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# Institute Of Engineering

**This book gathers  
selected high-  
quality research  
papers presented  
at International  
Conference on**

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**Mobile Computing  
and Sustainable  
Informatics**

**(ICMCSI 2021)**

**organized by**

**Pulchowk**

**Campus, Institute**

**of Engineering,**

**Tribhuvan**

**University, Nepal,**

**during 29–30**

**January 2021. The**

**book discusses**

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**recent  
developments in  
mobile**

**communication  
technologies  
ranging from  
mobile edge  
computing  
devices, to  
personalized,  
embedded and  
sustainable  
applications. The**

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**book covers vital  
topics like mobile  
networks,  
computing  
models,  
algorithms,  
sustainable  
models and  
advanced  
informatics that  
supports the  
symbiosis of  
mobile computing**

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**and sustainable  
informatics.**

**The book contains**

**high quality**

**papers presented**

**in conference**

**Recent Advances**

**in Mechanical**

**Infrastructure**

**(ICRAM-2019) held**

**at IITRAM,**

**Ahmedabad, India**

**from 20-21 April,**

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**2019. The topics covered in this book are recent advances in thermal infrastructure, manufacturing infrastructure and infrastructure planning and design.**

**Ecological  
Significance of**

*Page 6/222*

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**Riparian  
Ecosystems:  
Challenges and  
Management  
Strategies**

**examines the  
current issues  
related to river  
ecosystems, their  
environmental  
importance,  
pollution issues  
and potential**

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**management strategies. The book is divided into 4 key themes: Basics of river ecosystem, Natural phenomenon of river ecosystem, Human-induced problems of river ecosystem, and Management**



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**measures for the  
river ecosystem.**

**Through these  
four themes, the  
contributors  
present both  
practical and  
theoretical aspects  
of river ecosystem  
in changing  
climate. An  
emphasis has  
been made on the**

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**recent research of  
climate change  
and its impact on  
the river**

**ecosystem. River  
ecosystems have  
tremendous  
potential to store  
CO<sub>2</sub>, however,  
with changing  
climatic and  
anthropogenic  
activities, these**

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**habitats are under threat, and river ecosystems are losing the very vital service of storing carbon.**

**Unlike well documented terrestrial biodiversity, the biodiversity in aquatic ecosystems is still**

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**unrecognized to  
some extent.**

**Presents an  
understanding of  
the  
biogeochemical  
processes of river  
ecosystems  
achieved by food  
webs and diverse  
biogeochemical  
processes Covers  
sediment**

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**dynamics and  
nutrient chemistry  
- hot topics in river  
ecosystems**

**Includes  
environmental  
pollution issues in  
river ecosystems  
from various  
anthropogenic  
activities**

**"This book  
highlights the**

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**current design  
issues in wireless  
networks,**

**informing scholars  
and practitioners  
about advanced  
prototyping  
innovations in this  
field"--**

**Heritage and  
Identities in  
Changing Urban  
Landscapes**

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# **Challenges and Management Strategies**

## **Emerging**

## **Technologies in**

## **Wireless Ad-hoc**

## **Networks:**

## **Applications and**

## **Future**

## **Development**

## **Revisiting**

## **Kathmandu:**

## **safeguarding**

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**living urban  
heritage**

**Technologies for  
Sustainable  
Development  
Applications and  
Future**

**Development**

**The Soils of Nepal**

South Asia constitutes  
a key geography in the  
world today  
considering its large



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population and related daunting energy and environmental challenges. Many countries in the region are faced with a growing gap between energy demand and local resources, resulting in an increased dependence on imports. According to the International Energy Agency (IEA),

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the energy demand in South Asia will grow at a rate more than double that of the world average in the coming decades. This book addresses the critical subject of energy and environmental outlook for South Asia and presents the wider challenges and the responses at the

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national and regional level. Features:

Discusses and addresses the ongoing energy and environmental challenges faced by almost a quarter of the global population Includes dedicated chapters for each country and presents analysis and recommendations by

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regional experts

Examines how

deteriorating air

quality and persistent

natural disasters are

severe environmental

challenges for the

region Discusses the

implications of global

warming and climate

change for South Asia

Includes practical case

studies throughout

Energy and

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Environmental  
Outlook for South Asia  
will benefit a wide  
range of stakeholders  
from various fields  
including but not  
limited to energy,  
environment,  
economics, national  
security, and  
sustainable  
development. It also  
serves as a valuable  
resource for

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academics,  
researchers, analysts,

policymakers, and

representatives of

utilities, industry,

professional bodies,

financial institutions,

think tanks, and

developmental

organizations to better

plan their initiatives,

activities, and policies.

It will help countries in

the region and also

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those around the world  
by learning from  
shared experience, and  
ideally by  
collaborating for  
energy and  
environmental  
prosperity.

This book is a part of  
ICL new book series  
"ICL Contribution to  
Landslide Disaster  
Risk Reduction"

founded in 2019. Peer-

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reviewed papers  
submitted to the Fifth  
World Landslide

Forum were published  
in six volumes of this  
book series. This book  
contains the

followings: Part I with  
topics is mainly about  
landslides and  
earthquakes; landslide  
dams and outburst  
floods; catastrophic  
large-scale landslides



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in mountainous regions. Part II with topics is mainly about impact of climate change; loess landslides; mapping, monitoring and modeling of landslides; stabilization and mitigation; application of new technology in landslide studies. Prof. Vít Vilímek is the vice-president of the

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Consortium on

Landslides (ICL) and a

member of the

evaluation committee,

Editor-in-Chief of the

university journal

AUC Geographica and

Associate Editor-in-

Chief of the

international journal

Geoenvironmental

Disasters. He is a

Professor of Physical

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Geography at Charles University, Prague, Czech Republic. Prof. Fawu Wang is the President of the International Consortium on Geo-disaster Reduction (ICGdR) and the Editor-in-Chief of the international journal Geoenvironmental Disasters. He is a Professor at the School

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of Civil Engineering,  
Tongji University,  
China. Dr. Alexander  
Strom is a chief expert  
at the Geodynamics  
Research Center LLC,  
Moscow, Russia. He is  
also an Adjunct  
Professor at Chang'an  
University, Xi'an,  
China, Visiting  
Professor at SKLGP,  
Chengdu, China, and  
an alternative

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representative of the  
JSC "Hydroproject  
Institute" in ICL. Prof.  
Kyoji Sassa is the  
Founding President  
and the Secretary-  
General of the  
International  
Consortium on  
Landslides (ICL). He  
has been the Editor-in-  
Chief of International  
Journal Landslides  
since its foundation in

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2004. Prof. Peter Bobrowsky is the President of the International Consortium on Landslides. He is a Senior Scientist of Geological Survey of Canada, Ottawa, Canada. Prof. Kaoru Takara is the Executive Director of the International Consortium on

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Landslides. He is a Professor and Dean of Graduate School of Advanced Integrated Studies (GSAIS) in Human Survivability (Shishu-Kan), Kyoto University.

Advances in Agronomy, Volume 170, the latest release in this leading reference on agronomy, contains a

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variety of updates and highlights new advances in the field.

Each chapter is written by an international board of authors. Includes numerous, timely, state-of-the-art reviews on the latest advancements in agronomy Features distinguished, well recognized authors



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from around the world

Builds upon this

venerable and iconic

review series Covers

the extensive variety

and breadth of subject

matter in the crop and

soil sciences

This book presents an

overview of the

challenges that cities in

Latin America and

Asia are facing

regarding the

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preservation of their tangible and intangible heritage. It argues that urban heritage has a value that transcends the mere object's value, constituting a crucial source of identity for urban inhabitants. The same is true for the urban intangible values and practices that are often associated with places

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or buildings. The empirical research is based on case studies of Kathmandu in Nepal, Yogyakarta in Indonesia and Recife in Brazil; three cities that still comprise core areas with a high percentage of historic fabric and distinctive cultural expressions. The comparative study of the three areas

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reveals the similarities and differences of urban conservation policies, past and present upgrading strategies in the core areas, and the importance of tangible and intangible heritage. All three cities demonstrate that urban heritage, habits and beliefs are still of importance to the

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population. While there are significant differences in the kind and level of protection the respective legal system provides, partly uncontrolled urban dynamics pose a threat to all of them. The text is based on a PhD thesis submitted to the Institute of Geography, University of Innsbruck, Austria.

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Proceedings of  
ICMCSI 2021

The Limits to Scarcity

Civilian Conflict

Management

Physical facilities at

Tribhuvan University,

Institute of

Agriculture and

Animal Sciences

Appear

The Brick and the Bull

Proceedings of

International

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Sustainable Expert

Engineering  
Systems

Handigaun Is The  
Earliest Known  
Urban Settlement  
Of Kathmandu  
Valley. The Book  
Tells Us The  
Fascinating Story  
Of Handigaun`S  
Origins, Its  
Legendary

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Figures, The  
Palace Intrigues  
And Other

Historical Events  
Based On A Study  
Of The Ancient  
Festivities And  
Rituals Of Their  
Place.

This book includes  
papers on  
intelligent expert  
systems and



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sustainability applications in the areas of data science, image processing, wireless communication, risk assessment, healthcare, intelligent social network mining, and energy. The recent growth of

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sustainability leads to a progressively new era of computing, where its design and deployment leverages significant impact on the intelligent systems research. Moreover, the sustainability technologies can

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be effectively used  
in the progressive  
deployment of  
various network-  
enabled  
technologies like  
intelligent sensors,  
smart cities,  
wearable  
technologies,  
robotics, web  
applications and  
other such Internet

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technologies. The thrust of this book is to publish the state-of-the-art research articles that deals with the design, development, implementation and testing of the intelligent expert systems and also to provide an

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overview of the  
sustainable  
management of  
these systems.

This book features  
original papers  
from International  
Conference on  
Expert Clouds and  
Applications  
(ICOECA 2021),  
organized by  
GITAM School of

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Technology,  
Bangalore, India

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during February

18-19, 2021. It

covers new

research insights

on artificial

intelligence, big

data, cloud

computing,

sustainability, and

knowledge-based

expert systems.

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The book discusses innovative research from all aspects including theoretical, practical, and experimental domains that pertain to the expert systems, sustainable clouds, and

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artificial  
intelligence  
technologies.

This publication is part of a series of six country reports on technical and vocational education and training (TVET) and higher education in Bangladesh,



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Nepal, and Sri Lanka. Each report presents current arrangements and initiatives in the respective country's skills development strategies. These are complemented by critical analyses to determine key

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issues, challenges,  
and opportunities  
for innovative

strategies toward  
global

competitiveness,  
increased

productivity, and  
inclusive growth.

The emphasis is to  
make skills

training more

relevant, efficient,

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and responsive to emerging domestic and international labor markets. The reports were finalized in 2013 under the Australian AID-supported Phase 1 of Subproject 11 (Innovative Strategies for

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Accelerated  
Human Resource  
Development) of  
Regional Technical  
Assistance 6337  
(Development  
Partnership  
Program for South  
Asia).

Information  
Technology in  
Educational  
Management

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Proceedings of

ICSADL 2021

Discourses,

Opinions,

Experiences in

Europe, South and

East Asia

Advances in

Antenna, Signal

Processing, and

Microelectronics

Engineering

Modelling,

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Simulation and  
Analysis

Reforms at the

Institute of

Engineering,

Tribhuvan

University, Nepal

Proceedings of

ICOECA 2021

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license. This volume contains peer-reviewed papers from the Fourth World Landslide Forum organized by the International Consortium on Landslides (ICL), the Global Promotion

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Committee of the

International

Programme on

Landslides (IPL),

University of

Ljubljana (UL)

and Geological

Survey of

Slovenia in

Ljubljana,

Slovenia from

May 29 to June 2,



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2017. The complete collection of papers from the Forum is published in five full-color volumes.

This first volume contains the following: •

Three forum

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lectures •

Background and

Content of the

Sendai

Partnerships

2015–2025 •

Contribution from

the signatory

organizations of

the Sendai

Partnerships •

Landslide

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Dynamics: ISDR-

ICL Landslide

Interactive

Teaching Tools

(LIT T) • Progress

of the World

Report on

Landslides (WRL)

• International

Programme on

Landslides (IPL):

Objects, History

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and List of  
WCoE/IPL  
projects •

UNESCO-KU-ICL

UNITIWIN

Network

supporting IPL •

Landslides:

Journal of

International

Consortium on

Landslides •

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International  
Programme on  
Landslides (IPL):

WCoEs and IPL  
Projects •

Landslides and  
Society Prof.

Kyoji Sassa is  
the Founding  
President of the  
International  
Consortium on

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Landslides (ICL).

He is Executive

Director of ICL

and the Editor-in-

Chief of

International

Journal

Landslides since

its foundation in

2004. Prof. Matjaž

Mikoš is the

Forum Chair of

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the Fourth World

Landslide Forum.

He is the Vice

President of

International

Consortium on

Landslides and

President of the

Slovenian

National Platform

for Disaster Risk

Reduction. Prof.

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Yueping Yin is  
the President of  
the International  
Consortium on  
Landslides and  
the Chairman of  
the Committee of  
Geo-Hazards  
Prevention of  
China, and the  
Chief Geologist  
of Geo-Hazard



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Emergency  
Technology,  
Ministry of Land  
and Resources,  
P.R. China. IPL  
(International  
Programme on  
Landslides) is a  
programme of the  
ICL. The  
programme is  
managed by the

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IPL Global  
Promotion  
Committee

including ICL and

ICL supporting

organizations,

UNESCO, WMO,

FAO, UNISDR,

UNU, ICSU,

WFEO, IUGS and

IUGG. The IPL

contributes to the

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United Nations  
Institute Of  
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Strategy for  
Disaster  
Reduction and  
the ISDR-ICL  
Sendai  
Partnerships  
2015–2025.  
APPEAR –  
»Austrian  
Partnership

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Programme in  
Higher Education  
and Research for  
Development« –  
wird von der  
Österreichischen  
Entwicklungszus  
ammenarbeit  
finanziert und  
fördert  
Kooperationen in  
den Bereichen

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Lehre, Forschung  
und Management  
zwischen

österreichischen  
Hochschulen und  
Universitäten,  
bzw. wissenschaft  
lichen

Einrichtungen in  
insgesamt 13  
Partnerländern.

APPEAR ist nicht

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an einseitigem  
Wissenstransfer  
interessiert,  
sondern schafft  
transdisziplinäre  
und  
transnationale  
Räume des  
Lernens und  
gemeinsamen  
Forschens. Im  
Rahmen des seit

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2009 laufenden  
Programmes  
wurden bislang  
17 akademische  
Partnerschaften  
in lateinamerikani-  
schen und  
afrikanischen  
Ländern; bzw. in  
Nepal realisiert,  
die in dem  
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vorgestellt  
werden. Dabei  
zeigen sich  
spannende  
Möglichkeiten  
partizipativer und  
transkultureller W  
issensproduktion  
, die  
insbesondere  
auch für  
nachhaltige Entwi



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cklungswege in  
den betroffenen  
Ländern von  
hoher Relevanz  
ist.

Contributing to  
the general  
pursuit of  
constructive and  
sustainable  
conflict  
solutions, and

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the achievement  
of both negative  
and positive

peace, this book  
highlights the  
valuable role of  
scenario building  
processes in  
formulating  
viable strategies  
for electoral  
violence

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prevention,  
through tackling  
the structural  
roots of the  
electoral conflict.

Conceptual  
elements,  
pioneered and  
widely promoted  
by the individuals  
and  
organizations

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referenced  
throughout the  
book, are linked  
in a manner that  
C...

Whilst scientific  
research can be  
crucial in guiding  
innovation and  
development  
throughout the  
world, it can be

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too detached  
from real world  
applications,  
particularly in  
developing and  
emerging  
countries.

Technologies for  
Sustainable  
Development  
brings together  
the best 20

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papers from the  
2012 Conference  
of the EPFL-  
UNESCO Chair in  
Technologies for  
Development  
with the aim to  
explore and  
discuss ways to  
link scientific  
research with  
development

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practices to  
assist

practitioners and

reply directly to

social needs. In

order for

technologies to

be adopted it is

not sufficient that

they are low cost

and affordable

but also socially,

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culturally and environmentally accepted by the intended users.

Technologies for Sustainable Development

aims to explore and answer the following three questions: •

What is an



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appropriate  
technology? •

How can we

ensure a

sustainable,

integrated

development? •

What are the

conditions for co-

creation and

transfer of such

technologies?

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Focusing on the importance of improving working relationships between stakeholders; researchers and decision-makers; between scientists and industrial

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sectors; between  
academics and  
the population;  
Technologies for  
Sustainable  
Development  
opens a dialogue  
necessary to  
create and  
implement the  
best solutions  
adapted to social

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demands.

Sustainable

Power Systems

Developments in

Wireless Network

Prototyping,

Design, and

Deployment:

Future

Generations

Participative

Knowledge

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Production  
Through  
Transnational  
and Transcultural  
Academic  
Cooperation  
Sentimental  
Analysis and  
Deep Learning  
Contesting the  
Politics of  
Allocation

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Landforms and  
Processes in  
Cities

Energy,

Environment and

Sustainable

Development

Scarcity is

considered a

ubiquitous

feature of the

human

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condition. It underpins much of modern economics and is widely used as an explanation for social organisation, social conflict and the resource crunch confronting

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humanity's  
survival on the  
planet. It is  
made out to be  
an all-  
pervasive fact  
of our lives -  
be it of  
housing, food,  
water or oil.  
But has the  
conception of  
scarcity been



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politicized,  
naturalized,  
and

universalized  
in academic and  
policy debates?  
Has overhasty  
recourse to  
scarcity evoked  
a standard set  
of market,  
institutional  
and

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technological solutions which have blocked out political contestations, overlooking access as a legitimate focus for academic debates as well as policies and interventions?

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Theoretical and  
empirical  
chapters by  
leading  
academics and s  
cholar-  
activists  
grapple with  
these issues by  
questioning  
scarcity's take  
n-for-granted  
nature. They

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examine  
scarcity  
debates across  
three of the  
most important  
resources -  
food, water and  
energy - and  
their  
implications  
for theory,  
institutional  
arrangements,

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policy  
responses and  
innovation

systems. The  
book looks at  
how scarcity  
has emerged as  
a totalizing  
discourse in  
both the North  
and South. The  
'scare' of  
scarcity has

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led to scarcity  
emerging as a  
political  
strategy for  
powerful  
groups.

Aggregate  
numbers and  
physical  
quantities are  
trusted, while  
local  
knowledges and

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experiences of  
scarcity that  
identify

problems more  
accurately and  
specifically  
are ignored.

Science and  
technology are  
expected to  
provide

'solutions',

but such

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expectations

embody a

multitude of

unexamined

assumptions

about the

nature of the

'problem',

about the

technologies

and about the

institutional

arrangements



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put forward as  
a 'fix.'

Through this  
examination the  
authors  
demonstrate  
that scarcity  
is not a  
natural  
condition: the  
problem lies in  
how we see  
scarcity and

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the ways in  
which it is  
socially

generated.

New information  
and strategies  
for managing  
the energy  
crisis from the  
perspective of  
growing  
economies are  
presented.

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Numerous case studies illustrate the particular challenges that developing countries, many of which are faced with insufficient resources, encounter. As a result, many

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unique  
strategies to  
the problems of  
energy  
management an  
conservation,  
environmental  
engineering,  
clean  
technologies,  
biological and  
chemical waste  
treatment and

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waste

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Engineering

management have  
been developed.

Frontiers in

Biomaterials:

The Design,

Synthetic

Strategies and

Biocompatibilit

y of Polymer

Scaffolds for

Biomedical

Application,

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Volume 1

highlights the importance of biomaterials and their interaction with biological system. The need for the development of biomaterials as scaffold for tissue

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regeneration is driven by the increasing demands for materials that mimic functions of extracellular matrices of body tissues. This eBook covers the latest

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challenges on  
the biocompatib  
ility of  
scaffold  
overtime after  
implantation  
and discusses  
the requirement  
of innovative  
technologies  
and strategies  
for the  
development of



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materials with long-lasting scaffold and biocompatibility functions. The contents of this eBook include chapters on cell-scaffold interactions in three dimensions,

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nanocrystalline

diamond films

for biomedical

applications, b

ioceramics-

design,

synthesis and

biological

applications,

polyester

biomaterials

for

regenerative

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medicine,  
nanomaterials  
for skin  
regeneration  
and many more.  
This book is a  
valuable  
resource for  
MSc and PhD  
students ,  
academic  
personnel and  
researchers

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seeking updated  
and critically  
important

information on  
biomaterials  
and biomedical  
applications.

The book  
contributes to  
a recontextuali-  
zation of  
authenticity by  
investigating

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how this value  
is created,  
reenacted, and  
assigned. Over  
the course of  
the last  
century,  
authenticity  
figured as the  
major parameter  
for the  
evaluation of  
cultural

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heritage. It was adopted in local and international charters and guidelines on architectural conservation in Europe, South and East Asia. Throughout this period, the concept of

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authenticity  
was constantly  
redefined and  
transformed to  
suit new  
cultural  
contexts and  
local concerns.  
This volume  
presents  
colonial and  
postcolonial  
discourses,

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opinions, and  
experiences in  
the field of  
architectural  
heritage  
conservation  
and the use of  
site-specific  
practices based  
on  
representative  
case studies  
presented by



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art historians,  
architects, ant  
thropologists,  
and conservatio  
nists from  
Germany, Nepal,  
India, China,  
and Japan. With  
more than 180  
illustrations  
and a  
collection of  
terminologies

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in German,

English,

Sanskrit,

Hindi, Nevari

and Nepali,

classical

Chinese and

standard

Mandarin, and

Japanese, these

cross-cultural

investigations

document the

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processual re-  
configuration  
of the notion  
of

authenticity.

They also show  
that approaches  
to authenticity  
can be

specified with  
key analytical  
categories from  
transcultural

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studies:

appropriation,  
transformation,  
and, in some  
cases, refusal.

Proceedings of  
3rd

International  
Conference on  
Computing  
Informatics and  
Networks

Report on

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National  
Training of  
Trainers Course  
on Wood Energy  
Proceedings of  
ICRAM 2019  
The Routledge  
Handbook of  
Urban  
Resilience  
Ecological  
Significance of  
River

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Ecosystems  
Center for  
Energy Studies,

Institute of  
Engineering,

Tribhuvan

University,

Kathmandu,

Nepal, 4-7

April

ICCIN 2020

*This volume*

*provides a*

*Page 118/222*

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*comprehensive  
discussion and  
overview of  
urban  
resilience,  
including socio-  
ecological and  
economic hazard  
and disaster  
resilience. It  
provides a  
summary of  
state of the*

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*art thinking on  
resilience, the  
different  
approaches,  
tools and  
methodologies  
for  
understanding  
the subject in  
urban contexts,  
and brings  
together  
related*



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Engineering

*reflections and  
initiatives.*

*Throughout the  
different  
chapters, the  
handbook  
critically  
examines and  
reviews the  
resilience  
concept from  
various  
disciplinary*

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University

*and  
professional  
perspectives.*

*It also  
discusses major  
urban crises,  
past and  
recent, and the  
generic lessons  
they provide  
for resilience.  
In this  
context, the*

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*authors provide  
case studies  
from different  
places and  
times,  
including  
historical  
material and  
contemporary  
examples, and  
studies that  
offer concrete  
guidance on how*

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*to approach  
urban  
resilience.*

*Other chapters  
focus on how  
current  
understanding  
of urban  
systems – such  
as shrinking  
cities, green  
infrastructure,  
disaster*

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Engineering

*volunteerism,  
and urban  
energy systems  
– are affecting  
the capacity of  
urban citizens,  
settlements and  
nation-states  
to respond to  
different forms  
and levels of  
stressors and  
shocks. The*

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*handbook  
concludes with  
a synthesis of*

*the state of  
the art*

*knowledge on*

*resilience and*

*points the way*

*forward in*

*refining the co*

*nceptualization*

*and application*

*of urban*

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Engineering

*resilience. The book is intended for scholars and graduate students in urban studies, environmental and sustainability studies, geography, planning,*

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Engineering

*architecture,  
urban design,  
political  
science and  
sociology, for  
whom it will  
provide an  
invaluable and  
up-to-date  
guide to  
current  
approaches  
across these*



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*disciplines  
that converge  
in the study of  
urban  
resilience. The  
book also  
provides  
important  
direction to  
practitioners  
and civic  
leaders who are  
engaged in*

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Engineering

*supporting  
cities and  
regions to  
position  
themselves for  
resilience in  
the face of  
climate change,  
unpredictable s  
ocioenvironment  
al shocks and  
incremental  
risk*

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Engineering

*accumulation. Mobile ad-hoc networks have attracted considerable attention and interest from the commercial sector as well as the standards community. Many new ad-hoc*

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*networking applications have been conceived to help enable new commercial and personal communication beyond the domain of tactical networks, including*

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*personal area  
networking,  
home*

*networking, law  
enforcement  
operations,  
search and  
rescue*

*operations,  
commercial and  
educational  
applications,  
and sensor*

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Engineering

*networks.*

*Emerging*

*Technologies in*

*Wireless Ad-hoc*

*Networks:*

*Applications*

*and Future*

*Development*

*provides the*

*rationale, stat*

*e-of-the-art*

*studies and*

*practical*

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University,

Institute Of

Engineering

*applications, p  
roof-of-  
concepts,  
experimental  
studies, and  
future  
development on  
the use of  
emerging  
technologies in  
wireless ad-hoc  
networks. In  
addition, this*

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Engineering

*work explores  
emerging  
wireless ad hoc  
technologies  
based on  
communication  
coverage areas:  
body sensor  
networks,  
personal area  
networks, local  
area networks,  
and*



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*metropolitan*

*area networks*

*and their*

*applications in*

*critical*

*sectors, for*

*example,*

*agriculture,*

*environment,*

*public health*

*and public*

*transportation.*

*This book*

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Engineering

*focuses on new  
and original  
research ideas  
and findings in  
three broad  
areas:*

*computing,  
analytics, and  
networking and  
their potential  
applications in  
the various  
domains of*

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Engineering

*engineering –  
an emerging, in  
terdisciplinary  
area in which a  
wide range of  
theories and  
methodologies  
are being  
investigated  
and developed  
to tackle  
complex and  
challenging*

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*real-world  
problems. The*

*book also*

*features*

*keynote*

*presentations*

*and papers from*

*the*

*International*

*Conference on*

*Computing*

*Analytics and*

*Networking*

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University,

Institute Of

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*(ICCAN 2019),  
which offers an  
open forum for  
scientists,  
researchers and  
technocrats in  
academia and  
industry from  
around the  
globe to  
present and  
share state-of-  
the-art*

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University

*concepts,  
prototypes, and  
innovative*

*research ideas  
in diverse  
fields.*

*Providing  
inspiration for  
postgraduate  
students and  
young  
researchers  
working in the*

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Engineering

*field of  
computer  
science &  
engineering,  
the book also  
discusses  
hardware  
technologies  
and future  
communication  
technologies,  
making it  
useful for*

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Engineering

*those in the  
field of  
electronics.*

*Extensive work  
is a result of  
four year  
research within  
the*

*international  
project Women's  
Creativity  
since the  
Modern*



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Engineering

*Movement, and  
brings new  
insights into  
women in  
architecture,  
construction,  
design, urban  
planning and  
landscape  
architecture in  
Europe and in  
the rest of the  
world. It is*

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Engineering

*divided into  
eight chapters  
that combine  
116 articles on  
topics: A.*

*Women's  
education and  
training:*

*National and  
international  
mappings; B.*

*Women's legacy  
and heritage:*

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Engineering  
*Protection,  
restoration and  
enhancement; C.*

*Women in  
communication  
and*

*professional  
networks; D.*

*Women and  
cultural  
tourism; E.*

*Women's  
achievements*

Read Online

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University

and

Institute Of  
Engineering  
professional  
attainments:

*Moving*

*boundaries; F.*

*Women and*

*sustainability:*

*City and*

*Landscape; G.*

*Women 'as*

*subjects':*

*Documentation,*

*methodology,*

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Institute Of

Engineering

*interpretation*

*and*

*enhancement;*

*SG. Design*

*drawings. /*

*Obsežno delo je*

*plod*

*štiriletnih*

*raziskav v*

*okviru*

*mednarodnega*

*projekta MoMoWo*

*- Ženska*

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University

*ustvarjalnost  
od modernizma*

*dalje in*

*prinaša nova*

*spoznanja na*

*področju žensk*

*v arhitekturi,*

*gradbeništvu,*

*oblikovanju,*

*urbanizmu in*

*krajinski*

*arhitekturi v*

*Evropi in*

širše.

Razdeljena je v  
osem poglavij,  
ki združujejo  
116 prispevkov  
na temo o  
njihovi  
izobraženosti,  
kulturni  
zapuščini,  
vključevanju v  
stanovska  
združenja ali

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*njihovim  
prispevkom h*

*kulturnemu*

*turizmu in*

*stroki ter*

*raziskovanju*

*njihovega dela.*

*Zaključni jo*

*poglavje z*

*grafičnimi*

*prilogami.*

*Examples from*

*Asia, Europe,*



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Engineering

*Latin America,  
and Australia  
Emerging*

*Concepts*

*Advances in*

*Agronomy*

*Proceeding of*

*an*

*International*

*Symposium,*

*Kathmandu*

*Valley, 25-29*

*November 2013*

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Engineering

*Proceedings of  
ICCAN 2019*

*Volume 5*

*Catastrophic  
Landslides and  
Frontiers of  
Landslide  
Science*

*Expert Clouds  
and*

*Applications*

**Urban**

**Geomorphology:**

*Page 154/222*

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**Landforms and Processes in Cities addresses the human impacts on landscapes through occupation (urbanization) and development as a contribution to anthropogenic geomorphology or "anthropogeomorphology." This**

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**includes a focus on land clearance, conservation issues, pollution, decay and erosion, urban climate, and anthropogenic climate change.**

**These topics, as well as others, are considered to shed more light on the human**

**transformation of**

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**natural landscapes  
and the  
environmental  
impacts and  
geomorphological  
hazards that  
environmental  
change can  
encompass. Its  
multidisciplinary  
approach is  
appropriate for  
audiences from a  
range of**

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**disciplines and professions, from geologists, conservationists, and land-use planners to architects and developers. Urban Geomorphology not only transcends disciplines, but also covers varied spatial-temporal**

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**frameworks and presents a diverse set of approaches and solutions to human impacts and geomorphological hazards within urban landscapes. Features a cross-disciplinary perspective, highlighting the importance of the**

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**geosciences to  
environmental  
science,**

**engineering, and  
public policy**

**Focuses on the  
built environment  
as the location of  
concentrated  
human impacts  
and change**

**Provides an  
international  
scope, including**



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**case studies from  
urban areas**

**around the world**

**This interactive  
book presents  
comprehensive  
information on the  
fundamentals of  
landslide types  
and dynamics,  
while also**

**providing a set of  
PPT, PDF, and text  
tools for education**

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**and capacity development. It is the second part of a two-volume work created as the core activity of the Sendai Partnerships, the International Consortium of Landslides. The book will be regularly updated and improved over**

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**the coming years,  
based on**

**responses from  
users and lessons  
learned during its  
application.**

**This book is a part  
of ICL new book  
series "ICL**

**Contribution to  
Landslide Disaster  
Risk Reduction"  
founded in 2019.**

**Peer-reviewed**

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**papers submitted to the Fifth World Landslide Forum were published in six volumes of this book series. This book contains the followings: • One theme lecture and one keynote lecture•**

**Monitoring and remote sensing for landslide risk**

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**mitigation,  
including one  
keynote lecture•**

**Landslide early  
warning systems,  
forecasting models  
and time**

**prediction of  
landslides Prof.**

**Nicola Casagli is a  
Vice President and  
President-elect of  
the International  
Consortium on**

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**engineering**

**geology at the**

**Department of**

**Earth Sciences,**

**University of**

**Florence, and**

**President of the**

**National Institute**

**of Oceanography**

**and Applied**

**Geophysics - OGS,**

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**Trieste, Italy. Dr.  
Veronica Tofani is**

**an Associate  
Professor at the**

**Department of  
Earth Sciences,**

**University of  
Florence, and**

**Program**

**Coordinator of the  
UNESCO Chair on**

**Prevention and  
Sustainable**

**Management of**

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**Geo-hydrological hazards, University of Florence. Prof. Kyoji Sassa is the Founding President and the Secretary-General of the International Consortium on Landslides (ICL). He has been the Editor-in-Chief of International**



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**Journal Landslides**

**since its**

**foundation in**

**2004. Prof. Peter**

**Bobrowsky is the**

**President of the**

**International**

**Consortium on**

**Landslides. He is a**

**Senior Scientist of**

**Geological Survey**

**of Canada, Ottawa,**

**Canada. Prof.**

**Kaoru Takara is**

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**the Executive  
Director of the  
International  
Consortium on  
Landslides. He is a  
Professor and  
Dean of Graduate  
School of  
Advanced  
Integrated Studies  
(GSAIS) in Human  
Survivability  
(Shishu-Kan),  
Kyoto University.**

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**"This book offers suggestions, solutions, and recommendations for new and emerging research in Semantic Web technology, focusing broadly on methods and techniques for making the Web more useful and meaningful"--Provide**

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**d by publisher.  
Recent Advances**

**in Mechanical**

**Infrastructure**

**The Design,**

**Synthetic**

**Strategies and**

**Biocompatibility of**

**Polymer Scaffolds**

**for Biomedical**

**Application**

**agreement**

**between the**

**United States of**

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**America and Nepal,  
signed at**

**Kathmandu,  
January 13, 1976**

**Urban**

**Geomorphology**

**Volume 3**

**Monitoring and**

**Early Warning**

**Volume 2: Testing,**

**Risk Management**

**and Country**

**Practices**

**Landslide**

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**Dynamics: ISDR-**

**ICL Landslide**

**Interactive**

**Teaching Tools**

**This book deals**

**with quantifying**

**and analyzing the**

**risks associated**

**with sustainable**

**energy**

**technology**

**growth in electric**

**growth in electric**

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**power systems,  
and developing  
appropriate  
models and  
methodologies to  
mitigate the risks  
and improve the  
overall system  
performance.**

**The rapid  
increase in the  
installation of**

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**renewable  
energy sources  
in electric power  
systems has  
given rise to a  
wide range of  
problems related  
to planning and  
operation of  
power systems  
to maintain  
quality, stability,**



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Engineering

**reliability and  
efficiency.**

**Additionally,  
there is a  
growing global  
environmental  
concern  
regarding  
increasing  
emissions from  
the electric  
power generation**

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**required to meet  
rising energy  
needs and**

**support**

**sustainable and**

**inclusive**

**development.**

**The phenomenon**

**of low voltage**

**ride through**

**(LVRT), common**

**to wind energy**

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University,

**systems, is  
discussed, and  
ways to tackle**

**the same are**

**proposed in the  
first chapter.**

**Subsequent  
chapters propose  
methods of  
optimizing a  
sustainable and  
smart microgrid,**

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Engineering

**and supplying  
electricity to  
remote areas of a  
developing  
country with no  
immediate  
possibility of  
national grid  
extension. The  
economic benefit  
and technical  
challenges of**

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Engineering

**forming localized  
minigrid are also  
discussed. The  
book proposes a  
method for  
reliability  
assessment of a  
power grid with  
sustainable  
power  
transportation  
system. The**

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**issue of weak link in power system is very important as it will provide the system operators and planners to take necessary measures to strengthen the system. An approach to**

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**determine the weak parts of the system and its unreliability is proposed. With increasing installation of HVDC power transmission and development of efficient and low cost power**

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**electronic devices, the DC microgrids are becoming a common phenomenon. Their existence together with AC Grids result in Hybrid AC/DC Microgrids, which are**



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**discussed in this  
book. It further  
presents a  
method for  
reliability  
evaluation of a  
distribution  
system with  
network  
reconfiguration  
in the presence  
of distributed**

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**generation. The  
important  
problems in  
sustainable  
energy growth,  
and their  
potential  
solutions  
discussed and  
presented in the  
book should be  
of great interest**

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**to engineers,  
policy makers,  
researchers and  
academics in the  
area of electric  
power  
engineering.**

**This book aims  
to come up with  
views to address  
the queries of  
planners,**

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**policymakers,  
and general  
people for water  
resources  
management  
under  
uncertainty of  
climate change,  
including  
examples from  
Asia and Europe  
with successful**

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**adaptive  
measures to  
change the  
challenge of  
climate change  
into  
opportunities.  
The availability of  
clean water is a  
major global  
challenge for the  
future due to a**

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**rapidly growing  
population and  
urbanization**

**where further  
stress in water  
resources is  
expected due to  
the impact of  
climate change.  
The wide range  
of impacts  
includes for**

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**example changes  
in hydrology,  
moisture  
availability,  
spatial and  
temporal  
variations in  
magnitude of  
stream flow, and  
dwindling of  
water levels with  
adverse effect on**

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**wetlands and  
ecosystem. As a  
consequence,  
water  
management has  
become a  
serious issue  
and was  
identified as a  
global societal  
challenge, and  
climate change**



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**forecasting has become one of the key issues in recent research on sustainable water resources management. With the rapid growth of wireless communications, this book meets**

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**the strong  
demand for  
information and  
new research in  
the area of  
antenna, signal  
processing, and  
microelectronics  
engineering.  
Providing an  
interdisciplinary  
platform, it**

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**brings together  
leading  
academicians,  
scientists, and  
researchers to  
share  
information on  
innovations,  
trends, and  
advances as well  
as the challenges  
encountered in**

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**this field. The chapters address the functional framework in the area of antenna, signal processing, and microelectronics engineering and explore the concepts from the basic to**

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**advanced level.**

**Key features: •**

**Addresses the**

**functional**

**framework in the**

**area of antenna,**

**signal**

**processing, and**

**microelectronics**

**engineering •**

**Covers the major**

**challenges,**

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**issues, and  
advances in  
antennas, signal  
processing, and  
microelectronics  
engineering •**

**Explores  
optimization  
techniques for  
smart antenna  
and  
microelectronics**

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**for different  
applications •**

**Explores**

**different**

**materials and**

**design**

**techniques in the**

**area of antennas**

**and**

**microelectronics**

**Educational**

**institutions in**

**which**

**administrators,  
managers and**

**teachers will be  
working in the**

**late 1990's will be  
far different from  
those of today.**

**Schools, which  
until recently  
were lagging  
behind in the**



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**implementation  
of information  
technology (IT) in  
their  
administration  
and  
management, are  
now attempting  
to close the gap.  
A massive and  
rapid  
computerization**

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**process in  
schools, school  
districts and  
throughout the  
other levels of  
the educational  
system, including  
universities, has  
made computers  
an integral part  
of the  
educational**

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**management**

**scene. A**

**computer on the**

**desk of every**

**educational**

**management**

**statT might**

**become a reality**

**in the near**

**future. The term**

**"IT" includes**

**three main**

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**components:  
hardware,  
software - mainly  
management  
information  
systems  
(MIS)/decision  
support systems  
(DSS) and human  
factors.**

**Presently,  
successful**

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**implementation  
depends on  
adequate**

**software and on  
human factors.**

**MIS/DSSs are  
being**

**implemented  
with the aim of  
providing  
meaningful  
support for**

**school  
employees in  
their daily**

**activities, and to  
improve their  
performance,  
effectiveness  
and efficiency.**

**Much like at  
universities,  
usable and  
accessible**

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**school databases  
are being  
established,  
encompassing  
data on students,  
teachers,  
employees,  
classrooms,  
grade levels,  
courses, student  
achievements  
and behavior,**

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**school space,**

**curriculum,**

**finance,**

**inventory,**

**transportation,**

**etc.**

**Progress in**

**Computing,**

**Analytics and**

**Networking**

**Mobile**

**Computing and**



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**Sustainable  
Informatics  
ICSES 2020**

**Volume 6  
Specific Topics  
in Landslide  
Science and  
Applications  
Toward a New  
Perception and  
Reception  
Women's**

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**Creativity since  
the Modern  
Movement  
(1918-2018)  
Nepal**

This book is a collection of high-quality peer-reviewed research papers presented in the Third International Conference on

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Computing  
Informatics and  
Networks (ICCIN

2020) organized by

the Department of

Computer Science

and Engineering

(CSE), Bhagwan

Parshuram

Institute of

Technology (BPIT),

Delhi, India, during

29–30 July 2020.

The book discusses

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scientific

applications of the

emerging

techniques.

Researchers from

academic and

industry present

their original work

and exchange

ideas, information,

techniques and

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applications in the field of artificial intelligence, expert systems, software engineering, networking, machine learning, natural language processing and high-performance computing.

This book is a part of ICL new book series "ICL

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Contribution to  
Landslide Disaster  
Risk Reduction”  
founded in 2019.

Peer-reviewed  
papers submitted  
to the Fifth World  
Landslide Forum  
were published in  
six volumes of this  
book series. This  
book contains the  
following parts: •

Impact of Large

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Ground

Deformations near

Seismic Faults on

Critically

Important Civil

Infrastructures •

Recent Progress in

the Landslide

Initiating Science •

Earth Observation

and Machine

Learning in

Landslide Science •

General Landslide

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Studies Professor  
Željko Arbanas is  
the Vice President  
of International  
Consortium on  
Landslides. He is a  
Professor of  
Faculty of Civil  
Engineering,  
University of  
Rijeka, Croatia. He  
is the Assistant  
Editor-in-Chief of  
International



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Journal Landslides.

Professor Peter

Bobrowsky is the

President of

International

Consortium on

Landslides. He is a

Senior Scientist of

Geological Survey

of Canada, Ottawa,

Canada. Professor

Kazuo Konagai is

Professor Emeritus

at the University of

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Tokyo and  
Principal  
Researcher at the  
ICL Headquarters.  
He serves as the  
Secretary-General  
of the Fifth World  
Landslide Forum.  
Professor Kyoji  
Sassa is the  
Founding  
President and the  
Secretary-General  
of the International

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Consortium on  
Landslides (ICL).  
He has been the  
Editor-in-Chief of  
International  
Journal Landslides  
since its  
foundation in  
2004. Professor  
Kaoru Takara is  
the Executive  
Director of  
International  
Consortium on

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Landslides. He is a  
Professor and  
Dean of Graduate  
School of  
Advanced  
Integrated Studies  
(GSAIS) in Human  
Survivability  
(Shishu-Kan),  
Kyoto University.  
The Role of  
Scenario Building  
in the Structural  
Prevention of

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Electoral Violence  
Advancing Culture  
of Living with  
Landslides

Managing Water  
Resources under  
Climate

Uncertainty  
Future

Generations

A Way to Reduce  
Poverty?

An Account of  
Handigaun, the

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Ancient Capital of  
Nepal

Understanding and  
Reducing  
Landslide Disaster  
Risk