

Read Book  
Building Services  
Engineering  
Lecture Notes

*Building  
Services  
Engineering  
Lecture  
Notes*

This book reports on cutting-edge research and best practices in developing innovative service systems. It covers issues

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concerning the suitability of a given system for human use, human services, and excellent human experiences. It explores a wide range of ways in which human factors in engineering, ergonomics, human–computer interaction (HCI), cognitive engineering, and many other

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disciplines can contribute to the design and management of service systems. It considers aspects related to cost effectiveness, ethics, and privacy, among others, and covers applications in many areas, from healthcare to education, transportation, and the economy. Based on the AHFE 2021 Conference

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on the Human Side of  
Service Engineering,  
held virtually on 25–29  
July, 2021, from USA,  
this book provides  
readers with a  
comprehensive  
overview of current  
research and future  
challenges in the field of  
service engineering,  
together with practical  
insights into the  
development of

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innovative services for various kinds of organizations.

This book shines a spotlight on software-centric networks and their emerging service environments. The authors examine the road ahead for connectivity, for both humans and 'things', considering the rapid changes that have

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shaken the industry. The book analyses major catalytic shifts that are shaping the communications world: softwarization, virtualization, and cloud computing. It guides the reader through a maze of possible architectural choices, driven by discriminating and sometimes conflicting business considerations.

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The new ICT capabilities lead us toward smarter environments and to an ecosystem where applications are backed up by shared networking facilities, instead of networks that support their own applications. Growing user awareness is a key driver towards the softwarization process. Softwarization

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disrupts the current status quo for equipment, development, networks, operations and business. It changes radically the value chain and the involved stakeholders. The dilemma is between a 'slow burn' traditional step-by-step approach and a bold transformation of the whole infrastructure and



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business models. This book is essential reading for those seeking to build user-centric communication networks that support independent agile and smart applications. “The book gives an insightful account of modern telecom networks, pinpointing the radical transformations of the last 20 years. This is the

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perfect read for those who are interested in the grand challenges of networks and in the socio-economic reasons why the telecom industry to embrace the Internet of Things and cyber-physical systems.” Prof. Antonio Liotta, Eindhoven University of Technology “This book fulfills an urgent need to

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thoroughly analyze the entanglement of network and software architectures by taking into account the increasing softwarization. It highlights important issues behind today's business models and opens the road for sustainable future approaches to provide user appreciated

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valuable services.” Dr.

Eng. Hendrik Berndt,

former CTO of NTT

DOCOMO

Communications

Laboratories Europe

This 6th edition includes

numerous revisions,

amendments and

additions in line with

ongoing practice and

legislative changes in

building construction.

Included are features of

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construction that are designed to economise and manage the use of fuel energy in buildings and limit the effect on atmospheric pollution. This volume is the published Proceedings of selected papers from the IFAC Symposium, Swansea, 11-13 July 1988, where a forum was provided for discussion of the latest

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advances and techniques in the education of control and instrument engineers. Seven major topics were covered to aid lecturers in understanding, developing and presenting systems engineering - control and measurement - as a subject to undergraduate and postgraduate students. The teaching

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of real-time computer control as a topic and laboratory experiments for both continuous and discrete systems were discussed, as was process control, with the emphasis on providing the student with engineering experience by using scaled-down equipment which would teach practical skills.

Included in the

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Proceedings are papers on measurement and instrumentation, an area felt to be neglected within academic instruction. The development of software tools for systems design within systems engineering was included, as was the exchange of teaching packages and methods between academics, and



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the education curriculum of systems engineering within developing countries. These Proceedings will prove to be a useful up-to-date guide and reference source for all lecturers and professors involved in curriculum development and the teaching of control and measurement in systems engineering.

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Proceedings of the  
Second International  
Conference of  
Construction,  
Infrastructure, and  
Materials  
Advances in Building  
Energy Research  
IT Security  
Management  
Best Practice for  
Selection and  
Combination of  
Intelligent Methods

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Building Intelligent

Electronic Services

IT Securiteers - Setting  
up an IT Security

Function

Proceedings of the 8th  
International

Symposium on

Heating, Ventilation

and Air Conditioning

is based on the 8th

International

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Symposium of the  
same name  
(ISHVAC2013),  
which took place in  
Xi'an on October  
19-21, 2013. The  
conference series was  
initiated at Tsinghua  
University in 1991 and  
has since become the  
premier international  
HVAC conference  
initiated in China,

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playing a significant part in the development of HVAC and indoor environmental research and industry around the world. This international conference provided an exclusive opportunity for policy-makers, designers, researchers, engineers

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and managers to share  
their experience.

Considering the recent  
attention on building  
energy consumption  
and indoor  
environments,  
ISHVAC2013  
provided a global  
platform for  
discussing recent  
research on and  
developments in

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different aspects of HVAC systems and components, with a focus on building energy consumption, energy efficiency and indoor environments. These categories span a broad range of topics, and the proceedings provide readers with a good general overview of

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recent advances in different aspects of HVAC systems and related research. As such, they offer a unique resource for further research and a valuable source of information for those interested in the subject. The proceedings are intended for



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researchers, engineers  
and graduate students  
in the fields of  
Heating, Ventilation  
and Air Conditioning  
(HVAC), indoor  
environments, energy  
systems, and building  
information and  
management. Angui Li  
works at Xi'an  
University of  
Architecture and

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Technology, Yingxin  
Zhu works at Tsinghua  
University and Yuguo  
Li works at The  
University of Hong  
Kong.

This book presents the  
selected peer-reviewed  
proceedings of the  
International  
Conference on Recent  
Trends and  
Innovations in Civil

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Engineering  
(ICRTICE 2019). The

volume focuses on latest research and advances in the field of civil engineering and materials science such as design and development of new environmental materials, performance testing and verification of

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smart materials,  
performance analysis  
and simulation of steel  
structures, design and  
performance  
optimization of  
concrete structures,  
and building materials  
analysis. The book  
also covers studies in  
geotechnical  
engineering, hydraulic  
engineering, road and

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bridge engineering,  
building services  
design, engineering  
management, water  
resource engineering  
and renewable energy.

The contents of this  
book will be useful for  
students, researchers  
and professionals  
working in civil  
engineering.

This book includes a

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selection of reviewed papers presented at the 2016 China Academic Conference on Printing, Packaging Engineering & Media Technology, held on November 25-27, 2016 in Xi'an, China. The conference was jointly organized by China Academy of Printing Technology,

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Xi'an University of  
Technology and  
Stuttgart Media  
University of  
Germany. The  
proceedings cover the  
recent outcomes on  
color science and  
technology, image  
processing technology,  
digital media  
technology, digital  
process management

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technology in  
packaging and  
packaging etc. They  
will be of interest to  
university researchers,  
R&D engineers and  
graduate students in  
graphic  
communications,  
packaging, color  
science, image  
science, material  
science, computer



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science, digital media  
and network

technology fields.

This book provides a  
comprehensive,  
systematic overview of  
original theoretical,  
experimental, and  
numerical studies in  
the building services  
engineering domain. It  
brings together  
different strands of the

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topic, guided by the two key features of energy savings and reduction of the pollutant emissions. Technical, economic, and energy efficiency aspects related to the design, modelling, optimisation, and operation of diverse building services systems are explored.

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This book includes various theoretical studies, numerical and optimisation models, experiments, and applications in this field, giving an emphasis to: indoor environment quality assurance; energy analysis, modelling, and optimisation of heating systems;

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improving the energy performance of refrigeration and air-conditioning systems; valorising the solar and geothermal energies; analysis of thermal energy storage technologies; hydraulic simulation and optimisation of water distribution systems; and

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improving the energy efficiency of water pumping. With 11 pedagogically structured chapters, containing numerous illustrations, tables, and examples, this book provides researchers, lecturers, engineers, and graduate students with a thorough guide to

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building service  
engineering.

Selected Papers from  
the IFAC Symposium,  
Swansea, UK, 11-13  
July 1988

Experience and  
Challenges from  
Russian Cities  
Proceedings of the 8th  
International  
Symposium on  
Heating, Ventilation

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and Air Conditioning  
ICCIM 2021, 26 July,  
2021, Jakarta,  
Indonesia

Construction  
Productivity in the  
Multilayer  
Subcontracting System  
Proceedings of the  
11th World Congress  
on Engineering Asset  
Management  
Building Construction

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Handbook

*These proceedings gather selected peer-reviewed papers from the 11th World Congress on Engineering Asset Management (WCEAM), which was held in Jiuzhaigou, China, on 25–28 July, 2016. These proceedings cover a wide range*



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***of topics in  
engineering asset  
management,  
including: · strategic  
asset management; ·  
condition  
monitoring and  
diagnostics; ·  
integrated intelligent  
maintenance; ·  
sensors and  
devices; ·  
information quality  
and management; ·***

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***sustainability in  
asset management; ·  
asset performance  
and knowledge  
management; · data  
mining and AI techni  
ques in asset  
management; ·  
engineering  
standards; and ·  
education in  
engineering asset  
management. The  
breadth and depth***

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***of these state-of-the-art, comprehensive proceedings make them an excellent resource for asset management practitioners, researchers and academics, as well as undergraduate and postgraduate students.***

***This book gathers the latest advances,***

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***innovations, and applications in the field of information systems and construction engineering, as presented by researchers and engineers at the International Scientific Conference Building Life-cycle Management.***

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***Information Systems  
and Technologies,  
held in Moscow,  
Russia on  
November 26, 2021.  
It covers highly  
diverse topics,  
including  
Information  
modeling  
technologies in  
building life-cycle  
management,  
Mathematical***

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***models and methods for building life-cycle management, Management of organizational processes in construction. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous***

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***exciting ideas that  
will spur novel  
research directions  
and foster  
multidisciplinary  
collaborations in the  
construction  
industry.***

***'Several high quality  
scientific journals  
are published in the  
area of building  
energy and  
indoor/outdoor***

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*environment;  
however, one has  
been missing.  
Advances in  
Building Energy  
Research fills the  
gap. I recommend  
ABER to all  
technical libraries,  
research institutes  
and universities. It  
should also be used  
by construction  
companies and*



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*those manufacturing  
building materials  
and building  
products.' Professor  
Olli Seppänen,  
President of REHVA  
(Federation of  
Heating and Air-  
conditioning  
Associations)  
'Advances in  
Building Energy  
Research is a  
unique index. It will*

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***be an inexhaustible resource for energy related sciences and a continuous inspiration for architects around the world.' N. Fintikakis, Architect and Director of UIA-ARES WP (Architecture and Renewable Energy Sources) 'The collection of articles***

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***provides an encyclopaedic overview of the state of the art of the subject; and they are written clearly and concisely. This volume is a must for researchers and advanced students.'***  
***Professor Edward Ng, Department of Architecture, The Chinese University***

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***of Hong Kong 'This is a very valuable first volume of a new series with each section written by leaders in their respective fields. Contributions cover a range of related topics and present evaluations of contemporary issues in building energy research that***

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***give the reader an immediate and clear insight.'*** ***Dr Adrian Pitts, Senior Lecturer in Energy, Environment and Sustainability, University of Sheffield Advances in Building Energy Research (ABER) offers state-of-the-art information on the environmental***

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***science and performance of buildings, linking new technologies and methodologies with the latest research on systems, simulations and standards. As stringently reviewed as a journal but with the breadth of a book, this annual***

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*volume brings together invited contributions from the foremost international experts on energy efficiency and environmental quality of buildings. Spanning a broad range of technical subjects, this is a 'must have' reference on global developments in the*

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***field, suitable for architects and building engineers, environmental engineers, industry professionals, students, teachers and researchers in building science, technical libraries and laboratories. This first volume covers double skin fa ades; artificial***



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***intelligence in buildings; indoor thermal comfort and the progress of the adaptive approach; heat island research and the effect of urban microclimate; the use of techniques such as high dynamic range imaging and satellite remote sensing; and vital management***

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***and monitoring approaches such as post-occupancy evaluation.***

***This book comprises the proceedings of the Annual Conference of the Canadian Society of Civil Engineering 2021. The contents of this volume focus on specialty***

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***conferences in  
construction,  
environmental,  
hydrotechnical,  
materials,  
structures,  
transportation  
engineering, etc.  
This volume will  
prove a valuable  
resource for those  
in academia and  
industry.***

***Building Life-cycle***

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**Management.**

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**Information Systems  
and Technologies  
Select Proceedings  
of ICSCBM 2018  
Engineering News  
Engineering Asset  
Management 2016  
Energy Footprints of  
the Bio-refinery,  
Hotel, and Building  
Sectors  
IAENG Transactions  
on Engineering**

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Sciences

***Lecture Notes  
Advanced Graphic  
Communications  
and Media  
Technologies  
Do Smart  
Adaptive  
Systems Exist?  
is intended as  
a reference  
and a guide  
summarising***

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***and focusing  
on best  
practices when  
using  
intelligent  
techniques and  
building  
systems  
requiring a  
degree of  
adaptation and  
intelligence.***

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***It is therefore not intended as a collection of the most recent research results, but as a practical guide for experts from other areas***

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**and industrial  
users  
interested in  
building  
solutions to  
their problems  
using  
intelligent  
techniques.  
One of the  
main issues  
covered is an**



***attempt to  
answer the  
question of  
how to select  
and/or combine  
suitable  
intelligent  
techniques  
from a large  
pool of  
potential  
solutions.***

***Another attractive feature of the book is that it brings together experts from neural network, fuzzy, machine learning, evolutionary***

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***and hybrid  
systems  
communities  
who will  
provide their  
views on how  
these  
different  
intelligent  
technologies  
have  
contributed***

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***and will  
contribute to  
creation of  
smart adaptive  
systems of the  
future.***

***This volume  
contains  
revised and  
extended  
research  
articles***

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***written by  
prominent  
researchers  
participating  
in the  
international  
conference on  
Advances in  
Engineering  
Technologies  
and Physical  
Science was***

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***held in Hong  
Kong, 13-15  
March, 2013.  
Topics covered  
include  
engineering  
physics,  
engineering  
mathematics,  
scientific  
computing,  
control***

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***theory,  
automation,  
artificial  
intelligence,  
electrical  
engineering,  
and industrial  
applications.  
The book  
offers the  
state of art  
of tremendous***

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***advances in  
engineering  
technologies  
and physical  
science and  
applications,  
and also  
serves as an  
excellent  
reference work  
for  
researchers***



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***and graduate  
students  
working  
with/on  
engineering  
technologies  
and physical  
science and  
applications.  
The book  
consists of  
original***

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**research  
papers in the  
field of  
Technological  
Advancements  
in  
Construction.  
It covers such  
topics as non-  
destructive  
testing,  
structural**

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***health  
monitoring,  
innovative  
composite  
materials,  
strengthening  
and  
rehabilitation  
of buildings  
and  
structures,  
seismic***

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***resilience of  
structures,  
thermal  
protection of  
buildings,  
construction  
and operation  
of buildings  
and structures  
in extreme  
climatic  
conditions,***

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***structural  
dynamics and  
vibration  
control, and  
green  
construction.  
The book  
contains  
latest  
information on  
structural  
mechanics of***

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***composite  
materials and  
structures,  
theoretical  
and  
computational  
modeling of  
new materials  
and  
structures,  
experimental  
and numerical***

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***analysis in  
building  
rehabilitation  
and  
strengthening,  
analytical,  
numerical and  
experimental  
methodologies  
for the  
analysis of  
multilayered***

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***structures,  
and advanced  
methods for  
seismic  
performance  
evaluation of  
building  
structures.  
The book  
includes  
original  
research and***



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***application  
papers of high  
academic  
level, where  
significant  
scientific  
novelty is  
clearly  
demonstrated.  
The book  
presents a  
valuable tool***

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***for  
researchers  
and  
construction  
professionals.  
Course on  
Engineering of  
Building  
Services  
Lecture  
NotesAdvances  
in Building***

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***Services Engineering Studies,  
Researches and Applications  
Springer Nature  
Sustainable  
Building  
Materials and  
Construction  
Digital  
Technologies  
in***

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***Construction  
Engineering  
Volume 1:  
Indoor and  
Outdoor  
Environment  
Engineering  
News and  
American  
Contract  
Journal  
Research in***

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***Education  
Proceedings of  
the 5th  
International  
Conference on  
Rehabilitation  
and  
Maintenance in  
Civil  
Engineering  
Proceedings of  
3rd***

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***International  
Sustainable  
Buildings  
Symposium  
(ISBS 2017)***

This book comprises selected proceedings of the 2nd International Conference of Construction, Infrastructure, and

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Materials (ICCIM  
2021) focusing on  
topics such as  
structural  
engineering,  
construction  
materials,  
geotechnical  
engineering,  
transportation system  
and engineering,  
construction  
management, water

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engineering, and infrastructure development. Its content will be useful to researchers, educators, practitioners, and policymakers alike. This book offers an overview of Russian and international experience in



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developing the concept of future cities and its practical implementation. The concept of future cities is associated with several important trends. The first trend is the sustainable development of the urban environment and the implementation of eco-

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friendly technologies and materials in civil construction, industrial and power plants. The harmonious coexistence of the citizens with all forms of nature in the urban habitat becomes a great value. The second trend is the individualization of

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the aesthetical and architectural image of the future cities. The city's unique flavor based on the blending of the historical legacy and architectural traditions is now as important as the utility of the environment. The third trend is the digitalization of the

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urban environment with the use of state-of-the-art sensors, information and communication technologies, and data science. The efficiency of operations and services achieved by the extensive use of complex IoT networks becomes a value as well. The last trend is

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the adaptation of the urban and social environment for individual demands of a community and a person. Individual comfort and safety are now more important than ever before. By addressing these trends, the volume discusses local and international plans,

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practices, and technologies aimed at the development and implementation of future cities.

The Building Services Handbook summarises concisely, in diagrams and brief explanations, all elements of building services. Practice, techniques and

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procedures are clearly defined with supplementary references to regulations and relevant standards. This is an essential text for all construction/building services students up to undergraduate level, and is also a valuable reference text for

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building service professionals. This new book is based on Fred Hall's 'Essential Building Services and Equipment 2ed' and has been thoroughly updated throughout. It is a companion volume to the highly popular textbook 'Building Construction Handbook' by Chudley



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and Greeno, which is now in its fourth edition.

With rapid economic and industrial development in China, India and elsewhere, fluid-related structural vibration and noise problems are widely encountered in many fields, just as they are

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in the more developed parts of the world, causing increasingly grievous concerns. Turbulence clearly has a significant impact on many such problems. On the other hand, new opportunities are emerging with the advent of various new technologies, such as

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signal processing, flow visualization and diagnostics, new functional materials, sensors and actuators, etc. These have revitalized interdisciplinary research activities, and it is in this context that the 2nd symposium on fluid-structure-sound

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interactions and control (FSSIC) was organized. Held in Hong Kong (May 20-21, 2013) and Macau (May 22-23, 2013), the meeting brought together scientists and engineers working in all related branches from both East and West and provided

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them with a forum to exchange and share the latest progress, ideas and advances and to chart the frontiers of FSSIC.

The Proceedings of the 2nd Symposium on Fluid-Structure-Sound Interactions and Control largely focuses on advances in the theory,

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experimental research and numerical simulations of turbulence in the contexts of flow-induced vibration, noise and their control. This includes several practical areas for interaction, such as the aerodynamics of road and space vehicles,

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marine and civil engineering, nuclear reactors and biomedical science etc. One of the particular features of these proceedings is that it integrates acoustics with the study of flow-induced vibration, which is not a common practice but is scientifically

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very helpful in understanding, simulating and controlling vibration. This offers a broader view of the discipline from which readers will benefit greatly. These proceedings are intended for academics, research scientists, design engineers and



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graduate students in engineering fluid dynamics, acoustics, fluid and aerodynamics, vibration, dynamical systems and control etc. Yu Zhou is a professor in Institute for Turbulence-Noise-Vibration Interaction and Control at Harbin Institute of

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Technology. Yang Liu is an associate professor at The Hong Kong Polytechnic University. Lixi Huang, associate professor, works at the University of Hong Kong. Professor Dewey H. Hodges works at the School of Aerospace Engineering, Georgia

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Handbook  
Proceedings of the 8th  
World Congress on  
Engineering Asset  
Management  
(WCEAM 2013) & the  
3rd International  
Conference on Utility  
Management & Safety  
(ICUMAS)

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Volume 1

Handbook of  
Research on Service-  
Oriented Systems and  
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Properties: Future  
Directions  
Do Smart Adaptive  
Systems Exist?  
Advances in Building  
Services Engineering  
Measuring and  
Improving

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This book focuses on current subcontracting practices in the construction industry and their effects on Singapore's construction productivity. It offers readers a

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better  
understanding of  
how the  
fragmentation of  
large and small  
firms in  
Singapore  
impacts  
construction  
productivity  
when operating  
under the  
commonly adopted  
multilayer

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subcontracting system (MLSS), which extends globally to the construction industries in other countries that have adopted the MLSS. The book also assesses the effectiveness of subcontracting

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practices in helping local contractors improve their construction productivity (and thereby improve the industry's overall productivity). In closing, it provides recommendations



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on how the problems associated with the MLSS can best be addressed, and how its benefits can be capitalized on through organizational learning. This book presents the

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select  
proceedings of  
the  
International  
Conference on  
Sustainable  
Building  
Materials and  
Construction  
(ICSBMC 2021),  
and examines a  
range of  
durable, energy-  
efficient,

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advance  
construction and  
building  
materials  
produced from  
industrial  
wastes and  
byproducts. The  
topics covered  
include advanced  
construction  
materials,  
durability of  
concrete

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structures,  
waste  
utilization,  
repair &  
rehabilitation  
of concrete  
structures,  
structural  
analysis &  
design,  
composites,  
nanomaterials  
and smart  
materials in

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seismic engineering. The book also discusses various properties and performance attributes of modern-age concretes including their strength, durability, workability, and

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carbon footprint. This book will be a precious reference for beginners, researchers, and professionals interested in sustainable construction and allied fields. This book gathers the

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latest advances,  
innovations, and  
applications in  
the field of  
construction  
engineering, as  
presented by  
researchers and  
engineers at the  
Digital  
Technologies in  
Construction  
Engineering  
conference, held

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in Belgorod,  
Russia, on June  
8-9, 2021. It  
covers highly  
diverse topics,  
including  
industrial and  
civil  
construction,  
building  
materials;  
environmental  
engineering and  
protection;



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sustainability;  
structure safety  
and special  
construction  
structures. The  
contributions,  
which were  
selected by  
means of a  
rigorous  
international  
peer-review  
process,  
highlight

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numerous  
exciting ideas  
that will spur  
novel research  
directions and  
foster multidisc  
iplinary  
collaborations.  
Two large  
international  
conferences on  
Advances in  
Engineering  
Sciences were

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held in Hong  
Kong, March  
13-15, 2013,  
under the  
International  
MultiConference  
of Engineers and  
Computer  
Scientists  
(IMECS 2013),  
and in London,  
U.K., 3-5 July,  
2013, under the  
World Congress

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on Engineering  
2013 (WCE 2013)

respectively.  
IMECS 2013 and  
WCE 2013 were  
organize  
Proceedings of  
the 2nd  
Symposium on Flu  
id-Structure-  
Sound  
Interactions and  
Control  
Industrial

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Ventilation  
Design Guidebook

Recent Trends in  
Civil

Engineering  
International  
MultiConference  
of Engineers and  
Computer

Scientists 2013  
Selected Papers  
Architectural,  
Construction,  
Environmental

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Engineering  
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and Digital  
Technologies for  
Future Cities  
ICRMCE 2021,  
July 8-9,  
Surakarta,  
Indonesia

*Services and  
service  
oriented  
computing have  
emerged and  
matured over*

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Lecture Notes

*the last decade, bringing with them a number of available services that are selected by users and developers and composed into larger applications.*

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*The Handbook  
of Research on  
Non-Functional  
Properties for  
Service-  
Oriented  
Systems:  
Future  
Directions  
unites  
different  
approaches and*



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*methods used to describe, map, and use non-functional properties and service level agreements.*

*This handbook, which will be useful for both industry and academia,*

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Lecture Notes

*provides an  
overview of  
existing  
research and  
also sets  
clear  
directions for  
future work.  
The nation's  
physical  
infrastructure  
facilitates*

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*movement of  
people and  
goods;  
provides safe  
water;  
provides  
energy when  
and where  
needed;  
removes  
wastes;  
enables rapid*

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Engineering  
Lecture Notes

*communications*

*; and*

*generally*

*supports our*

*economy and*

*quality of*

*life.*

*Developing a*

*framework for*

*guiding*

*attempts at*

*measuring the*

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*performance of  
infrastructure  
systems and  
grappling with  
the concept of  
defining good  
performance  
are the major  
themes of this  
book. Focusing  
on urban  
regions,*

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*within a  
context of  
national  
policy, the  
volume  
provides the  
basis for  
further in-  
depth analysis  
and  
application at  
the local,*

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Engineering  
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*regional,  
state, and  
national  
levels.*

*This book  
presents  
select  
proceedings of  
the  
International  
Conference on  
Sustainable*

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*Construction  
and Building  
Materials  
(ICSCBM 2018),  
and examines a  
range of  
durable, energy-  
efficient,  
and next-  
generation  
construction  
and building*



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*materials produced from industrial wastes and byproducts. The topics covered include alternative, eco-friendly construction and building*

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*materials, next-generation  
concretes,  
energy  
efficiency in  
construction,  
and  
sustainability  
in  
construction  
project  
management.*

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*The book also discusses various properties and performance attributes of modern-age concretes including their durability, workability,*

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*and carbon footprint. As such, it offers a valuable reference for beginners, researchers, and professionals interested in sustainable*

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*construction  
and allied  
fields.*

*This is a  
comprehensive  
review of  
research  
related to  
construction  
informatics,  
with a  
particular*

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*focus on the  
related 5th  
framework EU  
projects on  
product and  
process  
technology and  
the  
implementation  
of the new  
economy  
technologies*

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*and business  
models in the  
construction  
industry.*

*Advances in  
the Human Side  
of Service  
Engineering  
Studies,  
Researches and  
Applications  
Sustainable*

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*Construction  
and Building  
Materials  
The Case of  
Singapore  
Special Issue  
of the  
International  
MultiConferenc  
e of Engineers  
and Computer  
Scientists*



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*2013 and World  
Congress on  
Engineering  
2013  
Networks and  
New Services:  
A Complete  
Story  
Proceedings of  
the AHFE 2021  
Virtual  
Conference on*

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*The Human Side  
of Service  
Engineering,  
July 25-29,  
2021, USA*

This book is a  
collection of papers  
presented at the 5th  
International  
Conference on  
Rehabilitation and  
Maintenance in Civil

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Engineering (ICRMCE  
2021), held in

Surakarta, Indonesia.

The papers are grouped into sequential themes representing the structure of this book: o Part 1: Factors affecting building and infrastructure performance o Part 2: Testing and inspection of existing building and

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infrastructure o Part 3:  
Protection,

maintenance, repair,  
and retrofitting of  
building and

infrastructure o Part 4:  
Maintenance

management of  
building and

infrastructure o Part 5:  
Service life modelling

of building and  
infrastructure o Part 6:

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Hazard mitigation o  
Part 7: Sustainability  
aspect in civil  
engineering design,  
process, modelling,  
maintenance, and  
rehabilitation

Postgraduate students,  
researchers, and  
practitioners  
specializing and  
working in the area of  
protection,

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maintenance, repair,  
and retrofitting of civil  
engineering

infrastructures will find  
this book very useful.

This book describes the  
latest advances,  
innovations, and  
applications in the field  
of building design,  
environmental  
engineering and  
sustainability as

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presented by leading international researchers, engineers, architects and urban planners at the 3rd International Sustainable Buildings Symposium (ISBS), held in Dubai, UAE from 15 to 17 March 2017. It covers highly diverse topics, including smart cities,

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sustainable building  
and construction  
design, sustainable  
urban planning,  
infrastructure  
development,  
structural resilience  
under natural hazards,  
water and waste  
management, energy  
efficiency, climate  
change impacts, life  
cycle assessment,



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environmental policies, and strengthening and rehabilitation of structures. The contributions amply demonstrate that sustainable building design is key to protecting and preserving natural resources, economic growth, cultural heritage and public

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health. The contributions were selected by means of a rigorous peer-review process and highlight many exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists. This book deals with the energy footprints of

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biorefineries and the hotel and buildings sector. It presents footprint case studies, which include background information, methodological frameworks, assessment checklists, calculation tools and techniques, applications, challenges

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and limitations. It also discusses the application of each indicator/framework in various industrial sectors and the associated challenges, along with outlooks for the future.

Consumption and conservation of energy are key elements in any industry ' s

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sustainability strategy.  
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The Industrial  
Ventilation Design  
Guidebook addresses  
the design of air  
technology systems for  
the control of  
contaminants in  
industrial workplaces  
such as factories and  
manufacturing plants.  
It covers the basic

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theories and science behind the technical solutions for industrial air technology and includes publication of new fundamental research and design equations contributed by more than 40 engineers and scientists from over 18 countries. Readers are presented with scientific research

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and data for improving the indoor air quality in the workplace and reducing emissions to the outside environment. The Guidebook represents, for the first time, a single source of all current scientific information available on the subject of industrial ventilation

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and the more general area of industrial air technology. New Russian data is included that fills several gaps in the scientific literature. \*

Presents technology for energy optimization and environmental benefits \* A

collaborated effort from more than 60



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ventilation experts  
throughout 18  
countries \* Based on  
more than 50 million  
dollars of research and  
development focused  
on industrial  
ventilation \* Includes  
significant scientific  
contributions from  
leading ventilation  
experts in Russia \*

Presents new

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innovations including a rigorous design methodology and target levels \* Contains extensive sections on design with modeling techniques \* Content is well organized and easily adaptable to computer applications  
Trends in Control and Measurement  
Education

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ICRTICE 2019

Engineering Asset  
Management -  
Systems, Professional  
Practices and  
Certification  
CSCE21 Construction  
Track  
Fluid-Structure-Sound  
Interactions and  
Control  
Course on Engineering

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Future Directions

This book  
contains  
contributions  
from the  
international  
conference  
"Engineering  
Innovations and  
Sustainable  
Development,"

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organized by  
three Russian  
universities on  
June 17-18, 2021.  
By presenting  
international  
research on  
various  
sustainability  
issues, it includes  
topics such as  
current trends in  
industrial and

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agricultural  
development,  
innovations in the  
construction and  
transport sectors,  
problems  
concerning the  
financing of  
innovative  
activities and  
governmental  
support for  
innovations, and

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competences and skills in the era of new technologies. It also covers the economic, environmental, and informational aspects of sustainable development in the context of innovations.

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Finally, the book addresses theoretical and practical aspects by studying the phenomenon of sustainability and engineering development in terms of comparing international experiences. It



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provides significant value for scientists, teachers, and students of higher educational institutions, and specialists, who are researching sustainable development issues in the era of engineering

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innovations.

IT securiteers -

The human and  
technical  
dimension

working for the  
organisation.

Current corporate  
governance

regulations and  
international

standards lead  
many

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organisations, big and small, to the creation of an information technology (IT) security function in their organisational chart or to the acquisition of services from the IT security industry. More

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often than  
desired, these  
teams are only  
useful for  
companies'  
executives to tick  
the corresponding  
box in a  
certification  
process, be it ISO,  
ITIL, PCI, etc.  
Many IT security  
teams do not

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provide business value to their company. They fail to really protect the organisation from the increasing number of threats targeting its information systems. IT Security Management

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provides an insight into how to create and grow a team of passionate IT security professionals. We will call them “securiteers”. They will add value to the business, improving the

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information  
security stance of  
organisations.

This proceeding  
represents state-  
of-the-art trends  
and  
developments in  
the emerging  
field of  
engineering asset  
management as  
presented at the

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Eight World  
Congress on  
Engineering Asset  
Management  
(WCEAM). The  
Proceedings of  
the WCEAM 2013  
is an excellent  
reference for  
practitioners,  
researchers and  
students in the  
multidisciplinary



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field of asset management, covering topics such as: Asset condition monitoring and intelligent maintenance, 2. Asset data warehousing, data mining and fusion, 3. Asset performance and

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level-of-service models, 4. Design and life-cycle integrity of physical assets, 5. Deterioration and preservation models for assets, 6. Education and training in asset management, 7. Engineering standards in

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asset

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management, 8.

Fault diagnosis  
and prognostics,

9. Financial  
analysis methods  
for physical  
assets, 10.

Human  
dimensions in  
integrated asset  
management, 11.

Information

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quality  
management, 12.

Information  
systems and  
knowledge  
management, 13.

Intelligent  
sensors and  
devices, 14.

Maintenance  
strategies in  
asset  
management, 15.

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Optimisation  
decisions in asset  
management, 16.  
Risk management  
in asset  
management, 17.  
Strategic asset  
management, 18.  
Sustainability in  
asset  
management.

King WONG  
served as

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Congress Chair  
for WCEAM 2013  
and ICUMAS 2013  
is the President of  
the Hong Kong  
Institute of Utility  
Specialists  
(HKIUS) and  
Convener of  
International  
Institute of Utility  
Specialists (IIUS).  
Peter TSE is the

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Director of the  
Smart  
Engineering Asset  
Management  
laboratory (SEAM)  
at the City  
University of  
Hong Kong and  
served as the  
Chair of WCEAM  
2013 Organising  
Committee.

Joseph MATHEW

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served as the Co-Chair of WCEAM 2013 is also WCEAM's General Chair. He is the Chief Executive Officer of Asset Institute, Australia.

Technological  
Advancements in  
Construction  
Select



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the International  
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Engineering  
Innovations and  
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Transactions on  
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Technologies  
Proceedings of

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Engineering  
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