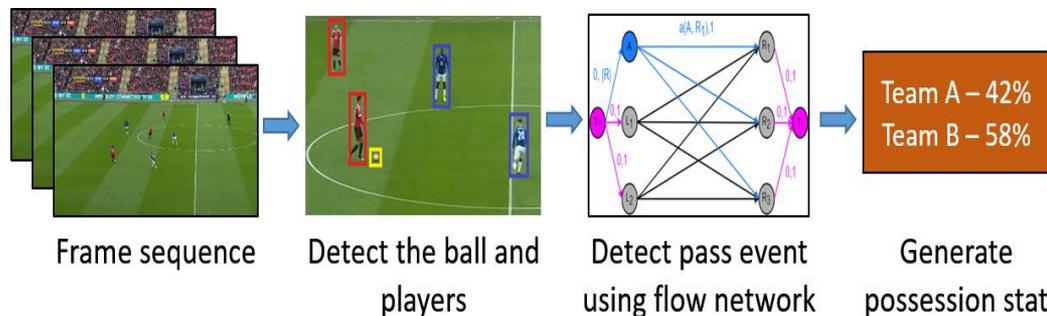
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## ▶ Dipti Prasad Mukherjee

- ▶ Patented algorithm from ISI is part of projects of TCS retail vertical: successfully piloted in a leading retail store in Australia



- ▶ Prestigious CVPR 2019 Sports workshop paper to automatically generate ball possession stat



# Important Publications

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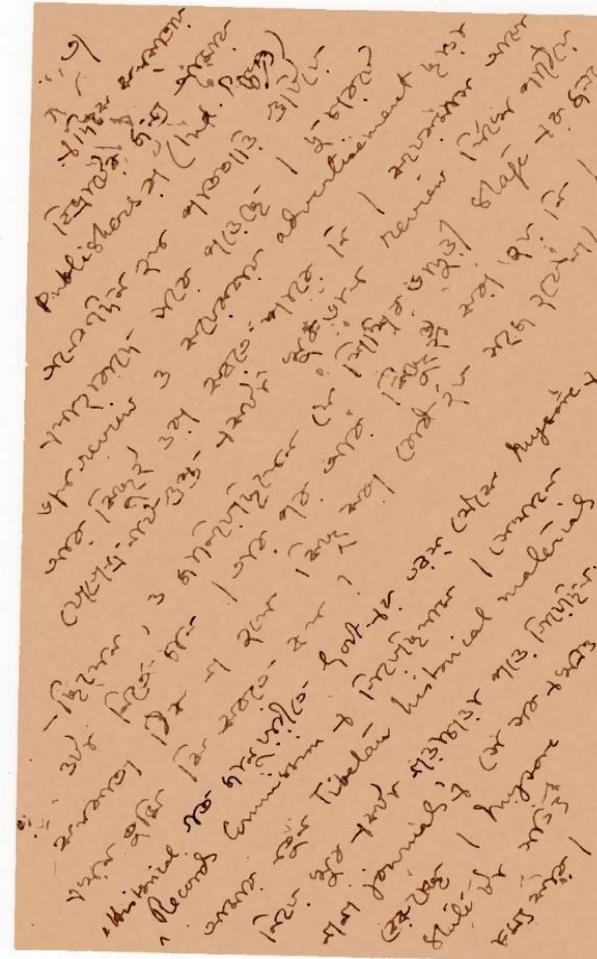
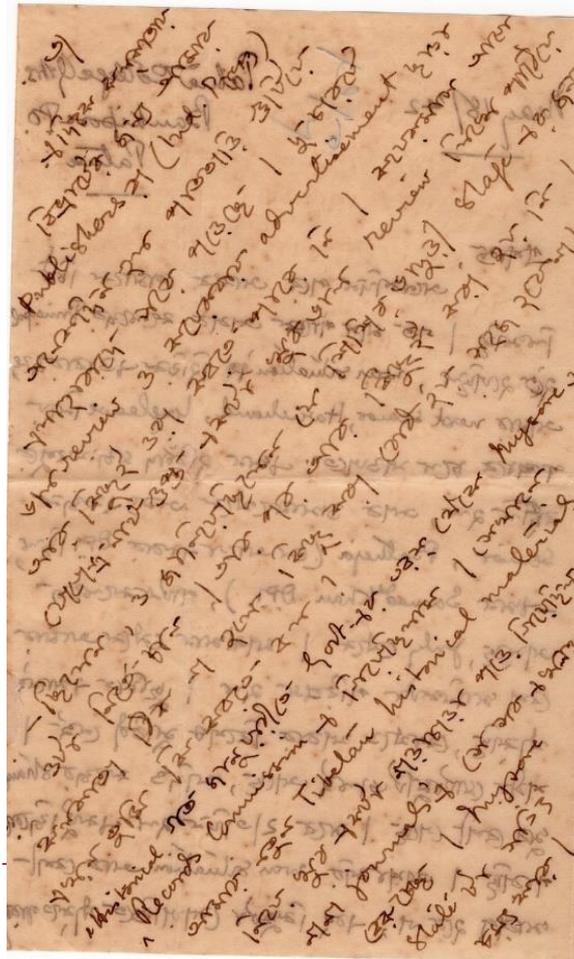
- ▶ Chittaranjan Hens, INSPIRE Faculty, PAMU
  - ▶ Spatiotemporal signal propagation in complex networks,
  - ▶ Chittaranjan Hens, Uzi Harush, Simi Haber, Reuven Cohen, Baruch Barzel
  - ▶ Nature Physics, 15, 403–412 (2019)
  - ▶ Impact Factor: 22.806 (2016)
- ▶ M. Delampady, ISIBC & collaborators
  - ▶ A Spatially Explicit Capture–Recapture Model for Partially Identified Individuals When Trap Detection Rate Is Less than One
  - ▶ Calcutta Statistical Association Bulletin, 2019
  - ▶ This paper addresses the question of 'how to reliably estimate the population size when some of the individuals in the data are not fully identified (trap camera does not photograph both flanks of the tiger)'.
- ▶ Jaydeb Sarkar, ISIBC
  - ▶ Linear dynamics in reproducing Kernel Hilbert spaces (with M.Aneesh),
  - ▶ Bulletin des Sciences Mathématiques.



# Important Publications

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- ▶ B. Chanda, ISIK & P Saha
  - ▶ Restoration of old letters from [P.C.Mahalanobis Memorial Museum & Archives](#)
  - ▶ presented at TENSYP2019



# Funded Project

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- ▶ **ACMU, ISIK**
  - ▶ under IMPRINT-II scheme to work with IIT Kharagpur, IIT Kanpur
  - ▶ 1.35 Crores
- ▶ **Ashish Ghosh, MIU, ISIK**
  - ▶ Cluster project under data science research, DST
  - ▶ Machine Learning in Data Science , funded by DST
- ▶ **GSU, ISIK**
  - ▶ Systematics, Palaeobiogeography and change in diversity of Tertiary Gastropoda of Kutch, Gujarat
- ▶ **B. S. Dayasagar, ISIBC**
  - ▶ Analysis of Optical and Radar Remote Sensing Images for Dynamic Earth Process Monitoring“, 2019-2022
  - ▶ Indo-Trento Program on Advanced Research

# Funded Project

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- ▶ B. Chanda, ISIK
  - ▶ Digital restoration and reconstruction of Indian heritage artifacts with focus on murals, manuscripts and structures using big data technology
  - ▶ under the “Indian Digital in Digital Space”

# Conference/Workshops

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- Anita Naolekar and Siva Athreya, ISIBC
  - Second edition of Summer School for Women in Mathematics and Statistics
  - May 13 to May 24th, 2019
  - Follow up school organized in ISIBC this month
  - Inspire women to take up mathematics for higher studies



# Conference/Workshops

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- ▶ Dibakar Ghosh and Supratik Pal, PAMU, ISIK
  - ▶ School on Programming with Python: Applications to Cosmology and Nonlinear Dynamics
  - ▶ March 18-23, 2019
  - ▶ 50 Masters and PhD students



# Conference/Workshops

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- ▶ Samik Basu, ISIK
  - ▶ Advanced Instructional School (AIS) on *Homotopy Theory*, May 13-25, 2019
  - ▶ for PhD students working in Geometry and Topology
  - ▶ National Center for Mathematics.  
<https://www.atmschools.org/school/2019/AIS/ht>

# Visitors to ISI

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- ▶ **Marta Prekopova and Juraj Janocko**
  - ▶ Institute of Geosciences, Faculty of Mining, Ecology, Process control and Geotechnologies Technical University of Košice;
  - ▶ 7 January to 21 January 2019
- ▶ **Iyra Maharaj**
  - ▶ University of Cape Town, UCT · Department of Biological Sciences
- ▶ **Kierstin Rosenbach,**
  - ▶ University of Michigan (Ann Arbor, Michigan, USA)
  - ▶ February 2nd to 8th 2019
- ▶ **Dipankar Saha with the West Bengal Pollution Control Board**
  - ▶ Clean Air for All: A Global Mission and Local Initiative, June 6, 2019
  - ▶ To commemorate world environment day

# Visits/Talks by ISI Faculty

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## ▶ Jaydeb Sarkar, ISIBC

- ▶ BitDefender Visiting Professor, "Simion Stoilow" Institute of Mathematics of the Romanian Academy, Bucharest, Romania, May 2019.

## ▶ Mathew Joseph, ISIBC

- ▶ Talk at the Spring Probability Workshop at Academia Sinica, Taipei from May 20-22.
- ▶ Abu-Dhabi- India- Shanghai-Singapore probability conference in National University of Singapore from May 26-29

## ▶ B. S. Daya Sagar, ISIBC

- ▶ "Frank Harary Endowment Lecture"
- ▶ 8th June 2019 at the International Conference on Discrete Mathematics 2019, Christ University, Bangalore

# New Initiatives

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- ▶ MOUs signed, June 3, 2019
  - ▶ Lal Bahadur Shastri National Academy
  - ▶ Capacity building and policy research projects



# New Initiatives

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- ▶ MOUs Signed
  - ▶ ICIMOD, Nepal, ISI Delhi
    - ▶ June 12, 2019
  - ▶ Tata Consultancy Services
    - ▶ April 1, 2019
  - ▶ University of Reading
    - ▶ June 12, 2019
  - ▶ Ramkrishna Mission Vidya Mandir
    - ▶ April 26, 2019
  - ▶ University of Technology, Sydney
    - ▶ March 2019
  - ▶ NITI Aayog
    - ▶ May 2019

# Upcoming Events

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- ▶ **Summer School of Internet of Things**
  - ▶ In Collaboration with ICTP, Italy
  - ▶ Speaker: Dr. Marco Zennaro
  - ▶ Organized by: B. Chanda and S. Ruj, ISIK
  - ▶ July 22-25, 2019
- ▶ **National Statistics Day**
  - ▶ June 29, 2019
  - ▶ Jointly organized by MoSPI and ISI in Vigyan Bhavan, New Delhi

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Thank you!