

The First International Conference ICIDN 2012: An Unforgettable Event that Transformed Kathmandu, Nepal!

5G-enabled Intelligent Detection and Green Repair Technology for Exterior Wall Leakage

Jianwei Cheng^{1,a*} Guanghui Zhang^{2,b}

ABSTRACT

It is currently difficult to pinpoint the source of water leakage in the waterproof exterior walls of existing buildings, while intelligent detection and identification of the level of damage have yet to meet standards. This paper uses 5G-enabled infrared thermal imaging and HD camera drones to detect exterior wall defects, as well as the development and application of intelligent survey, diagnosis and repair system for waterproof exterior walls of existing buildings. A new type of self-repair coating has also been developed for integrated coating and insulation of exterior walls, along with green repair technology for outdoor wall decorative panels. The results show that the 5G-enabled intelligent diagnosis and repair system can quickly and accurately identify exterior wall leakage, providing real-time data and remote consultation with experts. The intelligent diagnosis system for exterior wall leakage can further improve the development of green repair technology for exterior wall leakage in existing buildings.

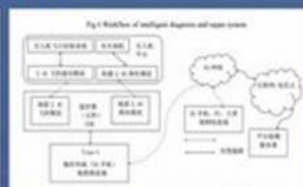
THESIS FRAGMENTS



Seepage in R1 and R4
Bulging in R2 and R3



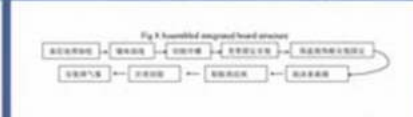
Workflow of intelligent diagnosis and
repair system



Hardware composition module of
intelligent diagnosis and repair system



Assembled integrated board structure



Construction process of prefabricated one-piece board

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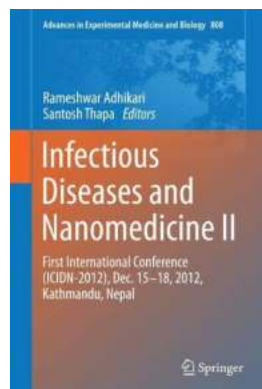
[Fund project] The key research and development plan (social development) project of Xuzhou City "Research on key technologies for intelligent diagnosis and systematic repair of external wall leakage of existing buildings", subject number: KC21293.

About ICIDN

The International Conference on Innovation and Development in Nepal (ICIDN) is a prestigious event that aims to foster collaboration and exchange of innovative ideas among professionals, entrepreneurs, researchers, and policymakers. The inaugural ICIDN conference took place from December 15 to 18, 2012 in the vibrant city of Kathmandu, Nepal.

Why ICIDN Matters

ICIDN serves as a platform for individuals from various fields to come together and explore innovative approaches to solving global issues. The conference takes a multidisciplinary approach, covering areas such as technology, business, healthcare, education, environmental sustainability, and more.



Infectious Diseases and Nanomedicine II: First International Conference (ICIDN – 2012), Dec. 15-18, 2012, Kathmandu, Nepal (Advances in Experimental Medicine and Biology Book 808)

by Hossein G. Gilani (2014th Edition, Kindle Edition)

★★★★★ 5 out of 5

Language : English
File size : 1851 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 118 pages
X-Ray for textbooks : Enabled



The 2012 ICIDN conference was particularly significant as it marked the beginning of a new era in Nepal's innovation landscape. It brought together a

diverse group of professionals who shared a common goal: to drive positive change through innovation.

The Impact of ICIDN

The First International Conference ICIDN 2012 had a significant impact on Kathmandu, Nepal, and the individuals who participated.

1. Knowledge Exchange

The conference created a unique opportunity for knowledge exchange, allowing participants to learn from experts in their respective fields. Attendees had the chance to participate in workshops, panel discussions, and presentations delivered by renowned speakers from around the world.

Participants gained valuable insights into emerging trends, best practices, and innovative solutions, which they could apply in their own work or research projects. This knowledge exchange paved the way for collaborations and partnerships that continue to flourish even years after the conference.

2. Networking Opportunities

The conference acted as a networking hub, connecting individuals with similar interests and goals. Entrepreneurs had the chance to meet potential investors, researchers found collaboration opportunities, and policymakers connected with experts who could inform their decision-making processes.

The networking opportunities extended beyond the conference venue, with various social events, cultural performances, and excursions allowing attendees to bond and build lasting relationships.

3. Promoting Innovation in Nepal

The presence of international experts and innovators at ICIDN 2012 provided a unique platform to showcase Nepal's potential as an innovation hub. The conference brought attention to the country's untapped talent, addressing the common misconception that innovation is solely limited to developed nations.

ICIDN played a vital role in building confidence among local innovators, inspiring them to further explore their ideas and contribute to the country's development. The conference highlighted the importance of investing in research and development, fostering a culture of innovation, and supporting entrepreneurship.

Legacy and Future Editions

The success of the First International Conference ICIDN 2012 paved the way for future editions. The conference has continued to grow, attracting an even larger audience, and expanding its scope to cover emerging fields and technological advancements.

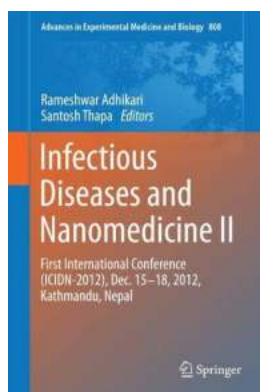
Since its inception, ICIDN has become an annual event eagerly anticipated by professionals, researchers, and entrepreneurs from all over the world. It continues to serve as a platform for cross-disciplinary collaboration and a catalyst for innovation.

In

The First International Conference ICIDN 2012 was a landmark event that brought together innovators, researchers, entrepreneurs, and policymakers in Kathmandu, Nepal. The conference facilitated knowledge exchange, created networking opportunities, and highlighted Nepal's potential as an innovation hub.

ICIDN continues to drive innovation and foster collaborations, making a lasting impact on Nepal's development trajectory. The conference serves as a reminder

that innovation knows no boundaries and that global challenges can be addressed through collective effort and shared knowledge.



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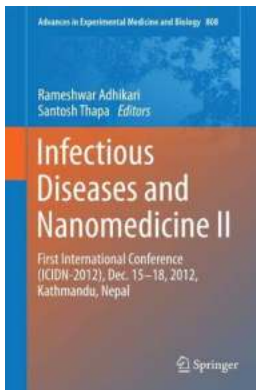


The book addresses the interdisciplinary scientific approach for the systemic understanding of connections between major human diseases and their treatment regime by applying the tools and techniques of nanotechnology. It also highlights the interdisciplinary collaborative researches for innovation in Biomedical Sciences. The book is a second volume which presents collection of best papers presented in the First International Conference on Infectious Diseases and Nanomedicine held during Dec. 15-18, 2012 in Kathmandu, Nepal. The book focuses mainly on the topics: emerging infectious diseases; antimicrobial agents, vaccines and immunity; drug design, drug delivery and tissue engineering and nanomaterials and biomedical materials.



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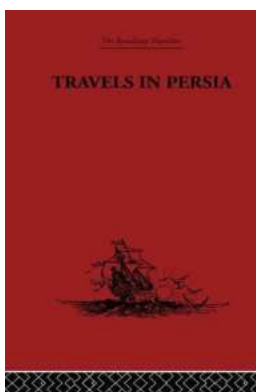
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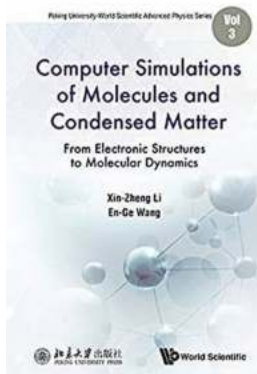
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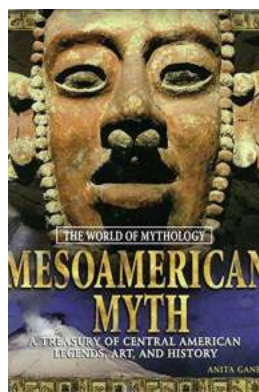
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