Two-Day International Webinar on
Recent Advances in Environmental Research
24-25th September, 2020
Inaugurated by
Prof. Chanchal Chaudhuri
Hon’ble Vice Chancellor, University of Gour Banga

Invited Speakers

Recent Geoinformatics Advancements for Environmental Studies and Management Strategies

Spatial Intelligence for Natural Hazard Assessment

Geoinformatics for Contemporary Environmental Issues

Prof. & Acad. Yuei-An Liou
National Central University, Taiwan

Landscape Sustainability: A New Dimension in Environmental Research

Prof. Biswajeet Pradhan
University of Technology Sydney, Australia

Water Resource Challenges in the Urbanized World

Prof. Pawan Kumar Joshi
Jawaharlal Nehru University, New Delhi, India

Climate Change Vulnerability Assessment in Indian Himalaya

Prof. Malay Mukhopadhyay
Visva Bharati, West Bengal, India

Lime Mud-A Partial Replacement of Conventional Material for Brick Making

Prof. Atiqur Rahman
Jamia Millia Islamia, Delhi, India

Ecological, Economic and Cultural Perspectives of Wetland: The Case of an Alluvial Tract in West Bengal

Dr. Rajiv Pandey
Indian Council of Forest Research and Education (ICFRE), Derhadun, India

Earth observation of Water Resources in Semi-Arid Regions

Prof. Raju Sarkar
Delhi Technological University, Delhi, India

Prof. Narayan Chandra Jana
The University of Burdwan, West Bengal, India

Dr. Javed Mallick
King Khalid University, Kingdom of Saudi Arabia

Organised by
Department of Geography
University of Gour Banga, Mokdumpur, Malda, W.B., India
Programme schedule
of
A two-day International Webinar
Organized by
Department of Geography
University of Gour Banga
On
24-25th September, 2020

Day-1 (24.09.2020)
Inaugural Session (10:00 am – 10:45 am)

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Inaugural Session</th>
</tr>
</thead>
</table>
| 24.09.2020 | 10:00 am – 10:45 am | Welcome Address by Convener  
Inaugural Address by Hon’ble Vice Chancellor, UGB  
Special speech by Respected Registrar, UGB  
Vote of thanks |

Day-1 (24.09.2020)
Plenary Session-1 (11:00 am -12:10 pm)

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Resource Person</th>
<th>Topic</th>
</tr>
</thead>
</table>
| 24.09.2020 | 11:00 am - 11:35am | Distinguished Professor Biswajeet Pradhan  
Director, Centre for Advanced Modelling and Geospatial Information Systems (CAMGIS), School of Information, Systems & Modelling  
Faculty of Engineering and IT  
University of Technology Sydney, Australia | Spatial Intelligence for Natural Hazard Assessment |
|           | 11:35 am - 12:10pm | Professor Pawan Kumar Joshi  
Chairperson – Special Centre for Disaster Research  
Professor – School of Environmental Sciences  
Jawaharlal Nehru University, New Delhi  
110 067 | Geoinformatics for Contemporary Environmental Issues |

Plenary Session-2 (12:15 pm-1:30 pm)

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Resource Person</th>
<th>Topic</th>
</tr>
</thead>
</table>
| 24.09.2020 | 12:15 pm - 12:45 | Prof. Malay Mukhopadhyay  
Professor, Department of Geography | Landscape Sustainability: A New Dimension in |
<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
<th>Presenter</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:45 – 1:15 pm</td>
<td><strong>Plenary Session-3 (2:00pm-2:35pm)</strong>&lt;br&gt;Launch break (1:15pm-2:00pm)</td>
<td><strong>Professor Atiqur Rahman</strong>&lt;br&gt;Professor, Urban Environmental &amp; Remote Sensing Division&lt;br&gt;Department of Geography, Faculty of Natural Sciences&lt;br&gt;Jamia Millia Islamia, New Delhi-25 (India)</td>
<td>Environmental Research&lt;br&gt;Water Resource Challenges in the Urbanized World</td>
</tr>
<tr>
<td>2:00pm-2:35pm</td>
<td><strong>Technical Session-1 (2:40 pm to 4:30 pm)</strong>&lt;br&gt;Plenary Session-3&lt;br&gt;Launch break</td>
<td><strong>Prof. Narayan Chandra Jana</strong>&lt;br&gt;Professor &amp; Former Head, Department of Geography, The University of Burdwan, West Bengal, India&lt;br&gt;Coordinator, M.Sc. in Geo-spatial Science, The University of Burdwan</td>
<td>Ecological, Economic and Cultural Perspectives of Wetland: The Case of an Alluvial Tract in West Bengal</td>
</tr>
</tbody>
</table>

### Day-1 (24.09.2020)

#### Details of Technical Sessions

**Date:** 24.09.2020

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Title of the Paper</th>
<th>Name of the presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Quantification the impact of urban greenspace pattern to land surface temperature: Evidence from an urban agglomeration of eastern India</td>
<td>Ipsita Dutta and Dr. Arijit Das</td>
</tr>
<tr>
<td>2</td>
<td>Hazards and Socio-economic Development of the Canning Sub-Division, Sundarban, West Bengal, India</td>
<td>Sanat Kumar Purkait</td>
</tr>
<tr>
<td>3</td>
<td>Effect of lockdown air quality in urban areas in Some Major Cities in West Bengal.</td>
<td>Madhurima Dutta and Swadesh Pal</td>
</tr>
<tr>
<td>4</td>
<td>Prioritizing Peri-Urban Wetland’s Ecosystem Services for Sustainable Development: A Study on Chatra Wetland, English Bazar City, India</td>
<td>Tirthankar Basu and Dr. Arijit Das</td>
</tr>
<tr>
<td>5</td>
<td>Prediction of Spatial Gully Erosion Susceptibility using Machine Learning Classifiers: a study on Jainti River basin of Jharkhand, India</td>
<td>TusarKanti Hembram and Sunil Saha</td>
</tr>
<tr>
<td>6</td>
<td>Impact of Urbanization on Environment in North 24 Parganas District, West Bengal</td>
<td>Dr. Chandan Sarkar</td>
</tr>
</tbody>
</table>
7. Flood Hazard and Mitigation Measurement: A Case Study of Atreyee River Basin, Dakshin Dinajpur, West Bengal, India
   Dr. Beauty Das

8. Modelling the landslide susceptibility using hybrid ensemble machine learning algorithms
   Anik Saha and Dr. Sunil Saha

---

**Parallel: Technical Session-2 (2:40 pm to 4:30 pm)**

**Google Meet link:** https://meet.google.com/ohy-cvnv-kan

<table>
<thead>
<tr>
<th>Chairperson</th>
<th>Prof. Gopal Chandra Debnath</th>
</tr>
</thead>
<tbody>
<tr>
<td>Co-chair Person</td>
<td>Dr. Prolay Mondal</td>
</tr>
<tr>
<td>Rapporteur:</td>
<td>Susanta Mahato</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Title of the Paper</th>
<th>Name of the presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Acceptance of BANCS model for predicting stream bank erosion potential and rate in the left bank of Ganga river of Diara region in Malda district, North East India</td>
<td>Samrat Majumdar and Sujit Mandal</td>
</tr>
<tr>
<td>2</td>
<td>Evaluation of Prophet model for predicting meteorological drought events in a Semi-arid region of India</td>
<td>Jayanta Das</td>
</tr>
<tr>
<td>3</td>
<td>Agricultural Workers’ Cardiac Performance: Possible Implications of Climate Change</td>
<td>Ayan Chatterjee, Sandipan Chatterjee, Neepa Banerjee, Shankarashis Mukherjee</td>
</tr>
<tr>
<td>4</td>
<td>One Step Closer to the End: Global Climate Change</td>
<td>Sushant Kumar Lal</td>
</tr>
<tr>
<td>5</td>
<td>Flood Water Harvesting A Model Presentation to Utilize Flood Water of Brahmaputra River</td>
<td>Tushar Das</td>
</tr>
<tr>
<td>7</td>
<td>Direct And Spill-Over Effects Of Urbanization On Air Quality In Asansol-Durgapur Development Region, India</td>
<td>Deblina Choudhury and Dr. Arijit Das</td>
</tr>
<tr>
<td>8</td>
<td>Analysis of air pollution in industrial areas and its impact on the respiratory health of workers: a case study of NCT Delhi</td>
<td>Neha Parveen, Lubna Siddiqui, Md Nawaj Sarif, Md Safikul Islam, Nazreen Khanam, S K Muhibbul, Shanshah Khan</td>
</tr>
</tbody>
</table>

---

**Day-2 (25.09.2020)**

**Plenary Session-4**

**Google Meet link:** https://meet.google.com/wfy-emya-ohv

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Resource Person</th>
<th>Topic</th>
</tr>
</thead>
</table>
| 25.09.2020 | 10:00 am - 10:35 am | Prof. Yuei-An-Liou  
Distinguished Professor,  
Center for Space and Remote Sensing Research (CSRSR), | Recent Geoinformatics Advancements for Environmental Studies and Management |
### Day-2 (25.09.2020)

#### Details of Technical Sessions

**Technical Session-3 (12:20 pm to 1:30 pm)**

**Google Meet link:** [https://meet.google.com/skx-jqto-zce](https://meet.google.com/skx-jqto-zce)

<table>
<thead>
<tr>
<th>Chairperson</th>
<th>Prof. Sujit Mandal</th>
<th>Professor, Department of Geography, Diamond Harbour Women’s University, Diamond Harbour, WB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Co-chair Person</td>
<td>Mr. Sasanka Ghosh</td>
<td>Assistant Professor, Department of Geography, Kazi Nazrul University, Asansol, West Bengal, India</td>
</tr>
<tr>
<td>Rapporteur</td>
<td>Tirthankar Basu</td>
<td>Research scholar, Department of Geography, University of Gour Banga, Malda, WB</td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Title of the Paper</td>
<td>Name of the presenter</td>
</tr>
<tr>
<td>1</td>
<td>Spatio-temporal precipitation trends analysis during 1901-2019 over West Bengal state, India</td>
<td>Trishna Sarkar and Prolay Mondal</td>
</tr>
<tr>
<td>2</td>
<td>How far Left-Behind Children remain left behind in Educational Performance? An Empirical Investigation from labour sending communities of rural India</td>
<td>Prabir Das&amp; Prof. Pradip Chouhan</td>
</tr>
<tr>
<td>3</td>
<td>Modelling flood susceptibility and sensitivity assessment of Tangon river basin of India and Bangladesh</td>
<td>Pankaj Singha and Swades Pal</td>
</tr>
<tr>
<td>4</td>
<td>Effects of seasonality and salinity on atmospheric methane emission from the wetlands of deltaic environment</td>
<td>Sandipta Debanshi and Swades Pal</td>
</tr>
<tr>
<td>5</td>
<td>The Situation Of Informal Sector In Assam Amidst</td>
<td>Deepa Pradhan</td>
</tr>
<tr>
<td>Sl. No.</td>
<td>Title of the Paper</td>
<td>Name of the presenter</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------------------------------------------------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>1</td>
<td>The role of social media in promoting environmental awareness and sustainability: An engagement rate analysis</td>
<td>Puja Banerjee</td>
</tr>
<tr>
<td>2</td>
<td>Impact of urbanization on land surface temperature in Guwahati city, India</td>
<td>Sourav Chetia</td>
</tr>
<tr>
<td>3</td>
<td>Migration of Population in Present Scenario with Special Reference to India</td>
<td>Partha Pratim Sarkar</td>
</tr>
<tr>
<td>4</td>
<td>Covid-19 and its impact on mental health: Scenario from India</td>
<td>Sutapa Mukherjee</td>
</tr>
<tr>
<td>5</td>
<td>Exploring the spatio-temporal pattern of particle matter (PM2.5 and PM10) concentrations and its relationship with meteorological parameters and COVID-19: A study on Delhi Megacity, India</td>
<td>Manob Das and Arijit Das</td>
</tr>
<tr>
<td>6</td>
<td>A Survey on Disaster: Understanding the After-effects of Super-cyclone Amphan and Helping Hand of Social Media</td>
<td>Supriyo Halder</td>
</tr>
<tr>
<td>7</td>
<td>Impact of Lockdown Due to Covid-19 On the Internal Migrants of India</td>
<td>Miss Banashree Devi</td>
</tr>
<tr>
<td>8</td>
<td>COVID-19 and Reverse Migration: the hardships and the way ahead</td>
<td>Syeda Fahima Shahnaz Sultana</td>
</tr>
</tbody>
</table>

Parallel: Technical Session-4 (12:20 pm to 1:30 pm)

Google Meet link: https://meet.google.com/omvdvdb-rkv

Chairperson: Prof. Pradip Chouhan
Professor, Department of Geography, University of Gour Banga, Malda, WB

Co-chair Person: Dr. Abhijit Sarkar
Assistant Professor and Assistant registrar (Addl. Charge), Department of Botany, University of Gour Banga, Malda, WB

Rapporteur: Ipsita Dutta
Research scholar, Department of Geography, University of Gour Banga, Malda, WB
<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Title of the Paper</th>
<th>Name of the presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Causative Factors based watershed prioritization in Pathro River Basin, Jharkhand and Bihar</td>
<td>Amiya Gayen, Sk. Mafizul Haque</td>
</tr>
<tr>
<td>2</td>
<td>Analysis of Spatial drought vulnerability in Odisha, India using Fuzzy-Analytical Hierarchical Process</td>
<td>Sunil Saha and Barnali Kundu</td>
</tr>
<tr>
<td>3</td>
<td>Urbanization and its impact on land surface temperature in local climatic zones of Siliguri and its surroundings</td>
<td>Ivana Hoque and Prof. Sushma Rohatgi</td>
</tr>
<tr>
<td>4</td>
<td>Damming effects on the linkages between water richness and ecosystem services</td>
<td>Swades Pal, Sonali Kundu</td>
</tr>
<tr>
<td>5</td>
<td>Exploring change of river morphology and water quality in the stone mine areas of Dwarka River Basin, Eastern India</td>
<td>Indrajit Mandal &amp; Swades Pal</td>
</tr>
<tr>
<td>6</td>
<td>Indirect Impact of Covid-19 Pandemic on Surface Water Quality in India: A Review</td>
<td>Dr. Jiaul Islam</td>
</tr>
<tr>
<td>7</td>
<td>Identification of potential river bank erosion sites of Kalindri River, West Bengal, India</td>
<td>Somen Das</td>
</tr>
<tr>
<td>8</td>
<td>Novel ensemble machine learning approaches for spatial gully erosion susceptibility mapping: A Study of Hinglo River Basin, India</td>
<td>Jagabandhu Roy and Sunil Saha</td>
</tr>
</tbody>
</table>

**Parallel: Technical Session-6 (2:00 pm to 3:30 pm)**

**Google Meet link:** [https://meet.google.com/tm-dtap-shs](https://meet.google.com/tm-dtap-shs)

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Title of the Paper</th>
<th>Name of the presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Domestic Smoke Pollution and Acute Respiratory Infection (ARI) among under-5 Children in India: A View of Changing Scenario insight from NFHS-3 &amp; NFHS-4</td>
<td>Salim Mandal Prof. Pradip Chouhan</td>
</tr>
<tr>
<td>2</td>
<td>Low Birth Weight Babies in India: Incidence, Risk Factors and Consequences</td>
<td>Ankita Zaveri and Pradip Chouhan</td>
</tr>
<tr>
<td>3</td>
<td>Role of media exposure on the utilization of maternal health care services among Indian mothers (15-49 years): An analysis from nationally representative survey</td>
<td>Bikash Barman, Prof. Pradip Chouhan</td>
</tr>
<tr>
<td>4</td>
<td>Girl child marriage in Malda district of West Bengal: Analysis of prevalence and socio-economic factors</td>
<td>Avijit Roy</td>
</tr>
<tr>
<td>5</td>
<td>Predicting wetland area and water depth of Ganges moribund delta of India</td>
<td>Satyajit Paul &amp; Swades Pal</td>
</tr>
<tr>
<td>6</td>
<td>A Brief Geographical Account of the Tropical Cyclones on Indian Landmass since the Independence</td>
<td>Dr. Bhaswati Mondal</td>
</tr>
<tr>
<td>---</td>
<td>------------------------------------------------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>7</td>
<td>Cooling Effects and Spatial Pattern of Urban Green Space (UGS) – A Study of Berhampore Urban Agglomeration (BUA) and Surroundings</td>
<td>Kalikinkar Das, Dr. Arijit Das</td>
</tr>
<tr>
<td>8</td>
<td>Tribal Health Status In West Bengal: An Anthropological Review</td>
<td>Aritra Basak and Prof. Giyasuddin Siddique</td>
</tr>
</tbody>
</table>

**Valedictory Session (4:00pm to 4:30pm)**

**Google Meet link:** [https://meet.google.com/yfs-zkjb-ipm](https://meet.google.com/yfs-zkjb-ipm)