E-Conference on

INDUSTRY 4.0

Current Scenario and Potential Directions

Friday, 16th October 2020; 11 AM to 5 PM

CALL FOR PAPERS

Building Blocks of Industry 4.0

Introduction

Industry 4.0 has been defined as "a name for the current trend of automation and data exchange in manufacturing technologies, including cyber-physical systems, the Internet of things, cloud computing and cognitive computing and creating the smart factory". We are in the midst of a significant transformation regarding the way we produce products thanks to the digitization of manufacturing. This transition is so compelling that it is being called Industry 4.0 to represent the fourth revolution that has occurred in manufacturing. From the first industrial revolution (mechanization through water and steam power) to the mass production and assembly lines using electricity in the second, the fourth industrial revolution will take what was started in the third with the adoption of computers and automation and enhance it with smart and autonomous systems fuelled by data and machine learning. Even though some dismiss Industry 4.0 as merely a marketing buzzword, shifts are happening in manufacturing that deserves our attention. The fourth Industrial Revolution is emerging and evolving at a linear rather than exponential pace, disrupting almost every industry in every country.

These changes signal the transformation of entire production, management and governance systems. Industry 4.0 could have an impact on their business; several others are implementing changes and preparing for a future where smart machines are escalating their business. This conference will discuss the impact on infrastructure; ecosystem, efficiency and competitiveness of the transition to the Fourth Industrial Revolution Also discussed are the impact of IOT and artificial intelligence on the support and optimization of the value chain. Industry 4.0's operational challenges will be available on certain industries that are emerging into smart operation in terms of data monitoring and controlling.

This conference is envisaged to discuss the impact of Industry 4.0 on optimizing delivery and logistics operations in terms of exploring real applications of advanced self-driving, loading, and distribution systems. During the conference, we will also study types of smart surveillance and operational engineering activities. We will discuss automation impacts, and smart sensing to improve production and accuracy.

Objective of the E-Conference

- To bring together researchers, academicians, professionals, and students from various engineering and management fields, with cross-disciplinary interests and working in Industry 4.0, to interact and disseminate information on the latest developments.
- To provide a platform to stakeholders to share their experience and research findings about integrated aspects of Industry 4.0
- To discuss challenges imposed by cultural, legacy and socio-political factors for Industry 4.0.
- To deliberate on recent innovations, trends, and concerns in theory and practice

Delegate Profile

- Government officials/ Policy makers
- Academicians/ Chairpersons/Experts
- Principals/ Higher education institution (public and private)
- Educational psychologists
- Corporate representatives/NGOs
- Students/ Researchers/ Ph.D scholars
- Online content creators
- Industrialists
- Consultants

Conference Agenda

1) Is India Ready for Industry 4.0

Points of Discussion:
   a) Industry 4.0 is Changing employment landscape with the need for employees to acquire different or all new skills to excel in these changing roles
   b) Existing Infrastructure will not be sufficient for industry 4.0
   c) Cyber Security is as strong as it is weak
   d) Education System will need to transform to keep up with the demands of a rapidly changing labour market.
   e) Data ownership concerns when choosing third-party vendors for hosting and operationalizing company data.

2) Effects on Employment

Points of Discussion:
   a) Technological illiteracy among existing workforce has to be looked upon
   b) Lack of Focus on Skills required for Industry 4.0 in the existing workforce
   c) How well the 'Change Management' is welcomed among existing workers
   d) Lack of knowledge about vendors and IT outsourcing partners
   e) Ambiguity about the future of jobs.

3) Government Initiatives in promoting Industry 4.0

Points of Discussion:
   a) "Samarth Udyog Bharat 4.0"
   b) Focus on 'Smart Factory'
   c) Removing the roadblocks for Industries to flourish
   d) Focus on Infrastructure and Back end support
   e) Policies for Industries

4) Loopholes in Data Protection Laws in India

Points of Discussion:
   a) New regulations must be made to provide legal protection
   b) Why foreign Data Companies are suddenly interested in Indian Market?
   c) Why Big Data Companies like Amazon, Facebook, and Google etc. are trying to enter and capture Indian market?
   d) Facebook has bought a 9.99% equity stake in an Indian company, no eyebrows raised!
   e) If a machine invents something new, can it be patented? Shall robots have ownership rights?

5) Paper Presentations

Papers will be published in UGC Care Listed Journal. Presenters will present their papers in real time through screen sharing; the best papers will be felicitated by PHD Chamber of Commerce and Industry with a certificate, trophy and cash prize. All the papers submitted will go through a preliminary review by the Editor and those shortlisted will be sent to the selection panel. On the recommendation of the selection panel a paper may be rejected or assigned to two reviewers

Titles of the Papers along with the details of the presenters and Jury will be shared, at the earliest possible.

Certificates

Certificate of Participation and Paper Presentation will be awarded by PHD Chamber of Commerce and Industry.

CALL FOR PAPERS

To be published in UGC Care Listed Journal

THEMES

a) Ecosystem & Infrastructure
b) Industrial Big Data
c) Internet of Things (IoT)
d) Internet of Services
e) Smart Manufacturing
f) Predictive Analytics
g) Cyber-physical Systems
h) Robotic and Automation
i) Mobile Computing
j) Cloud Computing for Industry 4.0
k) Support System for Industry 4.0
l) Flexibility and Agility
m) Industry 4.0 - Strategy and Operations

n) Distributed manufacturing
o) Planning and scheduling in Industry 4.0
p) Performance Management in Industry 4.0
q) Logistics and SCM in Industry 4.0 and Ripple Effect
r) Block chain technology for Industry 4.0
s) Applications in other Industries such as Healthcare, Education, Media, Retail and related Fields.
t) Emerging Dimensions in Business and Management
u) Sustainability
v) Technology and Innovation
w) Design and Fashion
x) The Psychological Aspects
y) The Legal Dimensions

REGISTER ME

Last date of Registration / Abstract Submission : 30th September 2020

Mention your correct name with proper salutation while registering, same will be written over the certificate. Do not miss to fill the GST no, if you want a tax invoice. Abstracts will not be accepted without submitting the 'Registration Fee: Call for Papers'

REGISTRATION FEE: E-CONFERENCE - 500 + GST

Imp Note: This is to participate in the E-Conference and listen to the paper presenters; if you want to present a paper kindly do the registration for Call for Paper.

ONE AUTHOR	TWO AUTHORS	THREE AUTHORS
Rs.1000 + GST	Rs.1800 + GST	Rs. 2400 + GST

Papers with more than three authors will not be accepted. Separate fee of the papers to be submitted directly to the journals in case of acceptance of paper which will be subsidized for you.

Abstract Format:

Paper Title

First Author
Department of Electronics and Communication Engineering
Organization Name, City, State, Country
Email- XYZ
Second Author
Department of Electronics and Communication Engineering
Organization Name, City, State, Country
Email- XYZ

Abstract- Abstract should be times new roman with 9 font single spacing. The main focused of Watermarking is developing and introducing new techniques for watermark embedding and detection. Experimental results show that the embedded watermark is transparent and quite robust in face of various watermark images at high compression ratios and provides good results in terms of imperceptibility.

Keywords – Watermarking, Haar Wavelet, DWT, PSNR

About Us

PHD Chamber of Commerce & Industry, a leading Industry Chamber of India, ever since its inception in 1905, has been an active participant in the India Growth Story through its Advocacy Role for the Policy Makers and Regulators of the Country. Regular interactions, Seminars, Conference and Conclaves allow healthy and constructive discussions between the Government, Industry and International Agencies bringing out the Vitals for Growth. As a true representative of the Industry with a large membership base of 1,30,000 direct and indirect members, PHD Chamber has forged ahead leveraging its legacy with the Industry knowledge across sectors (58 Industry verticals being covered through Expert Committees), a deep understanding of the Economy at large and the populace at the micro level.

At a Global level we have been working with the Embassies and High Commissions in India to bring in the International Best Practices and Business Opportunities.

PHD Chamber has special focus on the following thrust areas:

- **Economic & Business Policy Advocacy**
- **Industry**
- **Infrastructure**
- **Housing**

- **Health**
- **Education & Skill Development**
- **Agriculture & Agri-business**
- **ICT**
- **International Trade**

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