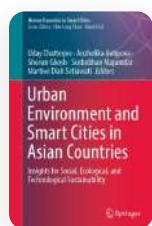


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Site Suitability Analysis for New Urban Development Using Fuzzy-AHP and DEMATEL Method: A Case of Mixed Agricultural-Urbanized Landscape of Burdwan Town, West Bengal, (India)

| Chapter | First Online: 26 April 2023

| pp 389–423 | [Cite this chapter](#)



Urban Environment and Smart Cities in Asian Countries

[Sanu Dolui](#)  & [Sumana Sarkar](#)

 Part of the book series: [Human Dynamics in Smart Cities](#) ((HDSC))

 186 Accesses

Abstract

Exaggerated population pressure & widespread human activities are propelling the urban activities to spread outside cities administrative limits into peri-urban spaces. Now it has become a critical task for the urban planner & policy maker to determine optimal

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Zeydan, M., Bostancı, B., & Oralhan, B. (2018). A New Hybrid Decision Making Approach for Housing Suitability Mapping of an Urban Area. *Mathematical Problems in Engineering*, 2018, 1–13. <https://doi.org/10.1155/2018/7038643>

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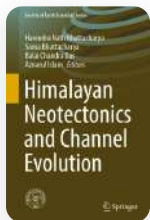
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Evaluating the Relative Tectonic Response of the Fluvial Systems Using Multicriteria Entropy Method: A Case Study of the Rangit Catchment, Eastern Himalayas, India

| Chapter | First Online: 08 July 2022

| pp 315–343 | [Cite this chapter](#)



Himalayan Neotectonics and Channel Evolution

[Lopamudra Roy](#), [Somasis Sengupta](#) , [Sayantan Das](#) & [Arindam Sarkar](#)

 Part of the book series: [Society of Earth Scientists Series \(\(SESS\)\)](#)

 162 Accesses  1 [Citations](#)

Abstract

The Rangit catchment is nestled within the active tectonic region of the Eastern Himalayas in the mountainous state of Sikkim, India. The role of tectonics in this catchment is visibly indicated by the presence of fluvial systems under the erosional regime and associated geomorphic features, along with frequent seismic activities. The

Zevenbergen LW, Thorne CR (1987) Quantitative analysis of land surface topography. Earth Surf Proc Land 12:47–56. <https://doi.org/10.1002/esp.3290120107>

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Forest Dependency and Rural Livelihood: Strategical Survival of People in Himalayan Foothills of Bengal Duars Region

| Chapter | First Online: 23 July 2023

| pp 21–34 | [Cite this chapter](#)



Environmental Management and Sustainability in India

[Koyel Sam](#) ✉ & [Namita Chakma](#)

📖 109 Accesses

Abstract

Being located in the Eastern Himalayan foothill region, Bengal Duars (also named Dooars) is identified as a unique landscape enriched with forest resources and divergent indigenous culture. This region has gone through assorted changes in its natural and socio-economic milieu. With the changes in forest scape, ways of survival of villagers also modified since pre-colonial to after the Independence period. The objective of this study is not only to address all such struggles faced by the forest villagers for their survival in such a landscape but also to explore the influence of socio-economic variables on forest dependency by using the logistic regression model. The study has found that less than

USGCRP. (2017). *Climate science special report: Fourth national climate assessment, volume I* (D. J. Wuebbles, D. W. Fahey, K. A. Hibbard, D. J. Dokken, B. C. Stewart, & T. K. Maycock, eds.) (470 pp.). U.S. Global Change Research Program. <https://doi.org/10.7930/J0J964J6>

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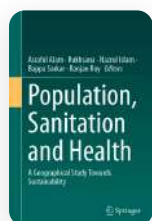
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Prevalence and Changing Pattern of Undernutrition Among Women in West Bengal: A Comparative Study Between NFHS-4 and NFHS-5

| Chapter | First Online: 22 November 2023

| pp 203–213 | [Cite this chapter](#)



Population, Sanitation and Health

[Asif Ali](#) , [Susanta Sen](#), [Amit Banerjee](#), [Soumitra Saha](#) & [Namita Chakma](#)

 129 Accesses  1 [Citations](#)

Abstract

Undernutrition among women is a serious public health concern in India. There is a paucity of research on the prevalence and dynamic nature of change in undernutrition among women in West Bengal. Therefore, this study attempts to fill this gap by identifying the spatial pattern of undernutrition among women in West Bengal. The present study uses a cross-sectional sample of women in the reproductive age group from the latest two rounds of the National Family Health Survey data, i.e., NFHS-4 (2015–2016) and NFHS-5 (2019–2021). The results revealed that the prevalence of

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Determinants of early marriage among females in Eastern India - Insights from National Family Health Survey

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In book: Contribution of Women in Developing India (pp.33-53) · Edition: First Published 2023 · Publisher: AKSHAR PRAKASHNI

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Abstract

Background: Eastern India is the largest contributor to early marriage prevalence among other regions in India. It has many harmful consequences for a female's lifestyle. It denies the fundamental right of children to education, nutrition, health, and equality, and affects their capacity to remain free of violence, abuse, and exploitation. The study aims at determining the spatial profile of early marriage from NFHS-4 (2015-16). There is also an attempt to identify the determinants of early marriage among females (aged 20-24 years) based on the third and fourth rounds of NFHS for Eastern India. Methods: The study uses software QGIS-2.18 and GeoDa, to show the spatial pattern of early marriage prevalence. Multivariate logistic regression model has been used to investigate the determinants leading to early marriage among females. Results: The early marriage prevalence is highest in Bihar (42.5%) and lowest in Odisha (21.3%), as per NFHS-4. Total 51 and 80 districts in Eastern India have more than the regional (38.3%) and the national (26.8%) average of early marriage prevalence. The result also reveals that 24 districts in the region's central portion have been designated as hotspot zones. The findings show that females who live in urban areas and in the state of Odisha are less likely to get married before turning 18 years old. Early marriage risk is decreased by improving females' educational attainment and household financial standing. Conclusion: The study recommends that existing child marriage prevention acts, policies, and programmes at national and sub-national levels can achieve greater results by implementing targeted tactics that are aimed at the lowest performing districts, rural areas, and socio-economically disadvantaged communities.

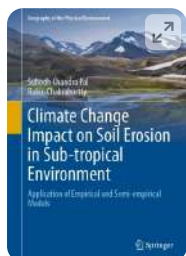
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Geomorphology, Pedo-geomorphology, Land Degradation, Soil Erosion, Gully Erosion, Landslide Vulnerability and Climate Change. His current research is focused on understanding fluvial processes causing hazards and disaster, forest health monitoring, machine learning techniques, climate change impact and vulnerability assessment.

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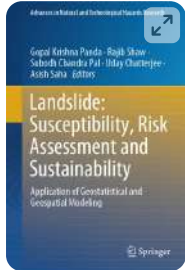
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Editors: [Gopal Krishna Panda](#), [Rajib Shaw](#), [Subodh Chandra Pal](#), [Uday Chatterjee](#), [Asish Saha](#)

Assembles information on rigorous uses of geospatial and geostatistical techniques
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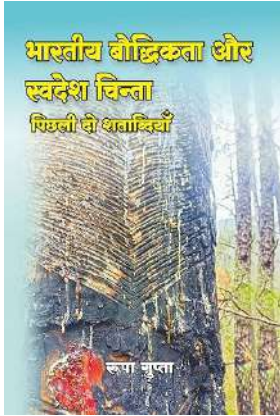
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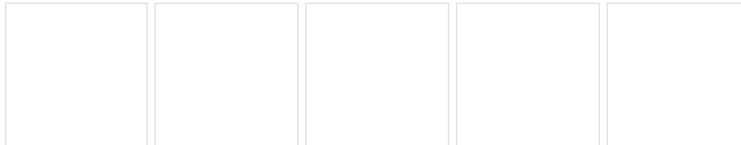


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¹Research Scholar & Deputy Librarian at Indian Institute of Petroleum & Energy,
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²Assistant Professor, The University of Burdwan, West Bengal, India

ABSTRACT

In this paper, citation analysis of the doctoral dissertations of the Electronics and Communication Engineering (E.C.E.) department of National Institute of Technology Durgapur (N.I.T. Durgapur), West Bengal, India, were analysed to understand the citation trends of the scholars. For this study, 47 doctoral dissertations available in the library are chosen as the study sample. These dissertations contain 6476 references referred from different kinds of literature. Journals are the most preferred literature with 3934 (60.75%) of the whole, followed by conference proceedings with 1572 (24.27%) and books with 675 (10.44%) references. 231 (3.57%) were referred from other resources, while 64 (0.99) could not find. IEEE has received maximum journal citations to 1572 (39.96%) of the total journals' citations followed by Elsevier B.V. and American Physical Society to 413 (10.50%) and 222 (5.64%) respectively. The rest of the journals references were from other publishers. Scholars cited 754 journals out of these IEEE Transactions on Antennas and Propagation has received maximum occurrence to 337 followed by Physical Review B - Condensed Matter and Materials Physics by A.P.S. and Electronics Letters by I.E.T. to 108 and 107 times respectively. The U.S.A. is the top publishing country with 318 Publications. Followed by the United Kingdom, Netherlands & India with 134, 94,44 & 40 publications, respectively.

Key words: Citation analysis, bibliometrics study, scholarly communication, Electronics and Communication Engineering - N.I.T. Durgapur. Journal Ranking

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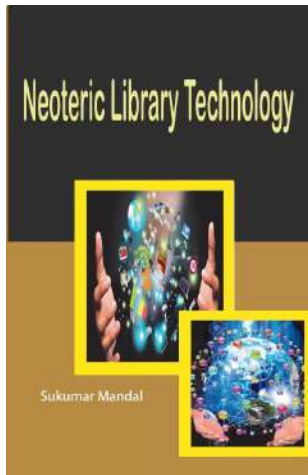
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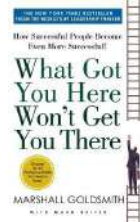
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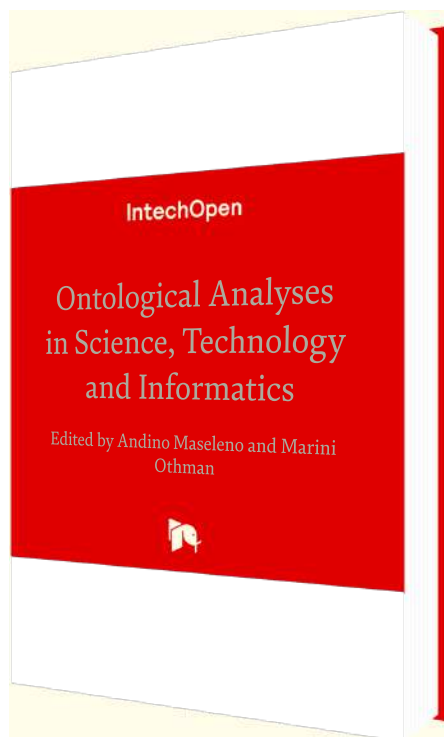
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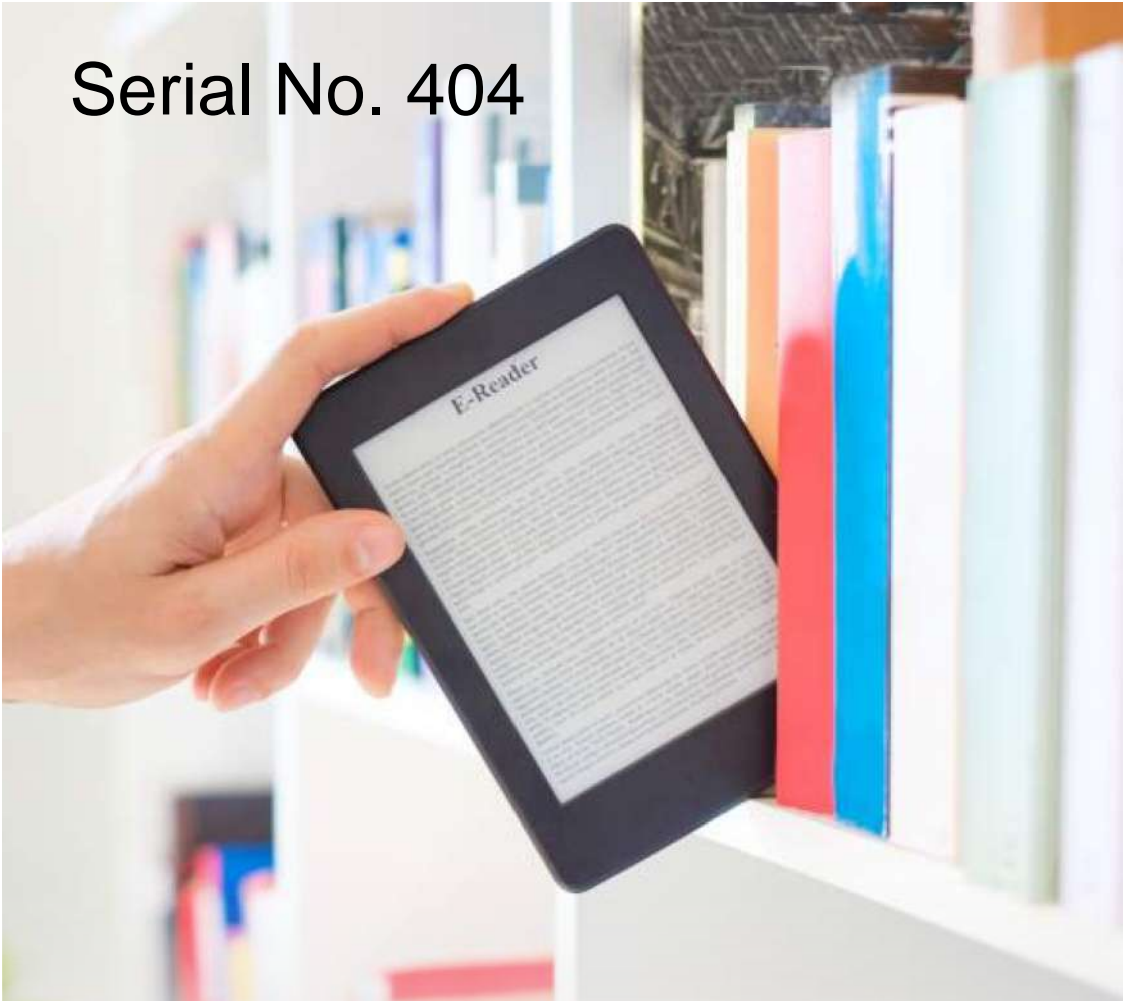
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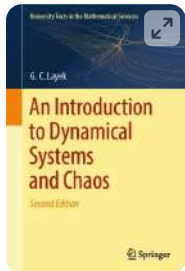
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About the author

G. C. LAYEK is a Professor of the Department of Mathematics, The University of Burdwan, India. He received his Ph.D. degree from Indian Institute of Technology, Kharagpur and did his Post doctoral studies at Indian Statistical Institute, Kolkata. His areas of research are nonlinear dynamics, chaos theory, turbulence, boundary layer flows and thermal sciences. Professor Layek has published more than 100 research papers in international journals of repute. He taught more than two decades at the post-graduate level in the University of Burdwan. He made several international academic visits, such as Laboratoire de Mécanique des Fluides de Lille (LMFL), Centrale Lille, France as ‘Professeur invité’, Saint Petersburg State University and Kazan State Technological University, Russia for collaborative research works. Layek and Pati’s model (Physics Letters A, 381: 3568–3575, 2017) got recognition for exploring bifurcations and Shil’nikov chaos in Rayleigh–Bénard convection of a

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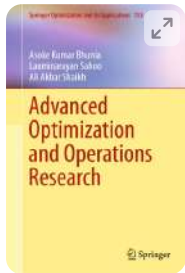
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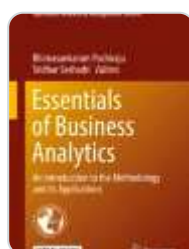
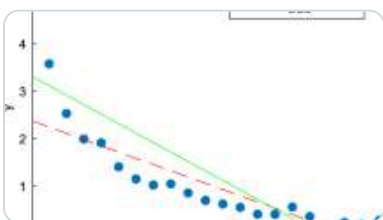
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