

3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year.

3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during year.

HEI Inputs: 18

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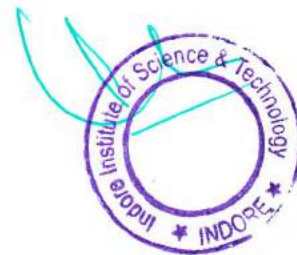
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Summary

Sl. No	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication
1	Dr. Mukesh Patidar	AI-Centric Smart City Ecosystems	Chapter 6 – The Role of Nanoelectronics Devices for Development in Smart City Ecosystem	Taylor & Francis		International	2022	9781003252542	IIST Indore
2	Ankit Jain	AI-Centric Smart City Ecosystems	Chapter 6 – The Role of Nanoelectronics Devices for Development in Smart City Ecosystem	Taylor & Francis		International	2022	9781003252542	IIST Indore
3	Dr. Mukesh Patidar		An Empirical Study and Simulation Analysis of the MAC Layer Model Using the AWGN Channel on WIMAX Technology	IEEE Xplore	2nd International Conference on Technological Advancements in Computational Sciences (ICTACS)	International	Dec-22	https://doi.org/10.1109/ICTACS56270.2022.9988033	IIST Indore



4	Ankit Jain	An Empirical Study and Simulation Analysis of the MAC Layer Model Using the AWGN Channel on WiMAX Technology	IEEE Xplore	2nd International Conference on Technological Advancements in Computational Sciences (ICTACS)	International	Dec-22	https://doi.org/10.1109/ITC-TACS56270.2022.9988033	IIST Indore	
5	Dr. Dheerendra Vikram Singh	Paddy Residue Potential as Energy Resources - A Critical Review	AIP Conf. Proc. 2800, 020145 (2023)	International Conference on Materials for Emerging Technologies	International	2022-2023	1551-7616	IIST Indore	
6	Mr. Lokesh Auranga badkar	Flow comparison of two-phase constant area ejector using different refrigerants by computational fluid dynamic	NA	International conference on Innovation & Challenges in Engineering sciences (ICICES 2023)	International	2022-2023	NA	IIST Indore	
7	Mr. Pankaj Malviya	Transportation Energy and Dynamics Heavy Metals Contaminants Threat to Environment: It's Possible Treatment	-	-	International	2023	ISBN978-981-99-2149-2,	IIST Indore	
8	Mr. Pankaj Malviya	Review on wastewater generation its effect and treatment methodology	sustainable development (FEEMSSD-2023) & Annual Congress of IndA (IndACON-	National	2023	NA	IIST Indore		





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9	Dr. Margi Patel		Age and Gender Recognition using Deep Learning Technique	Third International Conference On Artificial Intelligence, 5G Communications and Network Technologies	3rd International Conference on Smart Data Intelligence (ICSMIDI) 2023, Kongunadu College of Engineering and Technology	International	2023	ISBN:978-1-6654-6487-1	IIST Indore	
10	Dr. Margi Patel		An Integrated Approach to Analysing and Measuring Weather Data for Weather Forecast Prediction	Third International Conference on Artificial Intelligence, 5G Communications and Network Technologies	Third International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICASNT 2023), Velammal Institute of Technology, Chennai	International	2023	978-93-94521-15-5	IIST Indore	





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11	Dr. Namrata Kaushal	Computational and Analytic Methods in Biological Sciences	"Optimization of Covid-19 Risk Factors Using Fuzzy Logic Inference System", published in Springer Book Chapter: Computational & Analytic Methods in Biological Sciences.			International	2023	978-87- 7022-695-0 (Hardback) 978-87- 7022-694-3 (Ebook).	IIST Indore	
12	Dr. Parimeta Chanchan i	Computational and Analytic Methods in Biological Sciences	"Optimization of Covid-19 Risk Factors Using Fuzzy Logic Inference System", published in Springer Book			International	2023	978-87- 7022-695-0 (Hardback) 978-87- 7022-694-3 (Ebook).	IIST Indore	
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		Analytic Methods in Biological Sciences.							
15	Dr. Sathish Kumar Penchala	Bio-Inspired Optimization in Fog and Edge Computing Environments	Roles and future of the internet of things - based smart health care models			International	2023	9781003322931	IIST
16	Dr. Dhceeraj Rane	Bio-Inspired Optimization in Fog and Edge Computing Environments	Roles and future of the internet of things - based smart health care models			International	2023	9781003322931	IIST
17	Mr. Rakesh Jain	Bio-Inspired Optimization in Fog and Edge Computing Environments	Roles and future of the internet of things - based smart health care models			International	2023	9781003322931	IIST
18	Dr. Sathish Kumar Penchala		Energy efficient data transmission in wireless sensor network using cross site leaping algorithm	AIP Conference proceedings	INTERNATIONAL CONFERENCE ON COMPUTATIONAL INTELLIGENCE AND COMPUTING APPLICATIONS-21	International	2022	https://doi.org/10.1063/5.0076799	IIST



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Book

AI-Centric Smart City Ecosystems

Technologies, Design and Implementation

Edited By Alex Khang, Sita Rani, Arun Kumar Sivaraman

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Abstract

Over the next few years, smart city technologies will be rolled out, and the IoT devices and AI-centric systems will provide even more far-reaching connectivity. This book presents various concepts in the design and development of a smart city and methodologies and solutions involved in designing contemporary infrastructure for building smart cities around the world. The book will focus mainly on six areas of smart city

Chapter 6 | 25 pages

The Role of Nanoelectronic Devices in a Smart City Ecosystem

By Mitesh Purohit, Sita Rani, Alex Khang, Arun Kumar Sivaraman

Abstract

The quantum-dot cellular automata are one of the emerging nanoelectronic technologies for creating nanoelectronic circuits for smart cities and smart computational systems. Quantum-dot nanoelectronic technology is a rapidly evolving field that encompasses the development of nano-sensors in nanoscale dimensions for applications, such as smart cities, citizenship, and digital twins. Nanoelectronic-based nano-devices are significantly used in the creation of high-performance analysis.

The nanomaterials and nanoelectronic circuits play an important role in developing the 5G wireless communications technology, smart equipment, and building construction for smart cities. It will become the backbone of future microelectronic and photonic devices capable of trapping electrons in three dimensions.

In this chapter, a coplanar single-layer hybrid half adder-subtractor (SHAS) and a multilayer hybrid half adder-subtractor (MHAS) on nanoscale-based circuits for the development of smart nanoelectronic devices for smart cities are discussed.

The proposed designs used smart QCADesigner-E (Energy) version 3.2 tool to implement circuits and optimize energy dissipation. The presented work of coplanar single-layer SHAS and multi-layer MHAS digital computational circuits occupied a minimum design area of 0.0248 μm^2 and 0.300 μm^2 with 0.30 clock cycle latency and 32 and 41 QCA cells, respectively, using synchronous clocking and routing algorithm.

Finally, the proposed quantum-dot-based nanoelectronic smart circuits design compared with the two existing designs, such as adjoined adder-subtractor and controlled half adder-subtractor, in terms of the design area, cost, delay, and quantum-cell counts.

Chapter 7 | 12 pages

Autonomous Robots for a Smart City

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Book

AI-Centric Smart City Ecosystems

Technologies, Design and Implementation

Edited By Alex Khang, Sita Rani, Arun Kumar Sivaraman

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The Role of Nanoelectronics Devices in a Smart City Ecosystem

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Abstract
The IEEE 802.16 specification defines WiMAX, a wireless broadband data transmission technology. It enables high-speed data transmission over a wide range and remains inexpensive. This is a point-to-multipoint wireless network technology that can also be used in other network applications such as wireless sensor networks. In this article, we will use MATLAB Simulink to analyze the MAC tier model on WiMAX. This MAC tier model can be used to evaluate WiMAX performance in multiple scenarios such as high data rates, modulation schemes, and channel conditions. The proposed simulation model has reduced simulation time and performance. In this analysis, various modulation techniques such as QPSK and QAM were used on the AWGN channel and the simulation results were compared by SNR and BER.

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Introduction
WiMAX is a fast-growing wireless broadband access technology that uses IEEE 802.16 and IEEE 802.11e standards to provide fixed, mobile, portable, and mobile wireless broadband without requiring a direct line of sight (LOS) to the base station. He is also in charge of providing the world with broadband wireless access. WiMAX is more sensitive to wired broadband (3). The standard for wireless networks is IEEE 802.16, also known as WiMAX. It is a point-to-multipoint wireless network (M2M) that provides both wireless and wired access. It is a point-to-multipoint wireless network (M2M) that provides both wireless and wired access. It is a point-to-multipoint wireless network (M2M) that provides both wireless and wired access.

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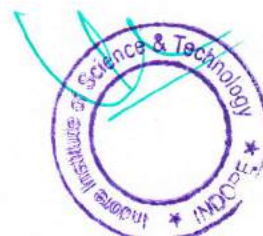
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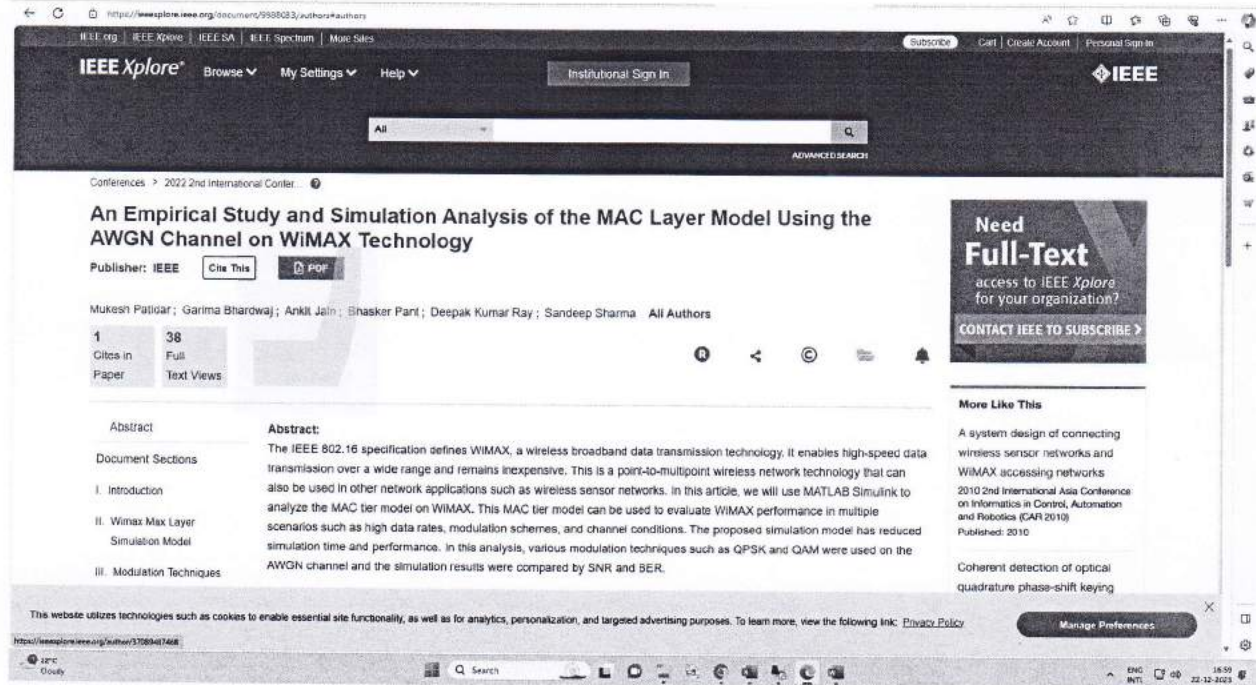
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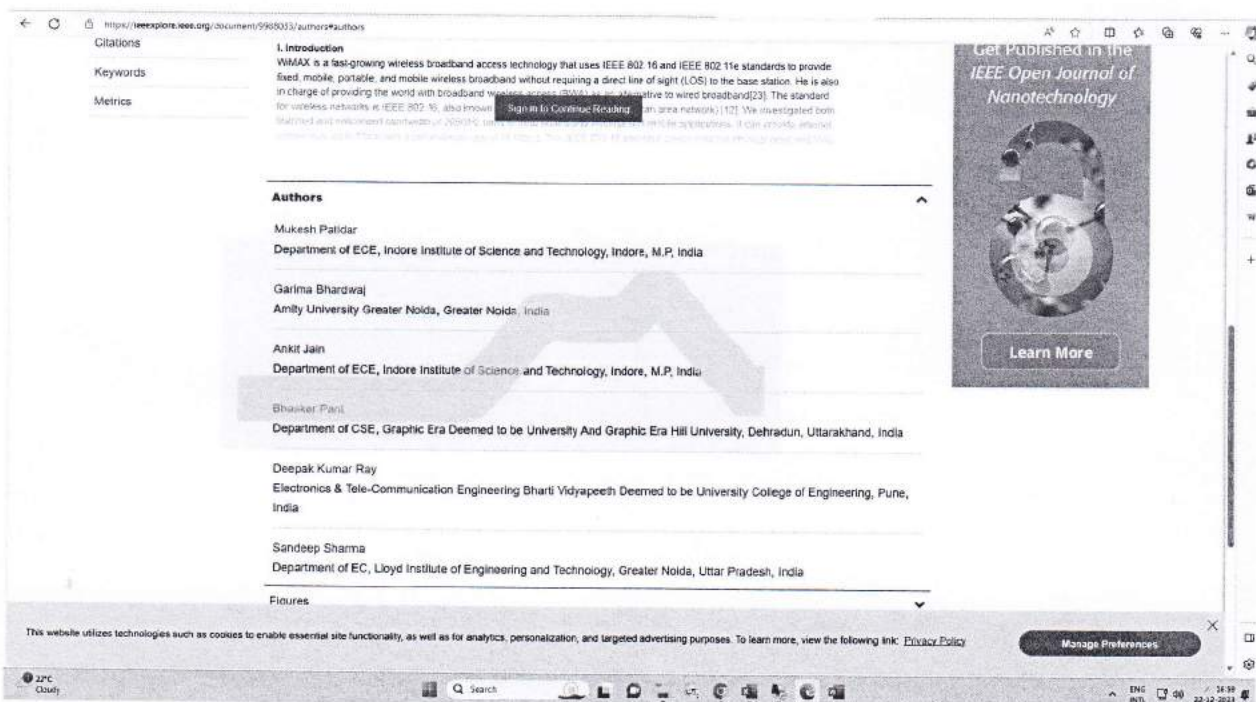
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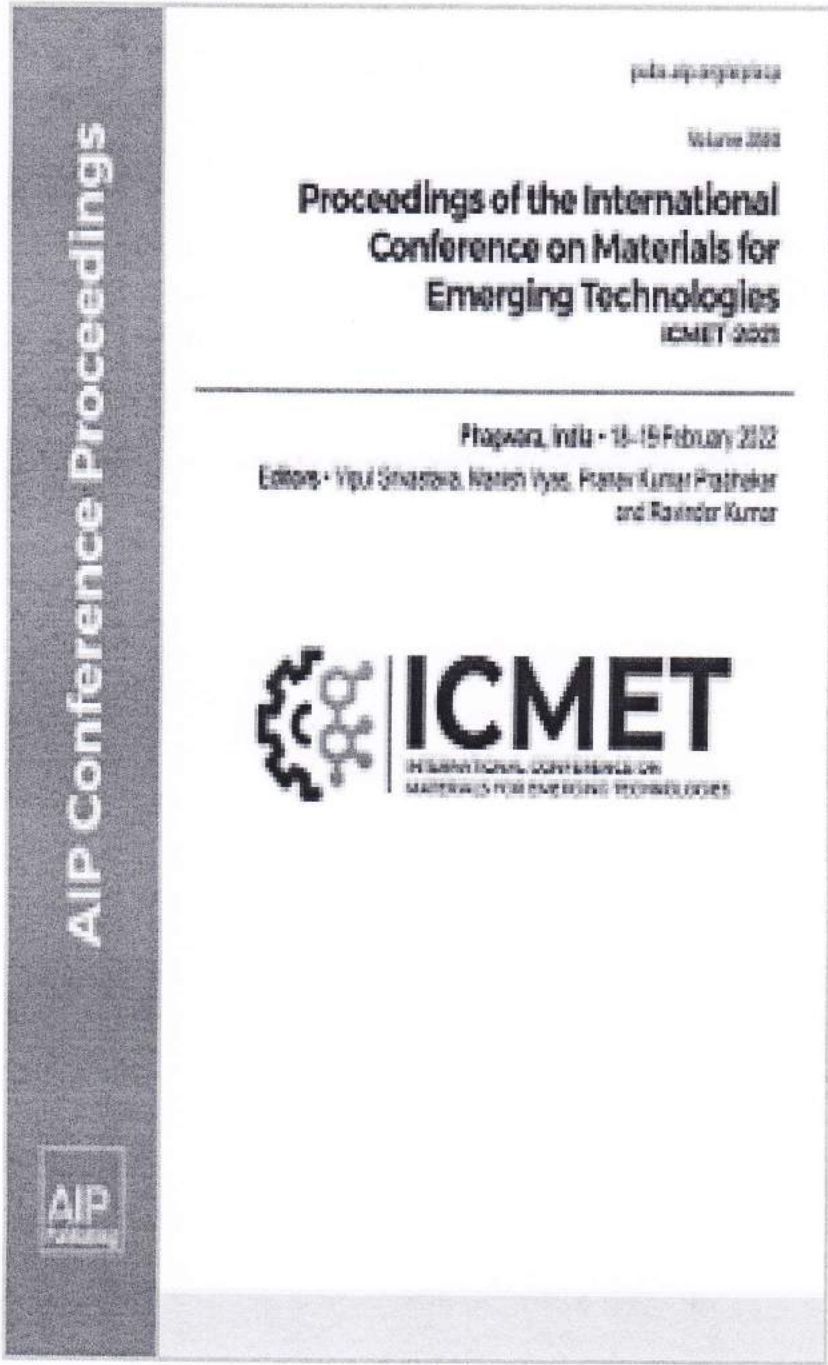




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Paddy residue potential as energy resources - A critical review





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Paddy residue potential as energy resources - A critical review

Jatoh Heeraman, Sumit Kumar, S. Kalappan, Pravin P. Paill, Chhensendra Vikram Singh

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As fossil fuel resources are depleting gradually with respect to time, developing countries have to switch to alternative renewable energy sources to fulfill their energy demands in the coming decades. In every nation, agricultural land is capable enough of laying various crops throughout the year. This leaves a huge amount of biomass waste in the Indian fields. Out of all the residues, paddy straw holds the major contribution as incredible biomass for energy production. However, the burning of paddy straw directly in the fields is being responsible for the loss of nutrients and greater greenhouse gas emissions. This study assessed the quantity of biomass residue generated and the quality of the environment that is depleting each year. Keeping wastage and environmental harm in consideration, we defined various ways and costs to accumulate biomass residues from different parts of the country. We summoned various works done on paddy straw so far and proposed a pilot plant to generate electricity with minimum cost and maximum optimization. We analyzed the impact of biomass residue on energy production, economy, and environment subsequently. Limitations that are responsible for the restriction of open burnings and environmental harms are addressed on a serious note. This study would bring little awareness among the farmers about the environmental pollution related to paddy straw burning and the advantages they can benefit from in terms of the economy.

Topics

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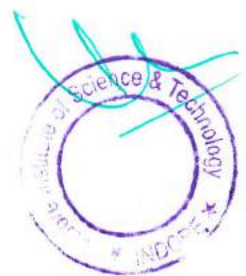
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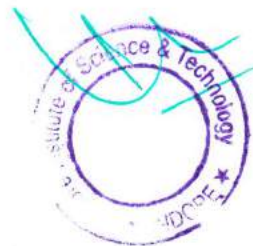
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Age and Gender Recognition using Deep Learning Technique

Age and Gender Recognition using Deep Learning Technique

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Abstract

Gender classification is popular because it includes information about male and female social activities. Faces make it difficult to derive gender-discriminating visuals. Gender classification is based on looks. Automatic gender classification is popular because genders include rich social information. Classification has grown increasingly important in many industries. In a conservative society, gender classification can be used in certain contexts. Identifying gender type is crucial to keeping extremists out of safe locations, especially in sensitive areas. A similar technique is utilized in female-only railway carriages gender-specific marketing, and temples. Biometrics debates gender classification from facial pictures. Traditional ways categorize hand-crafted features globally and locally. These gender-identification systems need subject knowledge and are ineffective. Human gender identification is easy, but machines struggle. We listed numerous gender classification pre-processing approaches, such as contrast and brightness normalization. To create a gender and age classification framework Deep Belief Networks employs Shifted Filter Responses to identify features. The suggested model achieves 98% and 99% accuracy on the benchmark dataset.

Document Sections

- I. Introduction
- II. Background Study
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Margi Patel ; Upendra Singh

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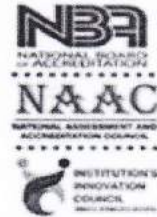
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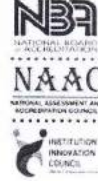
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By Jyoti Gupta, Samidha Saxena, Namrata Kaushal, Parimeeta Chanchani

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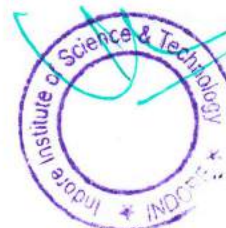
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According to the WHO, the topmost priority during the COVID-19 pandemic is to recognize the risk factors for the severity of this disease. Because of this, we conducted a series of calculations based on several symptoms of COVID-19 infections. The study aimed to estimate the rigorously and identify the risk factors of COVID-19 infection and calculated the risk % by taking a wide range of symptoms like Body Temperature, Cough, Cold, Breathing problems, and Loss of senses of Smell & Taste. We have used MATLAB to simulate a model based on Mamdani fuzzy inference system to help those who can identify their symptoms. In the proposed model Mean of Maxima kind of De-Fuzzifier is applied. Additionally, we also conducted a comparability analysis of risk factors across 5-6 studies. The study concludes that if a patient's body temperature is 38.4 °C, suffering from cough (6), cold (8) and breathing rate in pulse oxymeter is 95, loss of sense of smell is 17% then the risk of his being infected by coronavirus is 52%. Based on the results obtained, we have also proposed a set of rules for further



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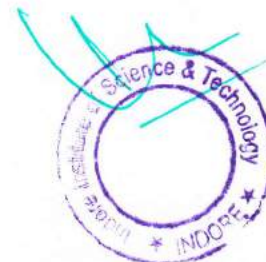
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