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***This two-volume set (CCIS***

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***1367-1368) constitutes reviewed and selected papers from the 10th International Advanced Computing Conference, IACC 2020, held in December 2020. The 65 full papers and 2 short papers***

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***presented in two volumes  
were thoroughly reviewed and  
selected from 286  
submissions. The papers are  
organized in the following  
topical sections: Application  
of Artificial Intelligence and***

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***Machine Learning in  
Healthcare; Using Natural  
Language Processing for  
Solving Text and Language  
related Applications; Using  
Different Neural Network  
Architectures for Interesting***

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***applications; Using AI for  
Plant and Animal related  
Applications.- Applications of  
Blockchain and IoT.- Use of  
Data Science for Building  
Intelligence Applications;  
Innovations in Advanced***

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***Network Systems; Advanced Algorithms for Miscellaneous Domains; New Approaches in Software Engineering.***

***This book is a collection of carefully selected works presented at the Third***

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***International Conference on  
Computer Vision & Image  
Processing (CVIP 2018). The  
conference was organized by  
the Department of Computer  
Science and Engineering of  
PDPM Indian Institute of***

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***Information Technology,  
Design & Manufacturing,  
Jabalpur, India during  
September 29 - October 01,  
2018. All the papers have been  
rigorously reviewed by the  
experts from the domain. This***



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***2 volume proceedings include technical contributions in the areas of Image/Video Processing and Analysis; Image/Video Formation and Display; Image/Video Filtering, Restoration, Enhancement and***

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Image/Video Storage, Retrieval  
and Authentication;  
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***Analysis; Biological and  
Perceptual Models for  
Image/Video Processing;  
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Probability and uncertainty  
handling for Image/Video***

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***Processing; and Motion and Tracking.***

***Disputes between peers as well as between supervisors-subordinates happen numerous times a week in the corporate environment.***

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***Although the win-win concept is the ideal orientation, the notion that there can only be one winner is constantly being reinforced in some cultures. This kind of mentality can be destructive when***

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***communicating with different cultural groups by creating barriers in negotiation, resolution, and compromise; it can also lead the "loser" to feel mediocre. When the win-win orientation is absent in***

***negotiation, different responses to conflict may be observed. Strategic Approaches for Conflict Resolution in Organizations: Emerging Research and Opportunities provides***

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***emerging research on  
approaches for conflict  
resolution in organizations  
whereby it is possible to  
establish congenial ambiances  
in different organizations,  
leading to better outcomes***



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***and performance. Featuring coverage on a broad range of topics such as organizational change, leaderships roles, and organizational change, this book is ideally designed for managers, human resources***

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***officials, executives,  
researchers, scholars,  
professors, industry  
professionals, and students  
interested in the current  
research behind the reduction,  
elimination, and termination of***

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***all forms of organizational  
conflict.***

***This book presents the select  
peer-reviewed proceedings of  
the International Conference  
on Signal and Data Processing  
(ICSDP) 2019. It examines and***

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***deliberates on the recent progresses in the areas of communication and signal processing. The book includes topics on the recent advances in the areas of wired and wireless communication, low***

***complexity architecture of  
MIMO receivers, applications  
on wireless sensor networks  
and internet of things, signal  
processing, image processing  
and computer vision, VLSI  
embedded systems, cognitive***

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***networks, power electronics  
and automation, mechatronics  
based applications, systems  
and control, cognitive science  
and machine intelligence,  
information security and big  
data. The contents of this book***

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***will be useful for beginners,  
researchers, and  
professionals interested in the  
area of communication, signal  
processing, and allied fields.***

**SOLID STATE DEVICES**

**ICSECM 2019**

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***Campus Plus 2018  
Select Proceedings of ICSDP  
2019  
Information and  
Communication Technology  
for Competitive Strategies  
(ICTCS 2020)***

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Be Found Highly Useful By  
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In Mailing Their Publicity  
Material. The Directory  
Would Also Be Useful To  
Librarians And Others  
Concerned With Educational  
Institutions And  
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Information About  
Libraries In India.

This book gathers peer-  
reviewed contributions  
presented at the  
International Conference  
on Structural Engineering

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and Construction  
Management (SECON'21),  
held on 12-15 May 2021.  
The meeting served as a  
fertile platform for  
discussion, sharing sound  
knowledge and introducing

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novel ideas on issues related to sustainable construction and design for the future. The respective contributions address various aspects of numerical modeling and

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simulation in structural engineering, structural dynamics and earthquake engineering, advanced analysis and design of foundations, BIM, building energy management, and



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technical project management. Accordingly, the book offers a valuable, up-to-date tool and essential overview of the subject for scientists and practitioners alike,

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and will inspire further investigations and research. .

Due to the complexity, and heterogeneity of the smart grid and the high volume of information to be

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processed, artificial intelligence techniques and computational intelligence appear to be some of the enabling technologies for its future development and

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success. The theme of the book is "Making pathway for the grid of future" with the emphasis on trends in Smart Grid, renewable interconnection issues, planning-operation-

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control and reliability of  
grid, real time monitoring  
and protection, market,  
distributed generation and  
power distribution issues,  
power electronics  
applications, computer-IT

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and signal processing applications, power apparatus, power engineering education and industry-institute collaboration. The primary objective of the book is

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to review the current state of the art of the most relevant artificial intelligence techniques applied to the different issues that arise in the smart grid development.

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Designed as a text for undergraduate students of engineering in Electrical, Electronics, and Computer Science and IT disciplines as well as undergraduate students (B.Sc.) of



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physics and electronics as  
also for postgraduate  
students of physics and  
electronics, this compact  
and accessible text  
endeavours to simplify the  
theory of solid state

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devices so that even an average student will be able to understand the concepts with ease. The authors, Prof. Somanathan Nair and Prof. S.R. Deepa, with their rich and long

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experience in teaching the subject, provide a detailed discussion of such topics as crystal structures of semiconductor materials, Miller indices, energy

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band theory of solids,  
energy level diagrams and  
mass action law. Besides,  
they give a masterly  
analysis of topics such as  
direct and indirect gap  
materials, Fermi-Dirac

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statistics, electrons in  
semiconductors, Hall  
effect, PN junction  
diodes, Zener and  
avalanche breakdowns,  
Schottky barrier diodes,  
bipolar junction

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transistors, MOS field-effect transistors, Early effect, Shockley diodes, SCRs, TRIAC, and IGBTs. In the Second Edition, two new chapters on optoelectronic devices and

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students develop grasp of the contents. This fully illustrated and well-organized text should prove invaluable to students pursuing various courses in engineering and



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concepts in an easy-to-  
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numerical problems. •  
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Management

Green Buildings and

Sustainable Engineering

This book comprises the  
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and Sustainable Engineering  
(GBSE 2018), which focused on

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the theme “Transforming our Built Environment through Innovation and Integration towards a Smart and Sustainable Future”. The papers included address all aspects of green buildings and sustainability practices in civil engineering, and

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offer a valuable reference resource for researchers, practitioners, and policy makers. India, bounded by the majestic Himalayan ranges in the North and edged by an endless stretch of golden beaches, is the land of hoary tradition and culturally

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diverse. The vivid kaleidoscope of landscapes, glorious historical sites and royal cities, misty mountain hideaways, colourful people, rich civilizations and festivities craft India Incredible. Recent years have witnessed the educational scene, especially the



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higher education sector in the State undergoing a sea change in respect of quality, diversity and accessibility in tune with the global trends. Kerala's surge in the educational front is to be viewed in the backdrop of the country's great legacy in

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education. India has been a major seat of learning for thousands of years. The country was home to Takshashila, the first university in the world and Aryabhata, the inventor of the digit Zero. In fact, education in Kerala has now become more value-added and

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affordable, thanks to the proactive initiatives of the State Government and active involvement of the private sector. Moreover, in the higher education market, Kerala has a significant edge in respect of cost which means that there would be

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growing influx of candidates into the state from outside the state for better and affordable professional education in the days to come. With the most sought-after professionals and the excellent network of institutes, Kerala is becoming the very

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preferred educational destination in the world. And, we are equipped for you with some elucidations which step-up her significance in the educational map. In Campus Plus, we propose some valuable information along with a number of educational

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institutes in the State which will be useful for the students and parents in the higher education scenario.

This book presents selected papers from the 7th International Congress on Computational Mechanics and Simulation, held at

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IIT Mandi, India. The papers discuss the development of mathematical models representing physical phenomena and apply modern computing methods to analyze a broad range of applications including civil, offshore, aerospace,

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automotive, naval and nuclear structures. Special emphasis is given on simulation of structural response under extreme loading such as earthquake, blast etc. The book is of interest to researchers and academics from civil engineering, mechanical



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engineering, aerospace  
engineering, materials  
engineering/science, physics,  
mathematics and other  
disciplines.

This book constitutes the  
proceedings of the First  
International Conference on

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Emerging Trends in Engineering (ICETE), held at University College of Engineering and organised by the Alumni Association, University College of Engineering, Osmania University, in Hyderabad, India on 22-23 March 2019. The proceedings of the ICETE are

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published in three volumes, covering seven areas: Biomedical, Civil, Computer Science, Electrical & Electronics, Electronics & Communication, Mechanical, and Mining Engineering. The 215 peer-reviewed papers from around the globe present the latest state-of-

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the-art research, and are useful to postgraduate students, researchers, academics and industry engineers working in the respective fields. This volume presents state-of-the-art, technical contributions in the areas of civil, mechanical and

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mining engineering, discussing sustainable developments in fields such as water resource engineering, structural engineering, geotechnical and transportation engineering, mining engineering, production and industrial engineering,

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thermal engineering, design  
engineering, and production  
engineering.

CVIP 2018, Volume 2

Proceedings of the 3rd  
International Conference on  
Materials, Mechanics and  
Management (IMMM 2017), July

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13-15, 2017, Trivandrum, Kerala,  
India

Indian Trade Journal  
Proceedings of the 10th  
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Structural Engineering and  
Construction Management  
Emerging Research and

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Opportunities

Proceedings of SECON 2020

Emerging Trends in Smart

Modelling Systems and Design

*The book provides insights into*

*the Second International*

*Conference on Computer Vision*



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*& Image Processing  
(CVIP-2017) organized by  
Department of Computer  
Science and Engineering of  
Indian Institute of Technology  
Roorkee. The book presents  
technological progress and*

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*research outcomes in the area of image processing and computer vision. The topics covered in this book are image/video processing and analysis; image/video formation and display;*

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*image/video filtering,  
restoration, enhancement and  
super-resolution; image/video  
coding and transmission;  
image/video storage, retrieval  
and authentication;  
image/video quality; transform-*

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*based and multi-resolution  
image/video analysis;  
biological and perceptual  
models for image/video  
processing; machine learning  
in image/video analysis;  
probability and uncertainty*

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*handling for image/video  
processing; motion and  
tracking; segmentation and  
recognition; shape, structure  
and stereo.*

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*and soul to prepare its  
graduates to be future  
leaders..*

*This book presents selected  
papers from the 2021  
International Conference on  
Electrical and Electronics*

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*Engineering (ICEEE 2020), held on January 2-3, 2021. The book focuses on the current developments in various fields of electrical and electronics engineering, such as power generation, transmission and*

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*distribution; renewable energy  
sources and technologies;  
power electronics and  
applications; robotics; artificial  
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instrumentation; electronics*

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*devices, circuits and systems;  
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communication; RF and  
microwaves; VLSI; and signal  
processing. The book is a  
valuable resource for  
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*professionals alike.*

*This book gathers selected  
papers presented at the 5th  
International Conference on  
Intelligent Data*

*Communication Technologies  
and Internet of Things (ICICI*

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*2021), organized by JCT  
College of Engineering and  
Technology, Coimbatore, Tamil  
Nadu, India during 27 28  
August 2021. This book solicits  
the innovative research ideas  
and solutions for almost all the*

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*intelligent data intensive theories and application domains. The general scope of this book covers the design, architecture, modeling, software, infrastructure and applications of intelligent*

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*communication architectures and systems for big data or data-intensive applications. In particular, this book reports the novel and recent research works on big data, mobile and wireless networks, artificial*



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*intelligence, machine learning,  
social network mining,  
intelligent computing  
technologies, image analysis,  
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systems, data security and  
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*Advances in Computer Science  
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*Computer Science and  
Engineering*

*Campus Plus 2017*

*Technology and Society*

*CVIP 2017, Volume 1*

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*IEEE-International Conference  
on Power Electronics and  
Renewable Energy Applications  
(PEREA 2020)*

*Volume-I: Materials to  
Structures*

*Proceedings of AJWTF7 2018*

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**This book gathers peer-reviewed contributions presented at the 1st International Conference on Structural Engineering and Construction Management (SECON'20), held in Angamaly, Kerala, India, on 14-15 May 2020.**

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**The meeting served as a fertile platform for discussion, sharing sound knowledge and introducing novel ideas on issues related to sustainable construction and design for the future. The respective**

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**contributions address various aspects of numerical modeling and simulation in structural engineering, structural dynamics and earthquake engineering, advanced analysis and design of foundations, BIM, building**

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**energy management, and technical project management. Accordingly, the book offers a valuable, up-to-date tool and essential overview of the subject for scientists and practitioners alike, and will inspire further**

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**investigations and research.  
India, bounded by the majestic  
Himalayan ranges in the North  
and edged by an endless stretch  
of golden beaches, is the land of  
hoary tradition and cultural  
diverse. Vivid kaleidoscope of**



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**landscapes, glorious historical sites and royal cities, misty mountain hideaways, colourful people, rich civilizations and festivities craft India Incredible. Recent years have witnessed the educational scene, especially**

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**the higher education sector in the State undergoing a sea change in respect of quality, diversity and accessibility in tune with the global trends. Kerala's surge in the educational front is to be viewed in the**

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**backdrop of the country's great legacy in education. India has been a major seat of learning for thousands of years. The country was home to Takshashila, the first university in the world and Aryabhama, the inventor of the**

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**digit Zero. In fact, education in Kerala has now become more value added and affordable, thanks to the pro-active initiatives of the State Government and active involvement of the private**

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**sector. Moreover, in the higher education market, Kerala has a significant edge in respect of cost which means that there would be growing influx of candidates into the state from outside the state for better and**

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**affordable professional education in the days to come. With the most sought after professionals and excellent network of institutes Kerala is becoming the very preferred educational destination in the**

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**world. And, we are equipped for you with some elucidations which step-up her significance in the educational map. In Campus Plus, we propose some valuable information along with a number of educational**

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**institutes in the State which will be useful for the students and parents in the higher education scenario.**

**This book is evolved from the experience of the author who taught all lab courses in his**



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**three decades of teaching in various universities in India. The objective of this lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories. This**

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**book enable the students to learn:**

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- Analog and digital communication techniques
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- Microwave

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Optical communication devices  
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and Communication  
Engineering, Electrical and  
Electronics Engineering,**

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• Diploma (Engineering)  
These proceedings present a**



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**selection of papers presented at  
the 3rd International Conference  
on Materials Mechanics and  
Management 2017 (IMMM 2017),  
which was jointly organized by  
the Departments of Civil  
Engineering, Mechanical**

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**Engineering and Architecture of  
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Trivandrum. Developments in  
the fields of materials,  
mechanics and management  
have paved the way for overall  
improvements in all aspects of**

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**human life. The quest for meeting the requirements of the rapidly increasing population has led to revolutionary construction and production technologies aiming at optimum management and use of natural**

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**resources. The objective of this conference was to bring together experts from academic institutions, industries, research organizations and professionals for sharing of knowledge, expertise and experience in the**

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**emerging trends related to Civil Engineering, Mechanical Engineering and Architecture. IMMM 2017 provided opportunities for young researchers to actively engage in research discussions, new**

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**research interests, research  
ethics and professional  
development.**

**Proceedings of 3rd International  
Conference on Computer Vision  
and Image Processing  
Universities Handbook**

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**Recent Advances in  
Computational Mechanics and**

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**Proceedings of 2nd International  
Conference on Computer Vision  
& Image Processing  
Second International  
Conference, CCSIT 2012,  
Bangalore, India, January 2-4,**



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## **2012. Proceedings, Part II Advances in Structural Mechanics and Applications**

This book presents a collection of the best papers from the Seventh Asian Joint Workshop on Thermophysics and Fluid Science (AJWTF7 2018), which was held in Trivandrum, India, in November 2018.

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The papers highlight research outputs from India, China, Japan, Korea and Bangladesh, and many of them report on collaborative efforts by researchers from these countries. The topics covered include Aero-Acoustics, Aerodynamics, Aerospace Engineering, Bio-Fluidics, Combustion, Flow Measurement, Control

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and Instrumentation, Fluid Dynamics,  
Heat and Mass Transfer,  
Thermodynamics, Mixing and Chemically  
Reacting Flows, Multiphase Flows,  
Micro/Nano Flows, Noise/NO<sub>x</sub>/SO<sub>x</sub>  
Reduction, Propulsion, Transonic and  
Supersonic Flows, and Turbomachinery.  
The book is one of the first on the topic to

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gather contributions from some of the leading countries in Asia. Given its scope, it will benefit researchers and students working on research problems in the thermal and fluid sciences.

Papers presented at a national seminar organized by Kerala State Higher Education Council during 1-2 February

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2008.

India, bounded by the majestic Himalayan ranges in the North and edged by an endless stretch of golden beaches, is the land of hoary tradition and cultural diversity. A vivid kaleidoscope of landscapes, glorious historical sites and royal cities, misty mountain hideaways,

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colourful people, rich civilizations and festivities craft India Incredible. Recent years have witnessed the educational scene, especially the higher education sector in the State undergoing a sea change in respect of quality, diversity and accessibility in tune with the global trends. Kerala's surge in the educational front is

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to be viewed in the backdrop of the country's great legacy in education. India has been a major seat of learning for thousands of years. The country was home to Takshashila, the first university in the world and Aryabhama, the inventor of the digit Zero. In fact, education in Kerala has now become more value-added and

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affordable, thanks to the proactive initiatives of the State Government and the active involvement of the private sector. Moreover, in the higher education market, Kerala has a significant edge in respect of cost which means that there would be a growing influx of candidates into the state from outside the state for better and



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affordable professional education in the days to come. With the most sought-after professionals and an excellent network of institutes, Kerala is becoming the very preferred educational destination in the world. And, we are equipped for you with some elucidations which step-up her significance on the educational map. In

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Campus Plus, we propose some valuable information along with a number of educational institutes in the State which will be useful for the students and parents in the higher education scenario.

This book is a collection of papers presented at the International Conference on Intelligent Computing, Information and

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Control Systems (ICICCS 2020). It encompasses various research works that help to develop and advance the next-generation intelligent computing and control systems. The book integrates the computational intelligence and intelligent control systems to provide a powerful methodology for a wide range of data

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analytics issues in industries and societal applications. The book also presents the new algorithms and methodologies for promoting advances in common intelligent computing and control methodologies including evolutionary computation, artificial life, virtual infrastructures, fuzzy logic, artificial immune systems, neural

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networks and various neuro-hybrid methodologies. This book is pragmatic for researchers, academicians and students dealing with mathematically intransigent problems.

Advances in Signal and Data Processing  
Proceedings of ICEEE 2021  
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conference is going to benefit the researchers, academicians, students and professionals in getting enlightened on latest technologies on structural mechanics, structure and infrastructure engineering.

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Further, work on practical applications of developed scientific methodologies to civil structural engineering will make the proceedings more interesting and useful to practicing engineers and structural designers.



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This book presents various video processing methodologies that are useful for distance education. The motivation is to devise new multimedia technologies that are suitable for better

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representation of instructional videos by exploiting the temporal redundancies present in the original video. This solves many of the issues related to the memory and bandwidth limitation of lecture

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videos. The various methods described in the book focus on a key-frame based approach which is used to time shrink, repackage and retarget instructional videos. All the methods need a preprocessing step of shot

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detection and recognition, which is separately given as a chapter. We find those frames which are well-written and distinct as key-frames. A super-resolution based image enhancement scheme is suggested for

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refining the key-frames for better legibility. These key-frames, along with the audio and a meta-data for the mutual linkage among various media components form a repackaged lecture video, which on a programmed

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playback, render an estimate of the original video but at a substantially compressed form. The book also presents a legibility retentive retargeting of this instructional media on mobile devices with limited

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display size. All these technologies contribute to the enhancement of the outreach of distance education programs. Distance education is now a big business with an annual turnover of over 10-12

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billion dollars. We expect this to increase rapidly. Use of the proposed technology will help deliver educational videos to those who are less endowed in terms of network bandwidth availability and to those



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everywhere who are even on a move by delivering it effectively to mobile handsets (including PDAs). Thus, technology developers, practitioners, and content providers will find the material very useful.

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This book contains the best selected research papers presented at ICTCS 2020: Fifth International Conference on Information and Communication Technology for Competitive Strategies. The conference was held at

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Jaipur, Rajasthan, India,  
during 11-12 December 2020.  
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topics pertaining to ICT and  
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applications. This book contains papers mainly focused on ICT for computation, algorithms and data analytics, and IT security.

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influenced our lives, morals and culture, for better and for worse. The book also looks at recent developments in information and space technology, and closely examines the many facets of our prospects for survival

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in a safe and sustained world. Students of science and the humanities, as well as general readers interested in the subjects will find this lucid, engaging text an invaluable introduction to this vast,

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Proceedings of ICSCN 2020

This book highlights  
current research and  
developments in the area  
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and Construction Management, which are important disciplines in Civil Engineering. It covers the following topics and categories of Structural Engineering.

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knowledge for construction management practices, new tools and technologies on local and global levels in civil engineering which can mitigate the negative effects of built

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