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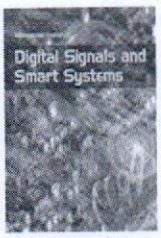

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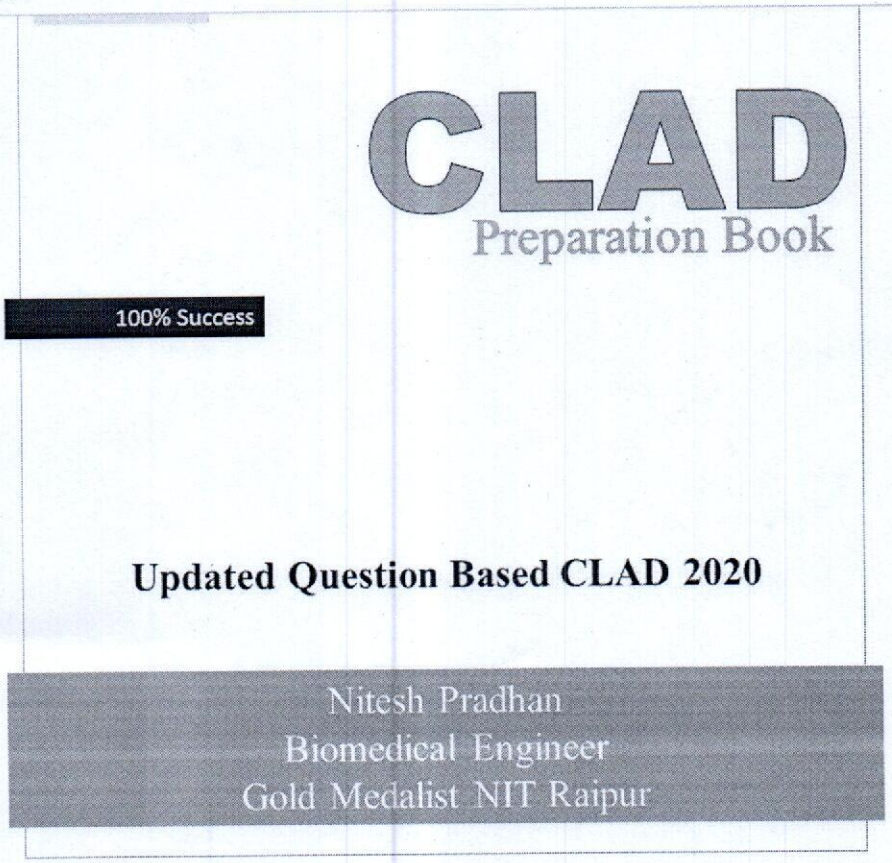

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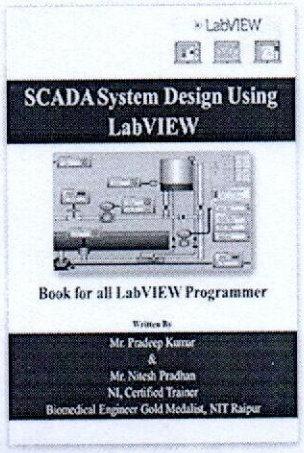

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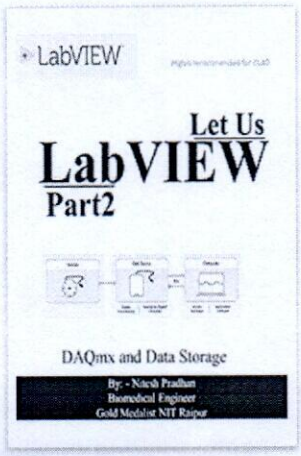

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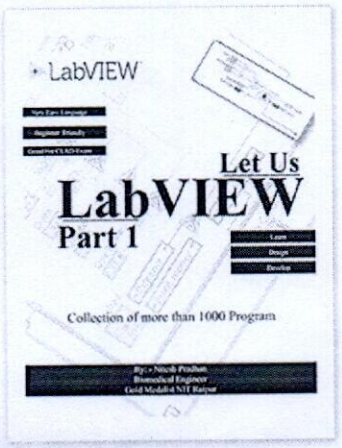

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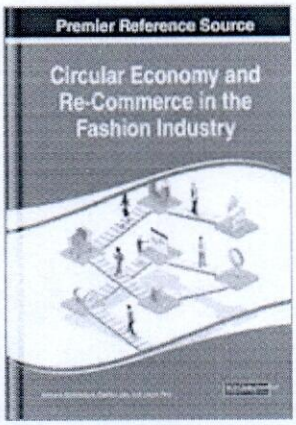

Sustainability in the Fashion Industry

Sana Vakeel (ITS Engineering College, Greater Noida, India) and Rashmi Kaushik (ITS Engineering College, Greater Noida, India)

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Rising awareness among consumers about reducing, recycling, and re-using garments has given birth to the concepts of reverse commerce (re-commerce) and re-fashioning in the apparel industry. Re-commerce in the fashion industry is booming just like any other re-selling business, which sells electronic items, furniture, and vehicles. The trend of fashion re-commerce is quite popular not just online, but also among the offline retail stores across the globe. Factors that have contributed to the growth of the re-commerce fashion industry include tough economic times, budget constraints, and increased awareness among consumers about keeping the planet green by reducing waste. Re-fashioning helps consumers in saving a lot of money while encouraging them for conscious consumption. Based on secondary sources data, the study focuses on motivation and barriers to fashion re-commerce. Sustainability is also an upcoming concept in the fashion industry. The authors discusses sustainability in the fashion industry with the help of a review of literature available for the same.

Chapter Preview

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Introduction

The idea of sustainability is not new for us but the sustainable fashion is a new idea taking shape now a days. During the starting phase of 90's only innovators entered and changed existing phenomenon of fashion industry and explored the opportunities which later on became norms of this industry. Motive behind all the ideas was the thought that through the clothing one can

Chapter 3
Sustainability in the Fashion Industry 19
Sana Vakeel, ITS Engineering College, Greater Noida, India
Rashmi Kaushik, ITS Engineering College, Greater Noida, India

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Chapter 4
Changing Customer Behavior in Sustainable Fashion Industry 31
Mohamed Mohamed Elsotouhy, Faculty of Commerce, Mansoura University, Egypt

There is no doubt that sustainability has turned to a hot issue in recent years for its significant effect not only for the fashion industry but also for several fields. Nowadays, most organizations have shifted from traditional business models to sustainability-integrated business models. However, few studies have focused on changing customer behaviour towards adopting sustainability. In this chapter, the author focuses on presenting the damaging effects of the fashion industry in all phases of production and giving a view on how marketers stir consumers to embrace sustainable fashion in their own lives. This chapter concentrates on quality rather than quantity.

Chapter 5
Explaining Purchase Intention Towards Eco-Friendly Apparel: An Application of Theory of Planned Behavior.....40
Seemant Kumar Yadav, GLA University, Mathura, India
Vikas Tripathi, GLA University, Mathura, India

Textile manufacturing is one of the polluting industries contributing to approximately 1.2 billion tonnes of toxic greenhouse gases. Due to increasing consumer purchase index, companies are adopting unsustainable means like synthetic fiber and polyester,

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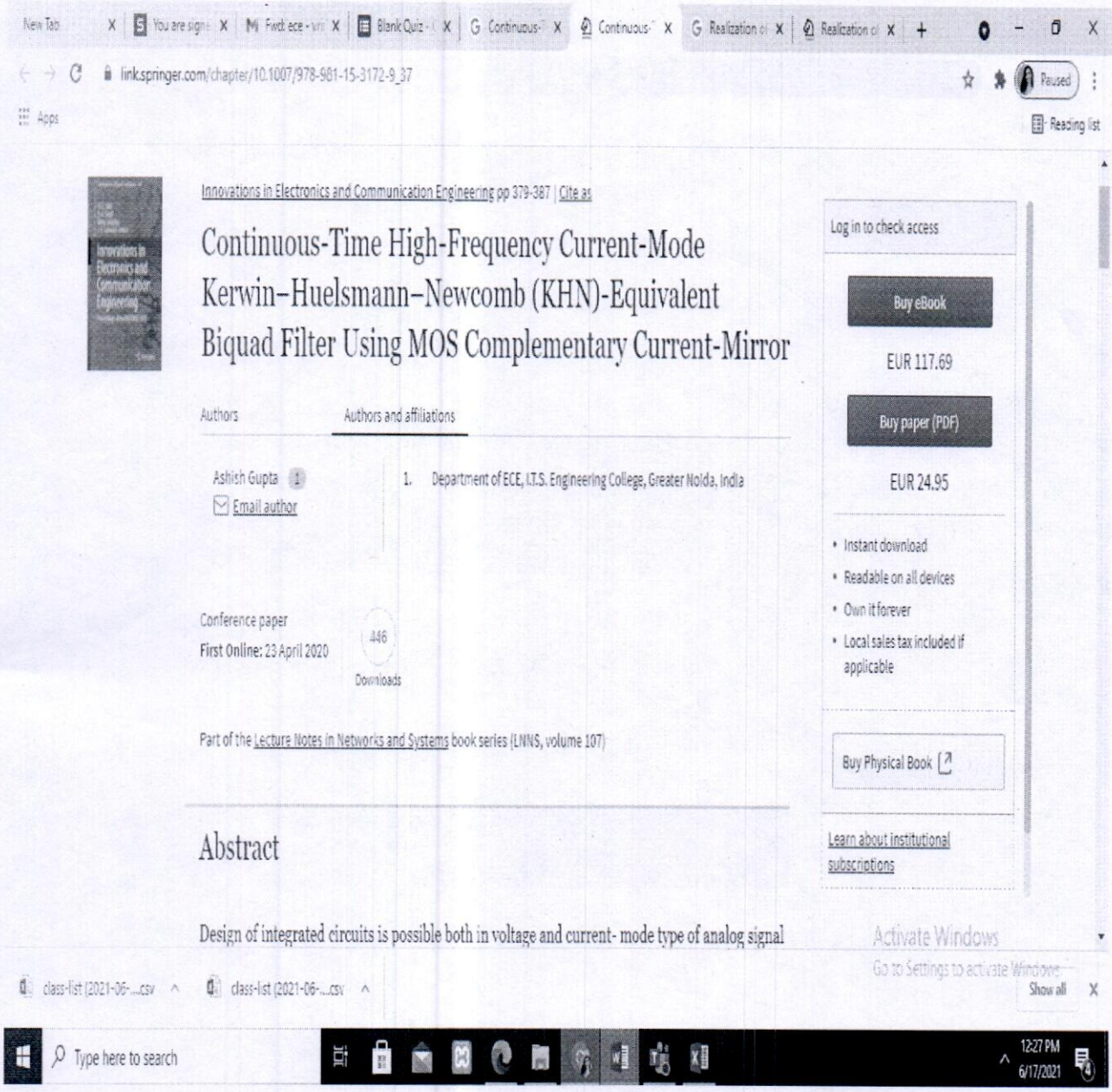

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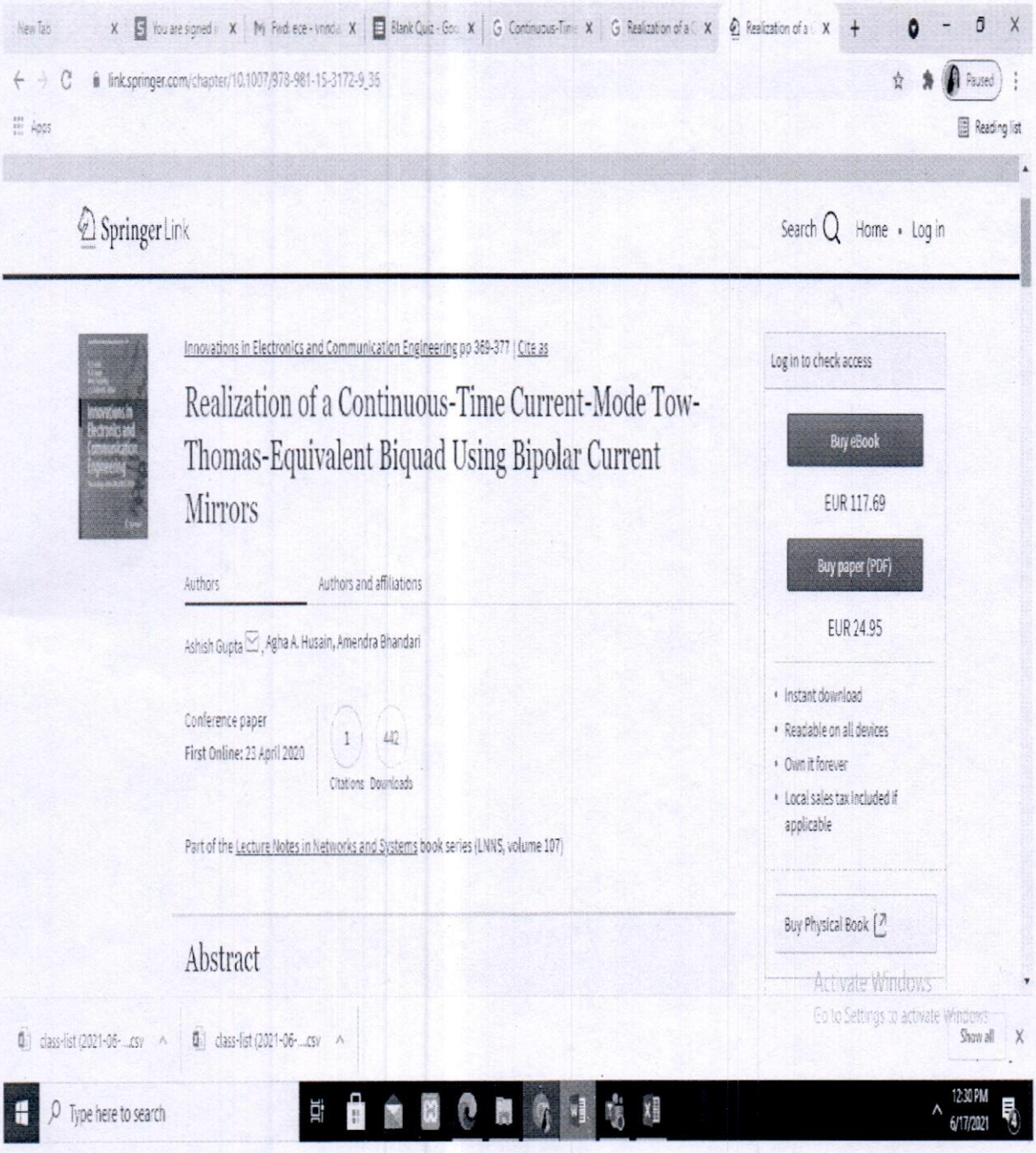

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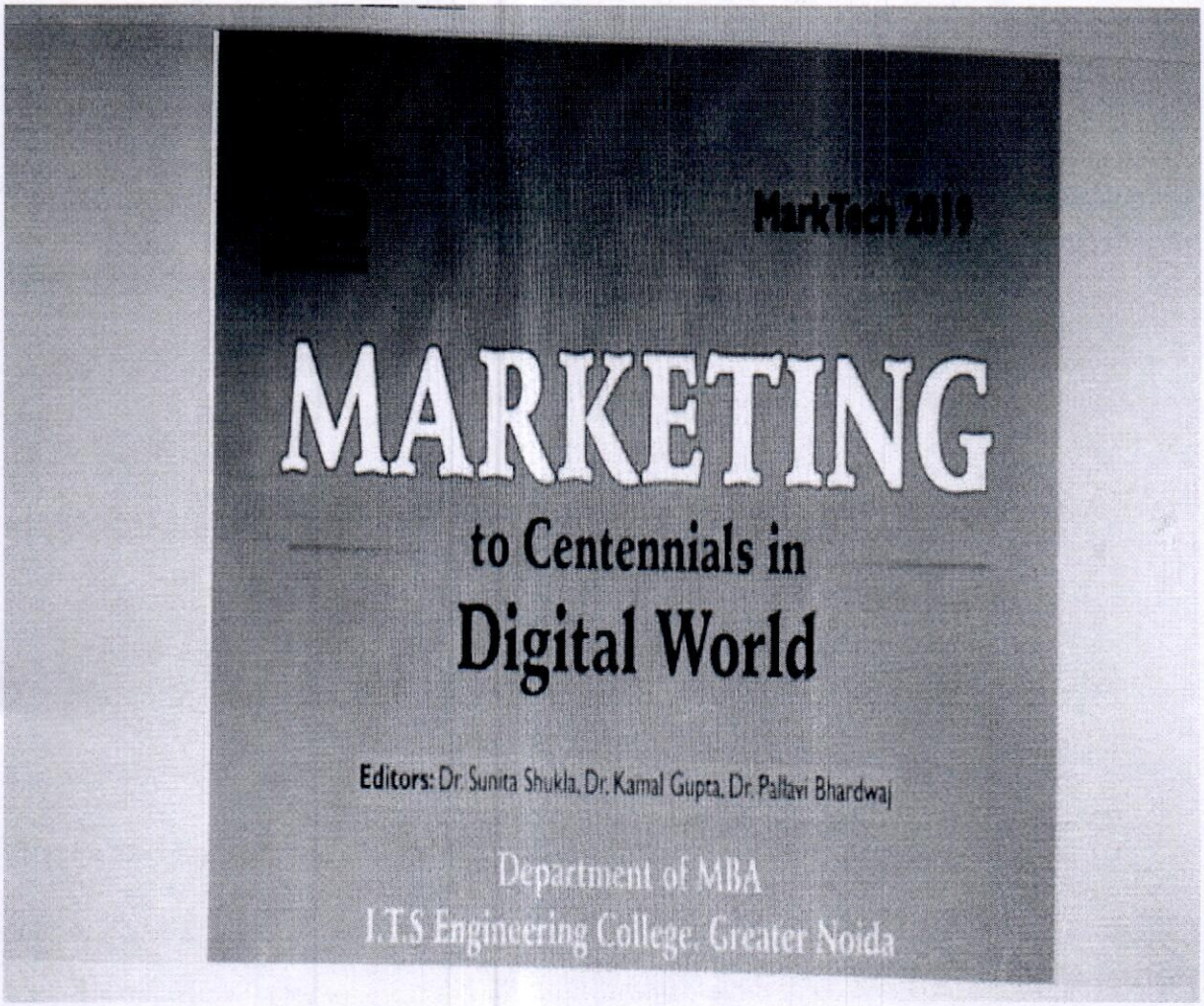

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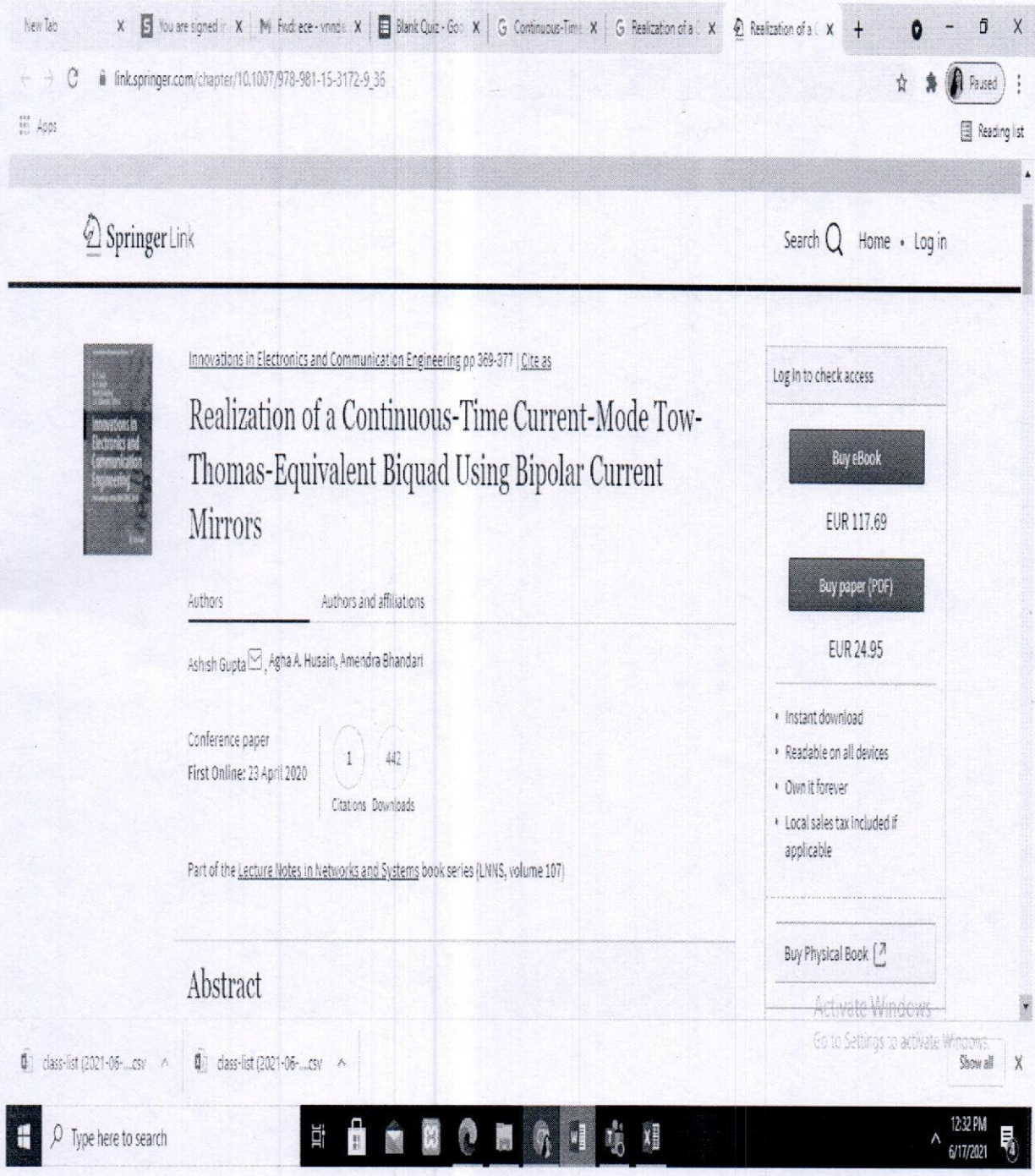

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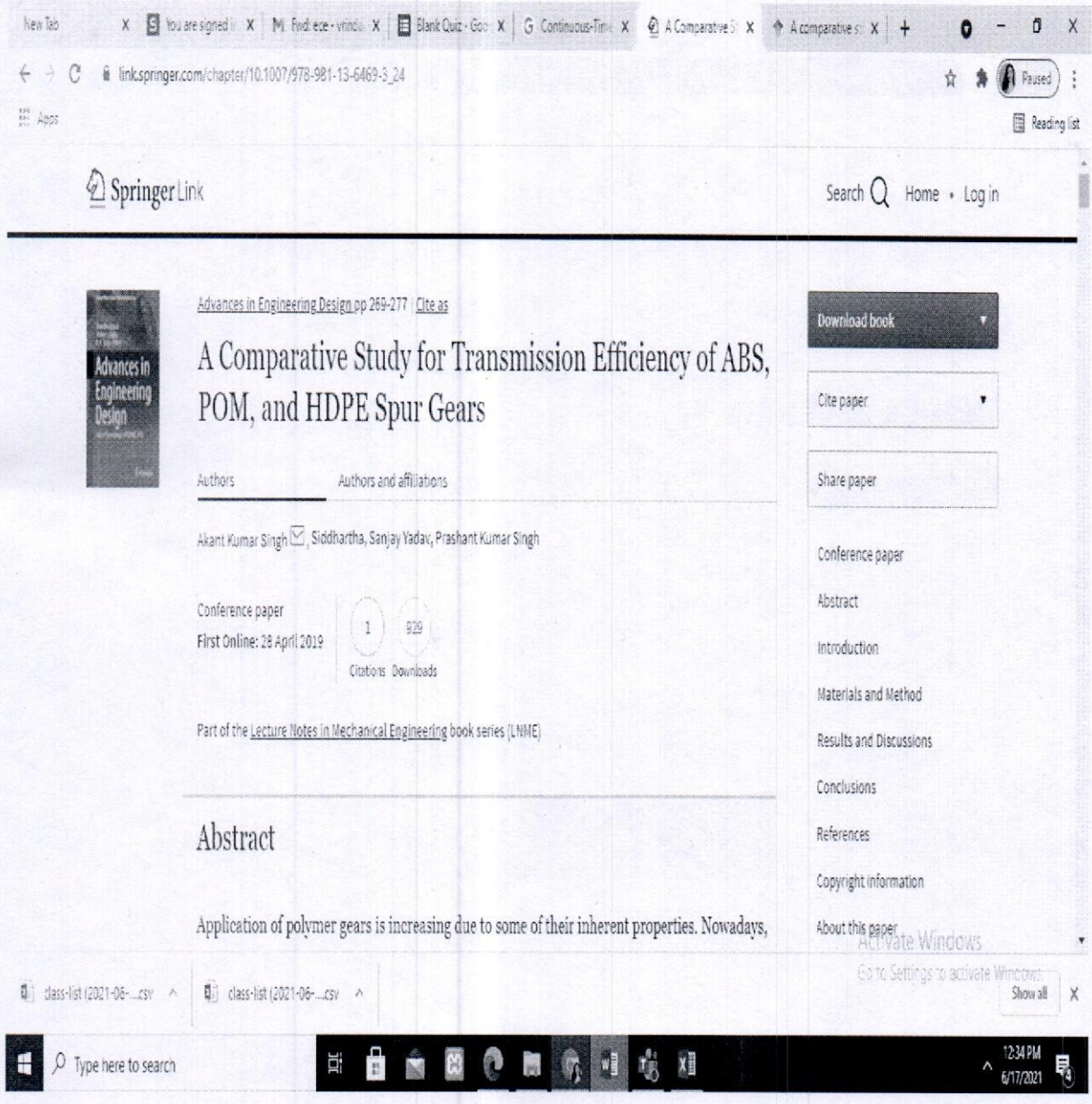

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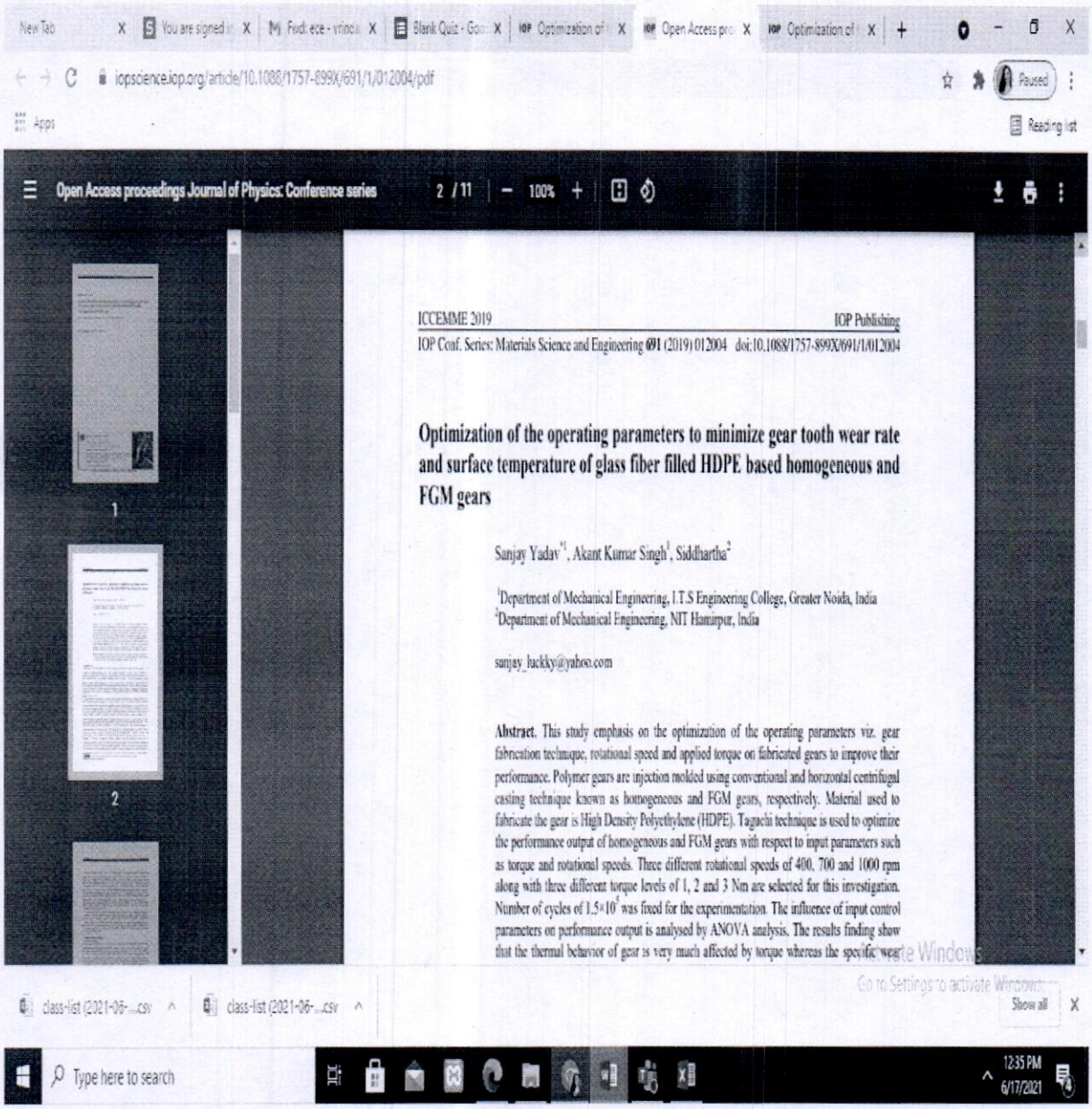

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Optimization of the operating parameters to minimize gear tooth wear rate and surface temperature of glass fiber filled HDPE based homogeneous and FGM gears

Sanjay Yadav[*1], Akant Kumar Singh[1], Siddhartha[2]

[1]Department of Mechanical Engineering, I.T.S Engineering College, Greater Noida, India
[2]Department of Mechanical Engineering, NIT Hamirpur, India

sanjay_luckky@yahoo.com

Abstract. This study emphasis on the optimization of the operating parameters viz. gear fabrication technique, rotational speed and applied torque on fabricated gears to improve their performance. Polymer gears are injection molded using conventional and horizontal centrifugal casting technique known as homogeneous and FGM gears, respectively. Material used to fabricate the gear is High Density Polyethylene (HDPE). Taguchi technique is used to optimize the performance output of homogeneous and FGM gears with respect to input parameters such as torque and rotational speeds. Three different rotational speeds of 400, 700 and 1000 rpm along with three different torque levels of 1, 2 and 3 Nm are selected for this investigation. Number of cycles of 1.5×10^5 was fixed for the experimentation. The influence of input control parameters on performance output is analysed by ANOVA analysis. The results finding show that the thermal behavior of gear is very much affected by torque whereas the specific wear

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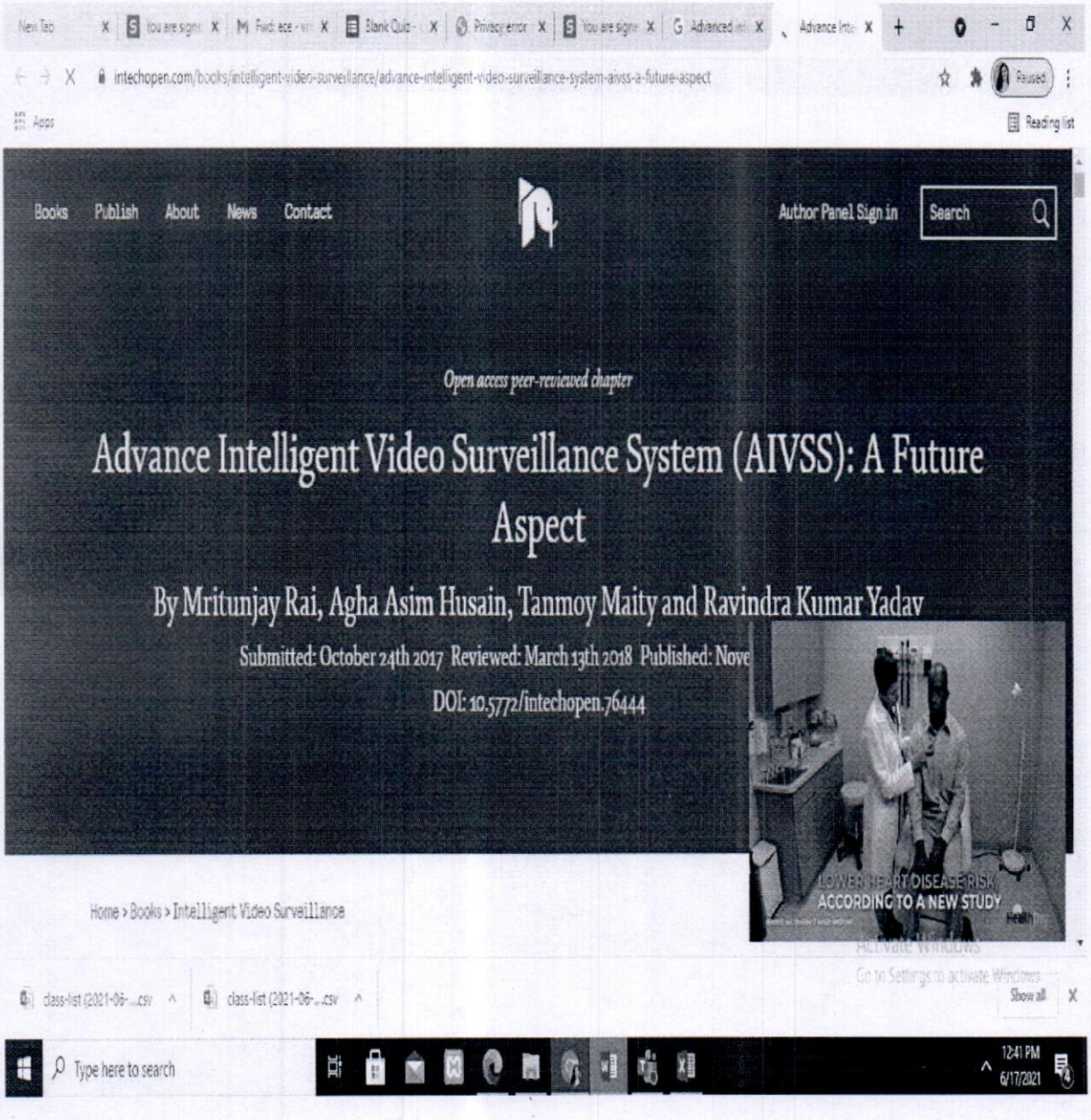

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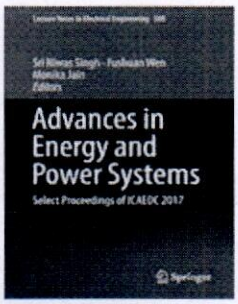

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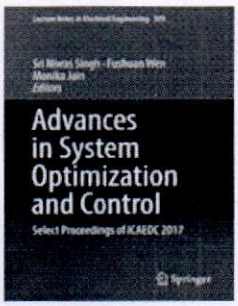

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Designing Coupling Circuits for Communication of High-Frequency Signals Over Power Lines

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Abstract

There are areas where the digital communication may be made through low-voltage distribution network. This helps the utilities to reach at remote locations. Mapping of the consumer through control center is achieved through interfacing of coupling circuits that leads to distribution load management. This paper presents designing of broadband coupling circuit that satisfies specific signal transmission, appropriate bandwidth, and limited number of components. The paper also discusses the significant parameter variations during capacitive couplings and inductive couplings for passive and active network topologies.

Keywords

Active filter Band pass filters Bandwidth Coupling circuits Digital communication Distribution automation Line filters Passive filters Voltage gain

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1. H. Philipps, Performance measurements of power line channels at high frequencies, in *Proceedings of the 1998 International Symposium on Power*

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Adaptive Volterra Filters for Active Control of Nonlinear Noise Processes

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Abstract

Active noise controls (ANCs) are a challenging application, where there are many considerations such as a secondary path modeling and compensation, fast-changing environment and noise characteristics, interactions between acoustic and electrical domains, placement of microphones and loudspeakers as well as undesired acoustic feedback from the canceling loudspeaker to the reference microphone. ANC algorithms need to identify the secondary path transfer functions between the loudspeaker-to-microphone error sensors and then use the information to guide the direction of control filter coefficient updating. The conventional ANC systems are inefficient in the nonlinear or deterministic noise process, where noise comes from a dynamic system rather than a stochastic, white, or tonal noise process. This paper presents a Volterra filtering for feed-forward ANC which is suitable for the nonlinear controller.

Keywords

Active noise controls (ANCs) Volterra filtering
LMS (least mean square) algorithm Nonlinear system

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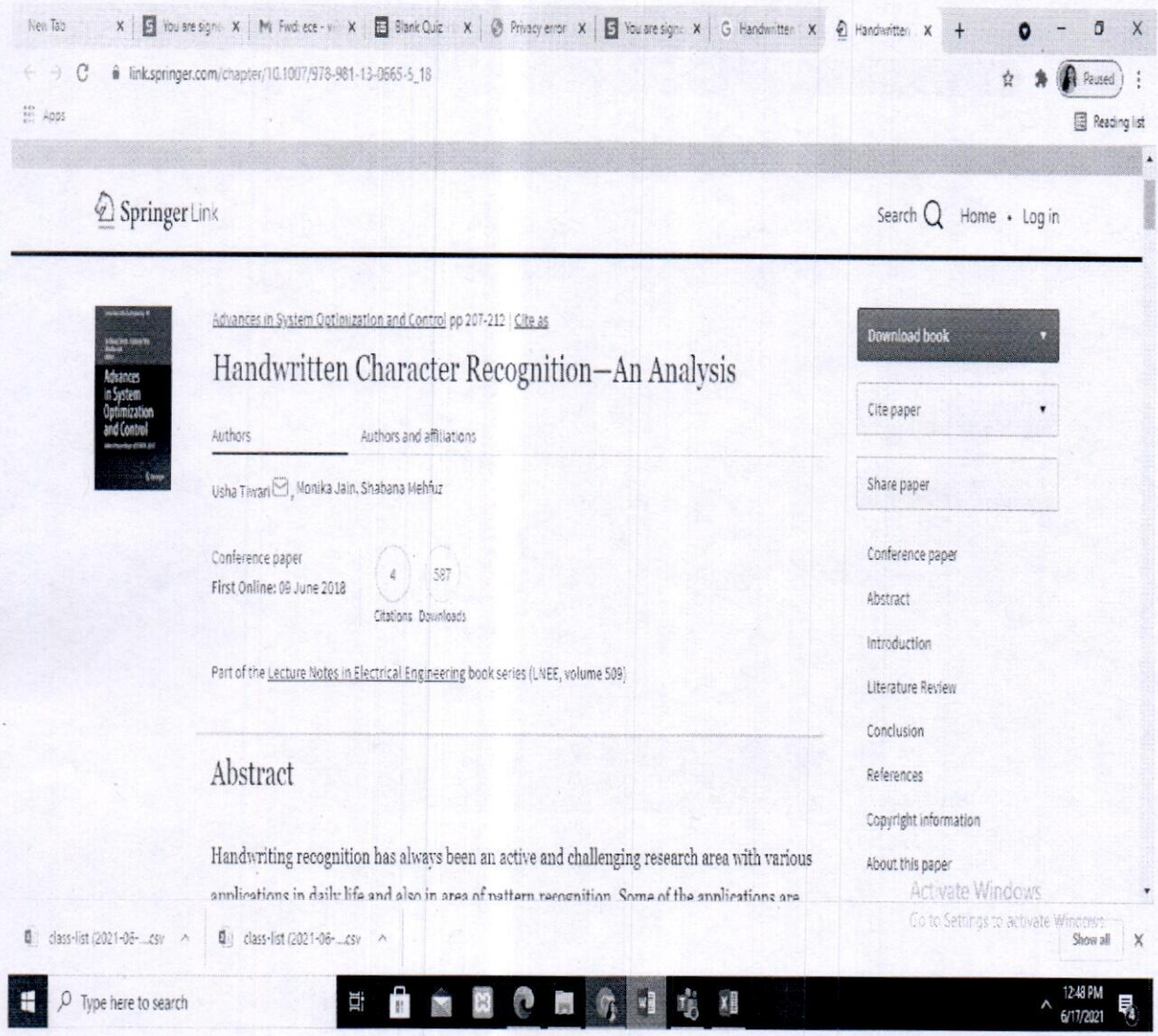

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Study of the Seasonal Variability of Plankton and Forage Fish in Chilika Lagoon Using NPZF Model: A Case Study

Industrial Mathematics and Complex Systems pp 295-304 | Cite as

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Abstract

A four-compartment, Nutrient (N), Phytoplankton (P), Zooplankton (Z) and Forage fish (F), nonlinear mathematical model is used to study the seasonal variability of plankton and forage fish in the Chilika lagoon (19°28′ N–19°54′ N, 85°06′ E–85°36′ E), the largest brackish water lagoon with estuarine character on the east coast of India. It is a highly biological productive and ideal system for aquaculture study. Almost every component at each tropic level of an aquatic food web are dependent on phytoplankton and the availability of nutrient in the study domain. The coupled ordinary differential equations with four state variables represent the interaction of the biological and chemical processes in a marine ecosystem. The main objective of the study is to obtain a set of parameters which can be used in a mathematical model to simulate the ecology of a shallow water lagoon. The model which is presently used in this study enables to bring significant changes in planktonic distribution in the lagoon.

Keywords

$NPZF$ model Plankton Forage fish Chilika lagoon

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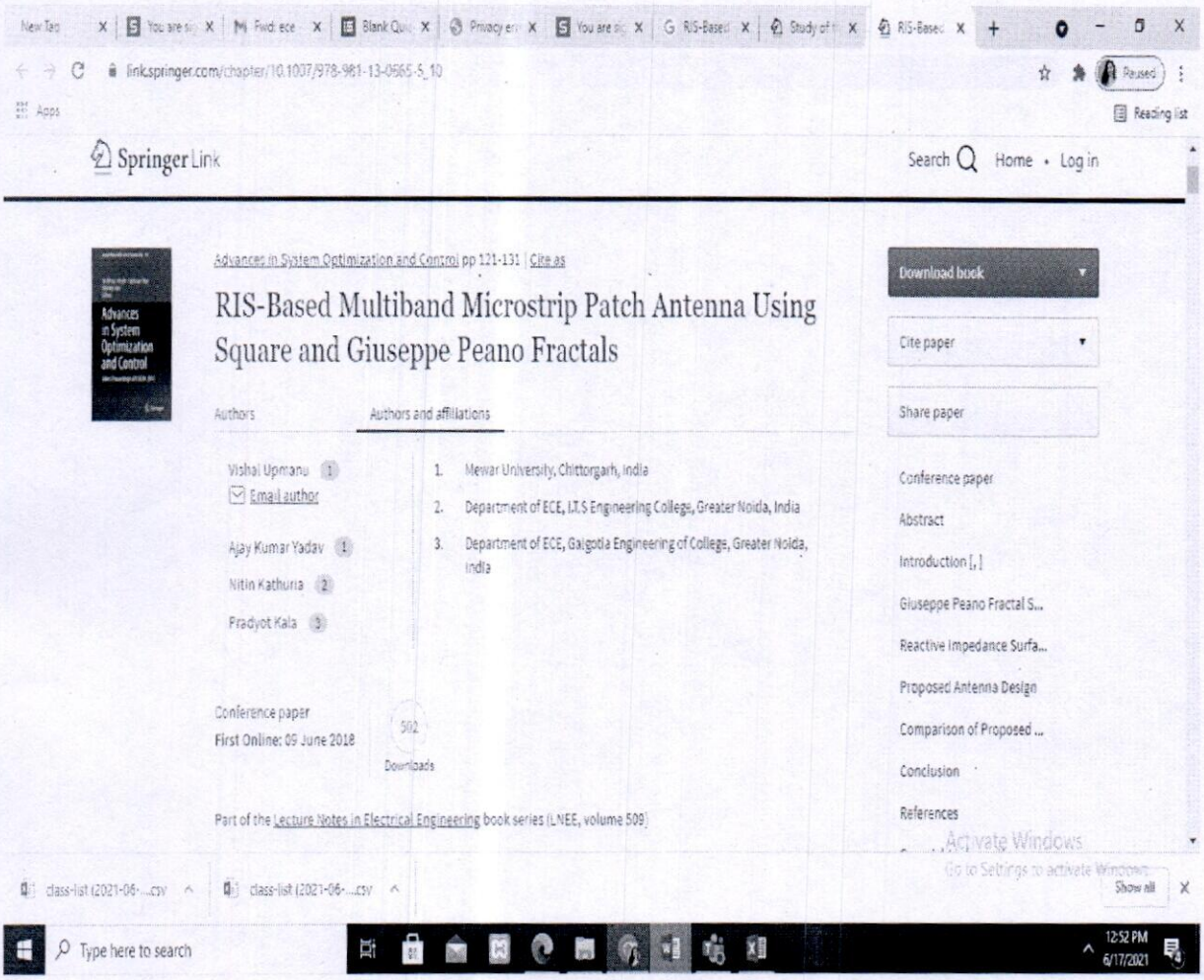

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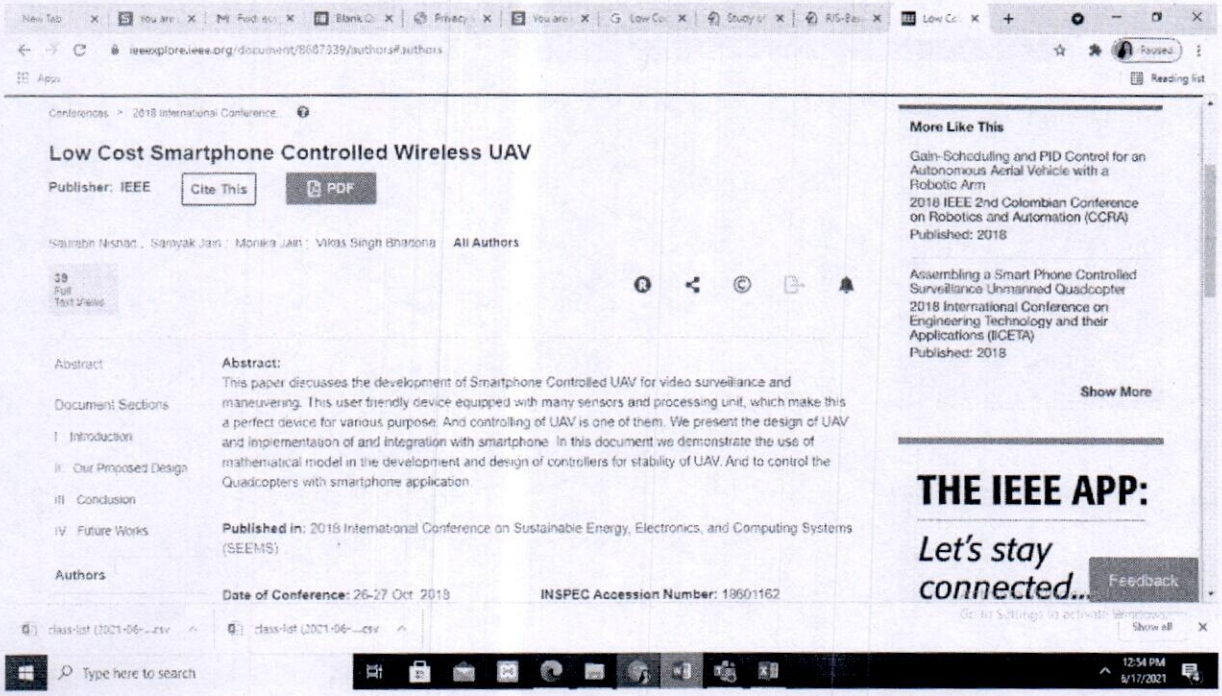

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Low Cost Smartphone Controlled Wireless UAV

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Abstract

Document Sections

I. Introduction

II. Our Proposed Design

III. Conclusion

IV. Future Works

Authors

Abstract:
This paper discusses the development of Smartphone Controlled UAV for video surveillance and maneuvering. This user friendly device equipped with many sensors and processing unit, which make this a perfect device for various purpose. And controlling of UAV is one of them. We present the design of UAV and implementation of and integration with smartphone. In this document we demonstrate the use of mathematical model in the development and design of controllers for stability of UAV. And to control the Quadcopters with smartphone application.

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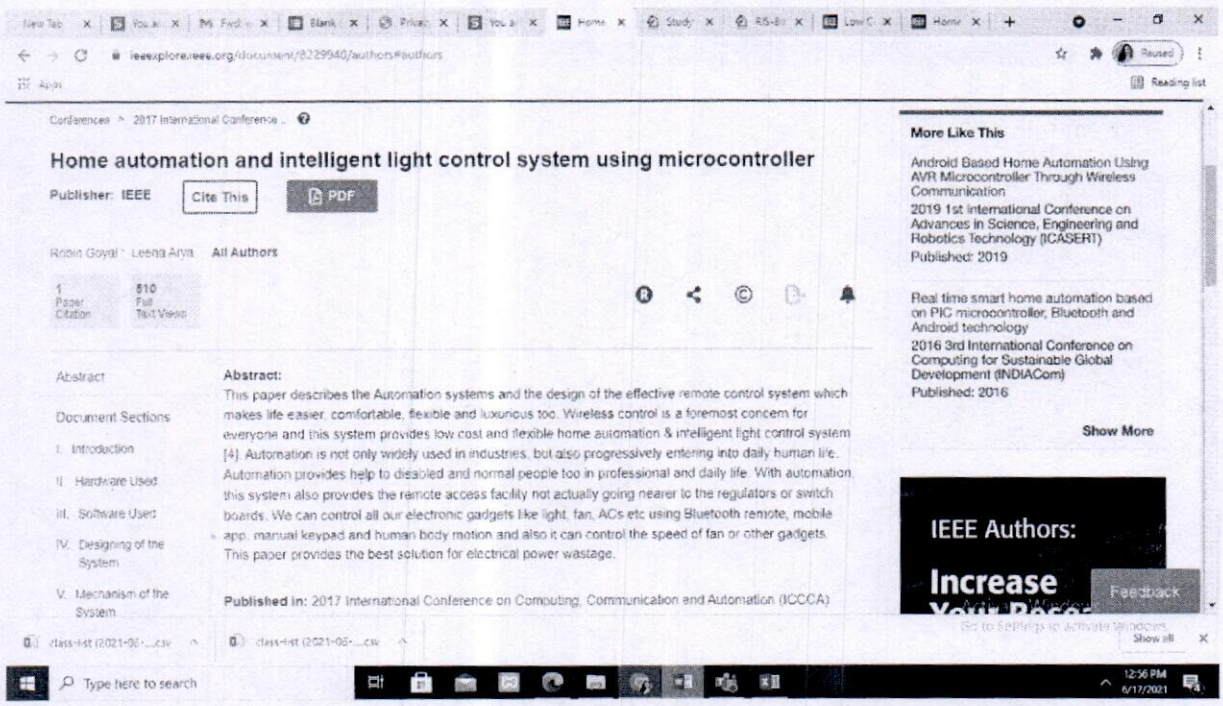

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Abstract

Document Sections

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II. Hardware Used

III. Software Used

IV. Designing of the System

V. Mechanism of the System

Abstract:
This paper describes the Automation systems and the design of the effective remote control system which makes life easier, comfortable, flexible and luxurious too. Wireless control is a foremost concern for everyone and this system provides low cost and flexible home automation & intelligent light control system [4]. Automation is not only widely used in industries, but also progressively entering into daily human life. Automation provides help to disabled and normal people too in professional and daily life. With automation, this system also provides the remote access facility not actually going nearer to the regulators or switch boards. We can control all our electronic gadgets like light, fan, ACs etc using Bluetooth remote, mobile app, manual keypad and human body motion and also it can control the speed of fan or other gadgets. This paper provides the best solution for electrical power wastage.

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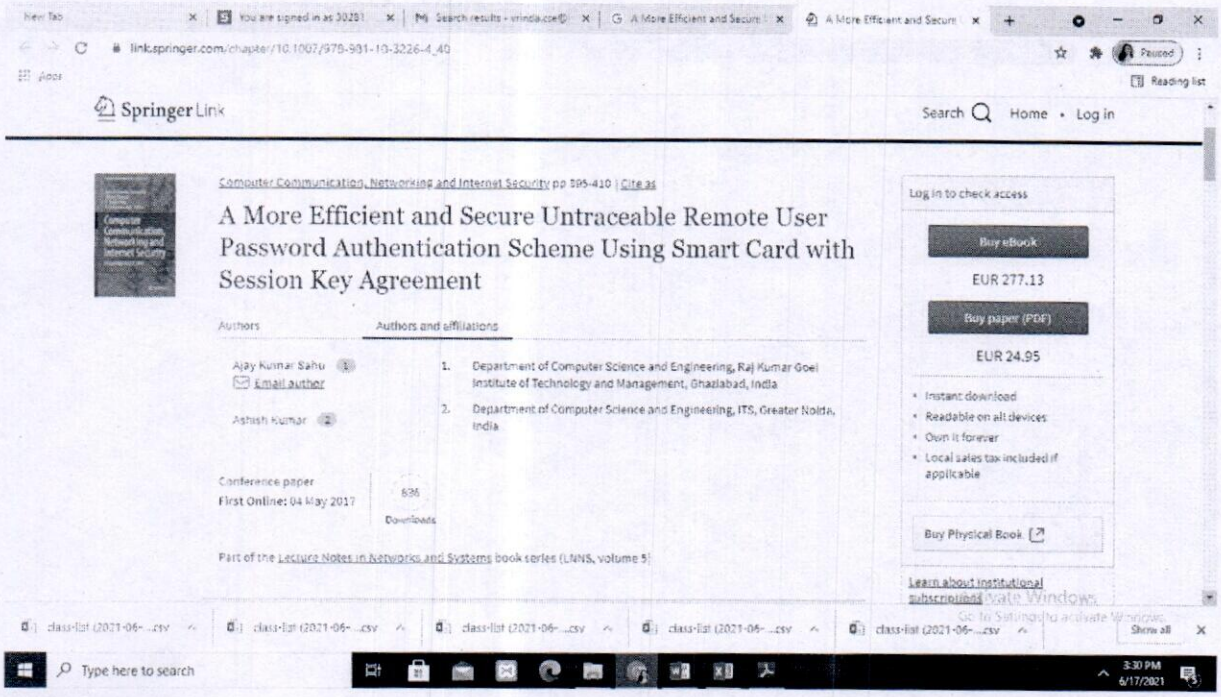

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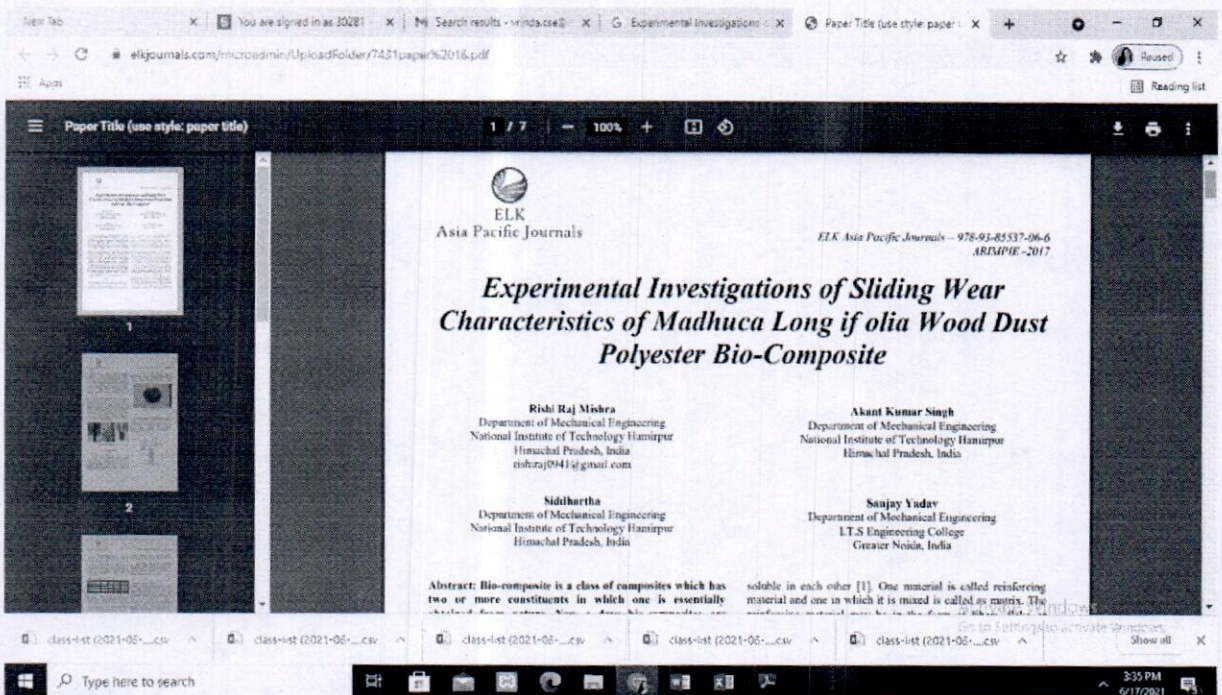

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Experimental Investigations of Sliding Wear Characteristics of Madhuca Long if olia Wood Dust Polyester Bio-Composite

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Abstract: Bio-composite is a class of composites which has two or more constituents in which one is essentially soluble in each other [1]. One material is called reinforcing material and one in which it is mixed is called as matrix. The

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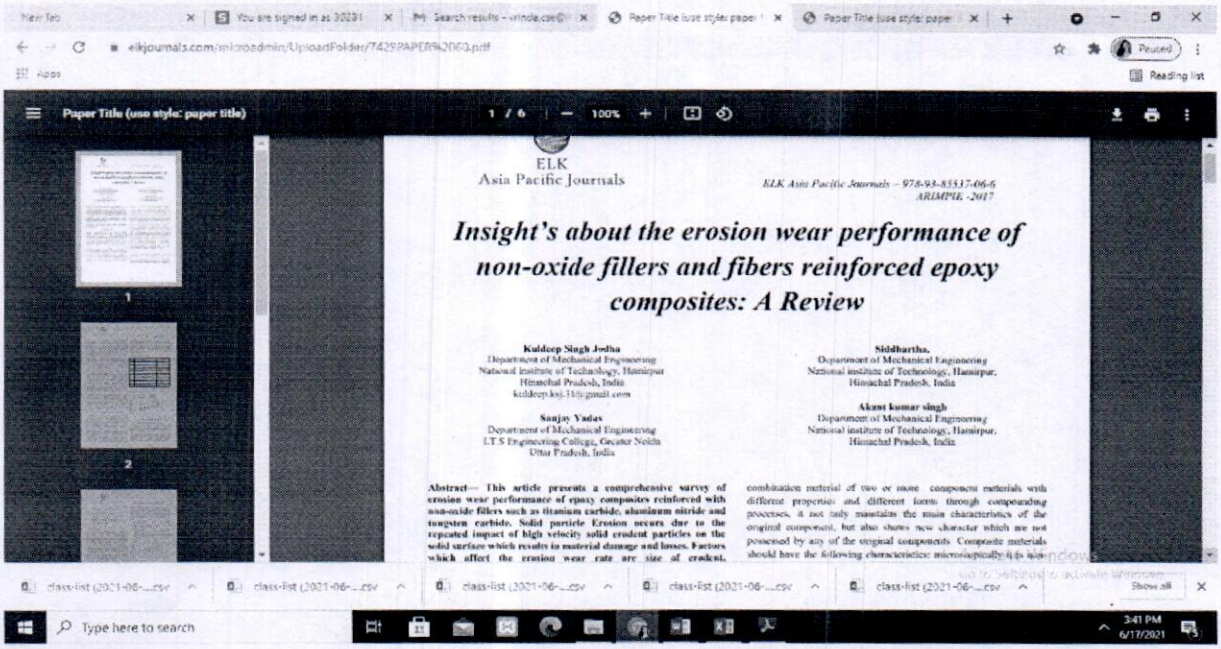

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Insight's about the erosion wear performance of non-oxide fillers and fibers reinforced epoxy composites: A Review

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Abstract— This article presents a comprehensive survey of erosion wear performance of epoxy composites reinforced with non-oxide fillers such as titanium carbide, aluminum nitride and tungsten carbide. Solid particle Erosion occurs due to the repeated impact of high velocity solid erodent particles on the solid surface which results in material damage and losses. Factors which affect the erosion wear rate are size of erodent, combination material of two or more component materials with different properties and different forms through compounding processes, it not only maintains the main characteristics of the original component, but also shows new character which are not possessed by any of the original components Composite materials should have the following characteristics: microscopically, it is non-

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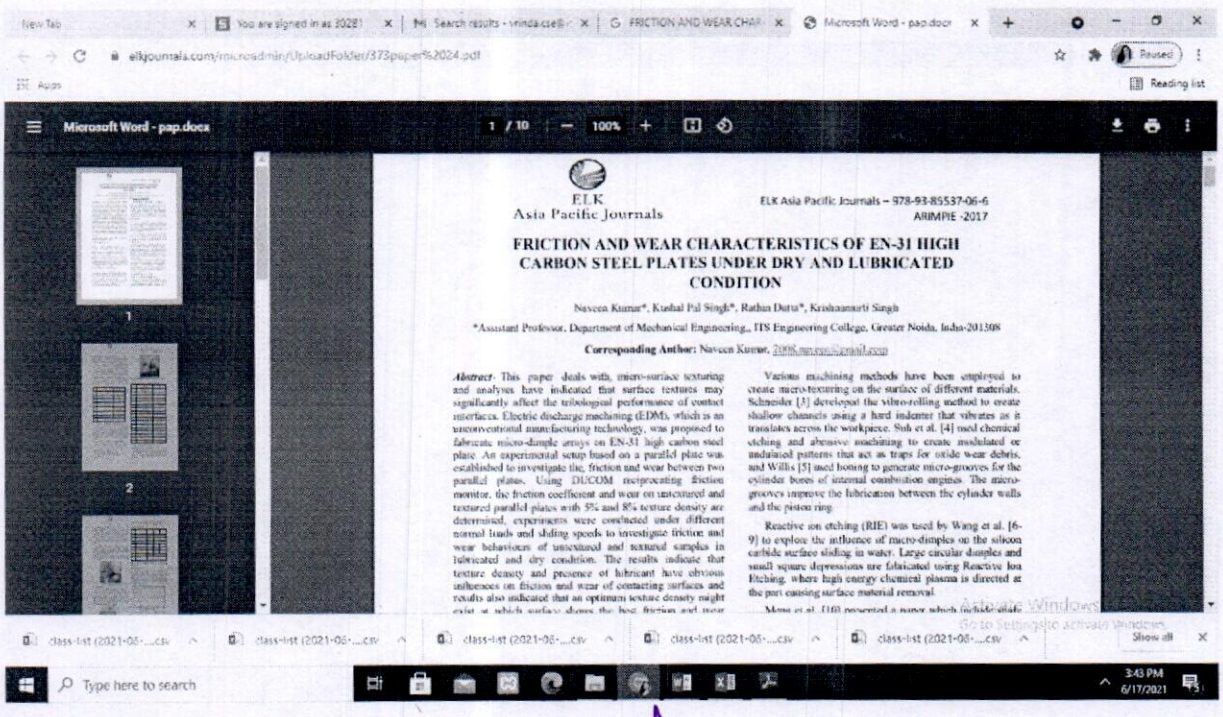

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FRICTION AND WEAR CHARACTERISTICS OF EN-31 HIGH CARBON STEEL PLATES UNDER DRY AND LUBRICATED CONDITION

Naveen Kumar*, Kushal Pal Singh*, Rathin Dutta*, Krishnamurti Singh

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Abstract This paper deals with, micro-surface texturing and analyses have indicated that surface textures may significantly affect the tribological performance of contact interfaces. Electric discharge machining (EDM), which is an unconventional manufacturing technology, was proposed to fabricate micro-dimple arrays on EN-31 high carbon steel plate. An experimental setup based on a parallel plate was established to investigate the, friction and wear between two parallel plates. Using DUCOM reciprocating friction monitor, the friction coefficient and wear on untextured and textured parallel plates with 5% and 8% texture density are determined, experiments were conducted under different normal loads and sliding speeds to investigate friction and wear behaviours of untextured and textured samples in lubricated and dry condition. The results indicate that texture density and presence of lubricant have obvious influences on friction and wear of contacting surfaces and results also indicated that an optimum texture density might exist, at which surface shows the best friction and wear

Various machining methods have been employed to create micro-texturing on the surface of different materials. Schneider [3] developed the vibro-rolling method to create shallow channels using a hard indenter that vibrates as it translates across the workpiece. Suh et al. [4] used chemical etching and abrasive machining to create modulated or undulated patterns that act as traps for oxide wear debris, and Willis [5] used honing to generate micro-grooves for the cylinder bores of internal combustion engines. The micro-grooves improve the lubrication between the cylinder walls and the piston ring.

Reactive ion etching (RIE) was used by Wang et al. [6-9] to explore the influence of micro-dimples on the silicon carbide surface sliding in water. Large circular dimples and small square depressions are fabricated using Reactive Ion Etching, where high energy chemical plasma is directed at the part causing surface material removal.

Mezg et al. [10] presented a paper which include static

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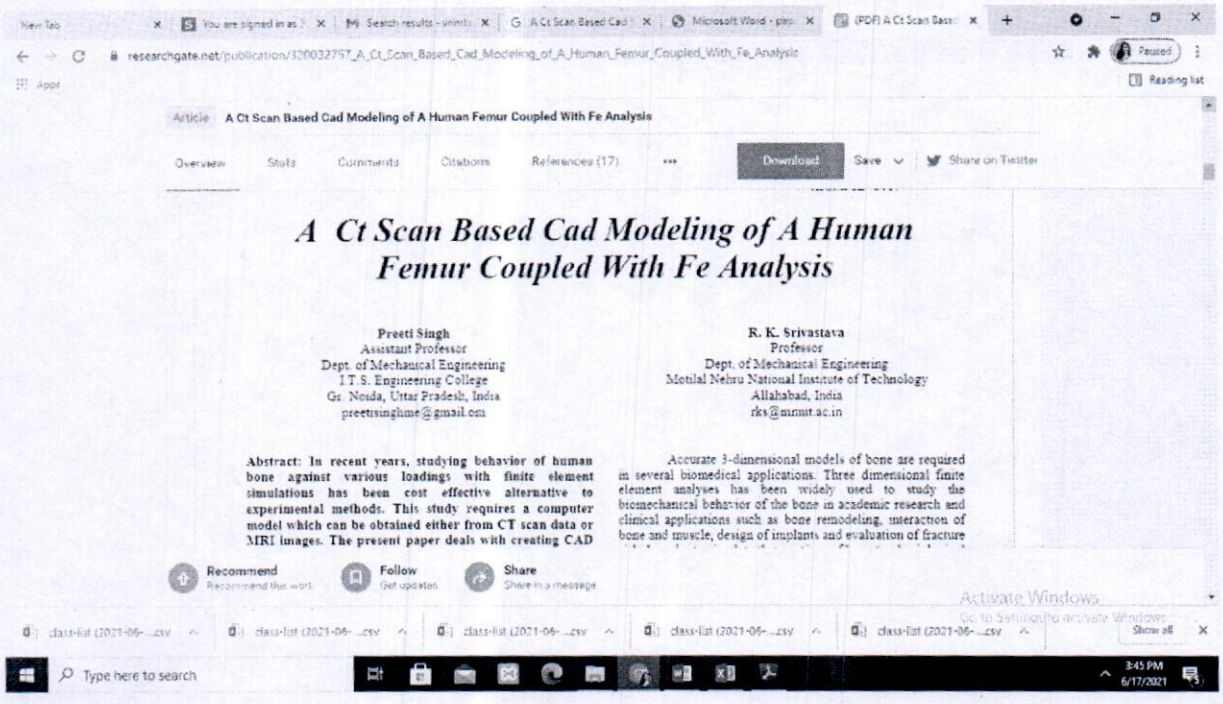

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A Ct Scan Based Cad Modeling of A Human Femur Coupled With Fe Analysis

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Abstract: In recent years, studying behavior of human bone against various loadings with finite element simulations has been cost effective alternative to experimental methods. This study requires a computer model which can be obtained either from CT scan data or MRI images. The present paper deals with creating CAD

Accurate 3-dimensional models of bone are required in several biomedical applications. Three dimensional finite element analyses has been widely used to study the biomechanical behavior of the bone in academic research and clinical applications such as bone remodeling, interaction of bone and muscle, design of implants and evaluation of fracture

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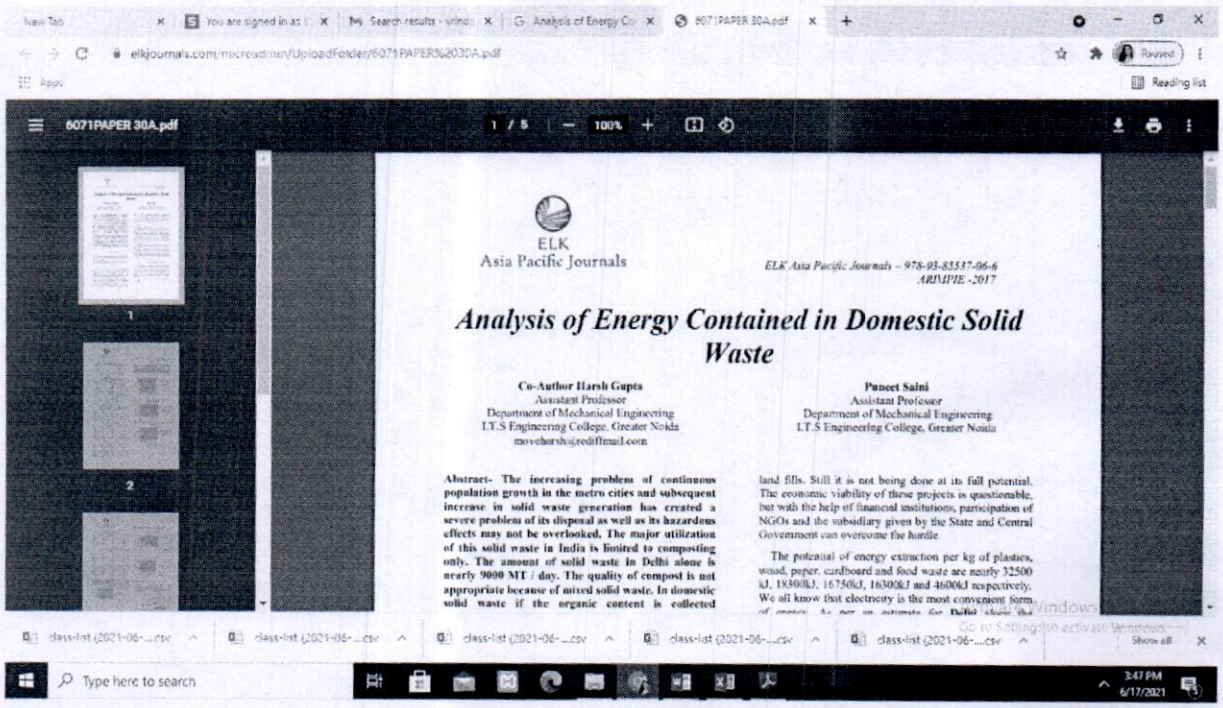

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Analysis of Energy Contained in Domestic Solid Waste

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Abstract- The increasing problem of continuous population growth in the metro cities and subsequent increase in solid waste generation has created a severe problem of its disposal as well as its hazardous effects may not be overlooked. The major utilization of this solid waste in India is limited to composting only. The amount of solid waste in Delhi alone is nearly 9000 MT / day. The quality of compost is not appropriate because of mixed solid waste. In domestic solid waste if the organic content is collected

land fills. Still it is not being done at its full potential. The economic viability of these projects is questionable, but with the help of financial institutions, participation of NGOs and the subsidiary given by the State and Central Government can overcome the hurdle.

The potential of energy extraction per kg of plastics, wood, paper, cardboard and food waste are nearly 32500 kJ, 18300kJ, 16750kJ, 16300kJ and 4600kJ respectively. We all know that electricity is the most convenient form

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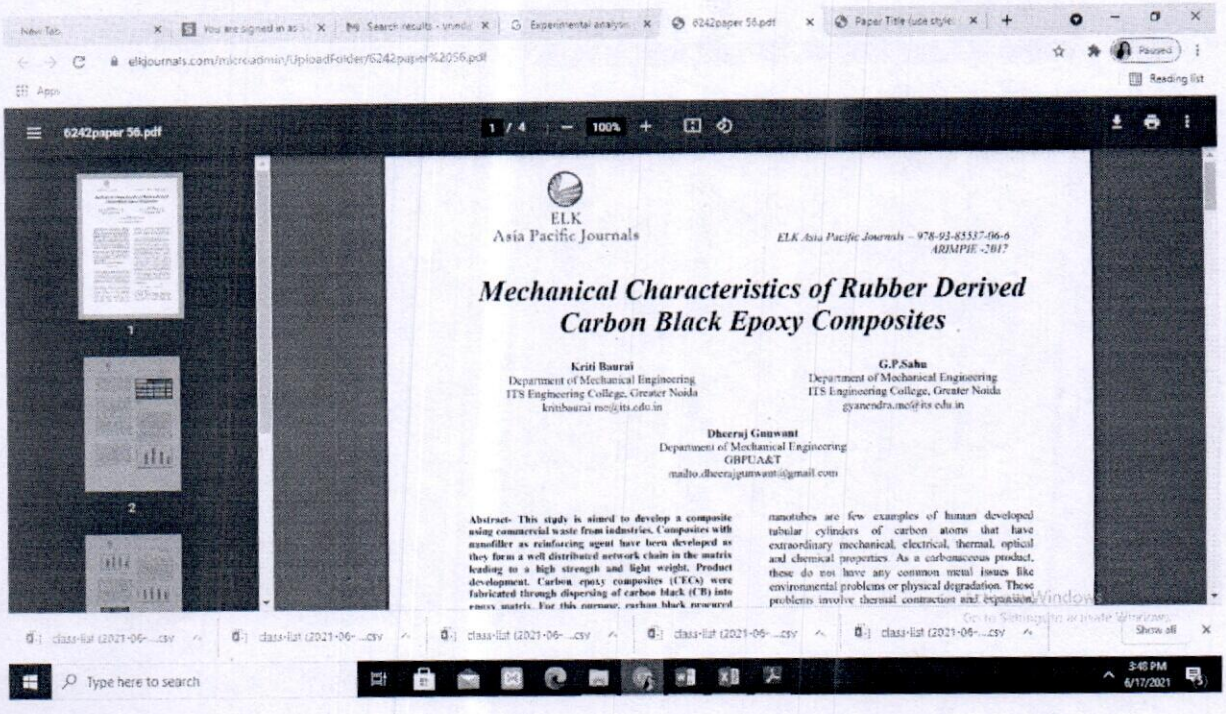

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Mechanical Characteristics of Rubber Derived Carbon Black Epoxy Composites

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Abstract- This study is aimed to develop a composite using commercial waste from industries. Composites with nanofiller as reinforcing agent have been developed as they form a well distributed network chain in the matrix leading to a high strength and light weight. Product development. Carbon epoxy composites (CECs) were fabricated through dispersing of carbon black (CB) into epoxy matrix. For this purpose, carbon black procured

nanotubes are few examples of human developed tubular cylinders of carbon atoms that have extraordinary mechanical, electrical, thermal, optical and chemical properties. As a carbonaceous product, these do not have any common metal issues like environmental problems or physical degradation. These problems involve thermal contraction and expansion,

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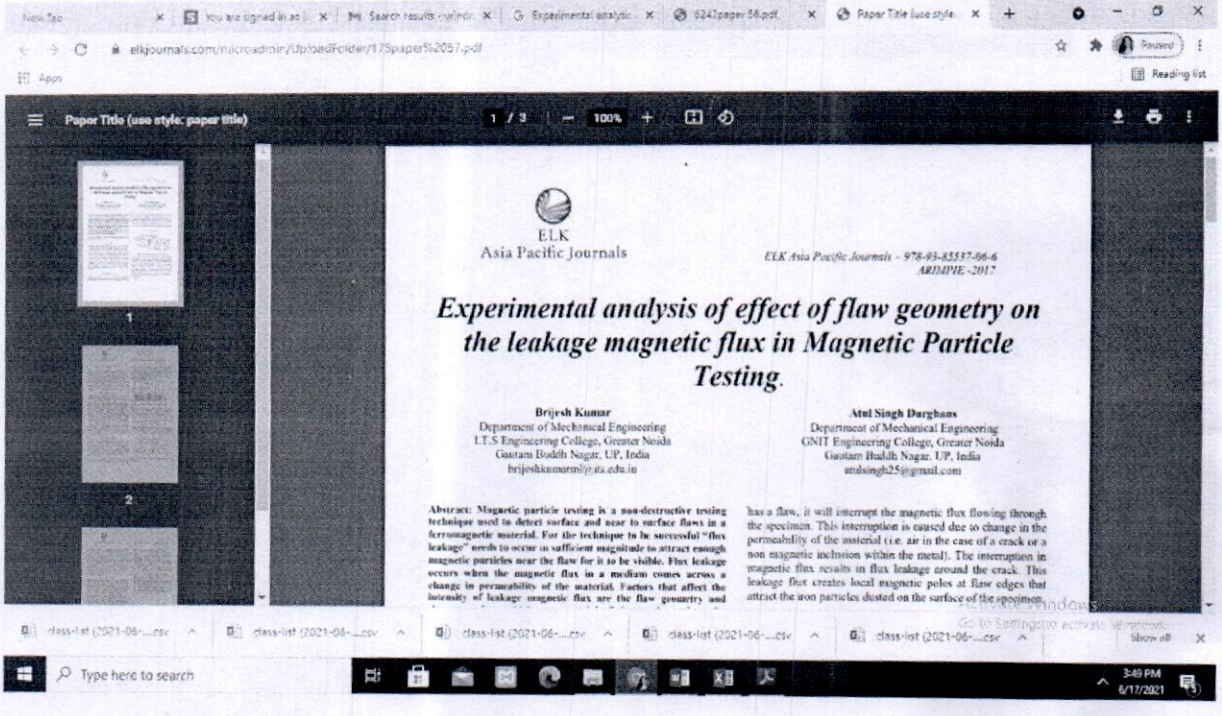

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Experimental analysis of effect of flaw geometry on the leakage magnetic flux in Magnetic Particle Testing.

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Abstract: Magnetic particle testing is a non-destructive testing technique used to detect surface and near to surface flaws in a ferromagnetic material. For the technique to be successful "flux leakage" needs to occur in sufficient magnitude to attract enough magnetic particles near the flaw for it to be visible. Flux leakage occurs when the magnetic flux in a medium comes across a change in permeability of the material. Factors that affect the intensity of leakage magnetic flux are the flaw geometry and

has a flaw, it will interrupt the magnetic flux flowing through the specimen. This interruption is caused due to change in the permeability of the material (i.e. air in the case of a crack or a non magnetic inclusion within the metal). The interruption in magnetic flux results in flux leakage around the crack. This leakage flux creates local magnetic poles at flaw edges that attract the iron particles dusted on the surface of the specimen.

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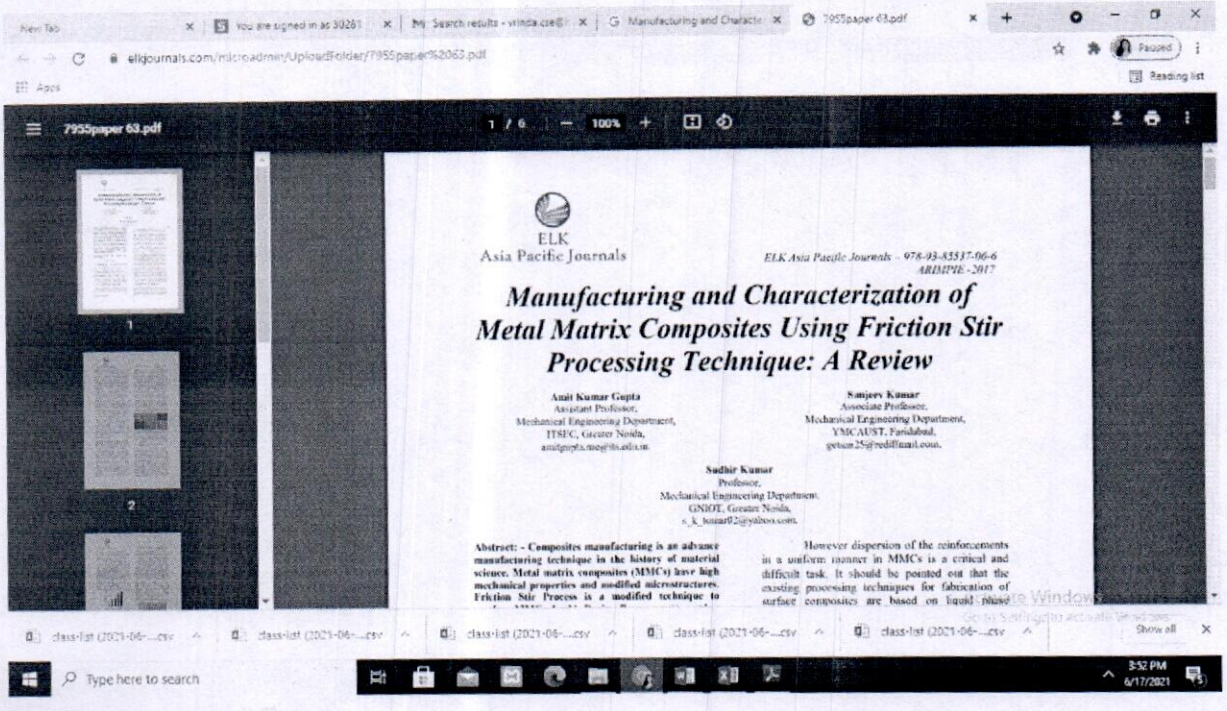

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Manufacturing and Characterization of Metal Matrix Composites Using Friction Stir Processing Technique: A Review

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Abstract: - Composites manufacturing is an advance manufacturing technique in the history of material science. Metal matrix composites (MMCs) have high mechanical properties and modified microstructures. Friction Stir Process is a modified technique to

However dispersion of the reinforcements in a uniform manner in MMCs is a critical and difficult task. It should be pointed out that the existing processing techniques for fabrication of surface composites are based on liquid - phase

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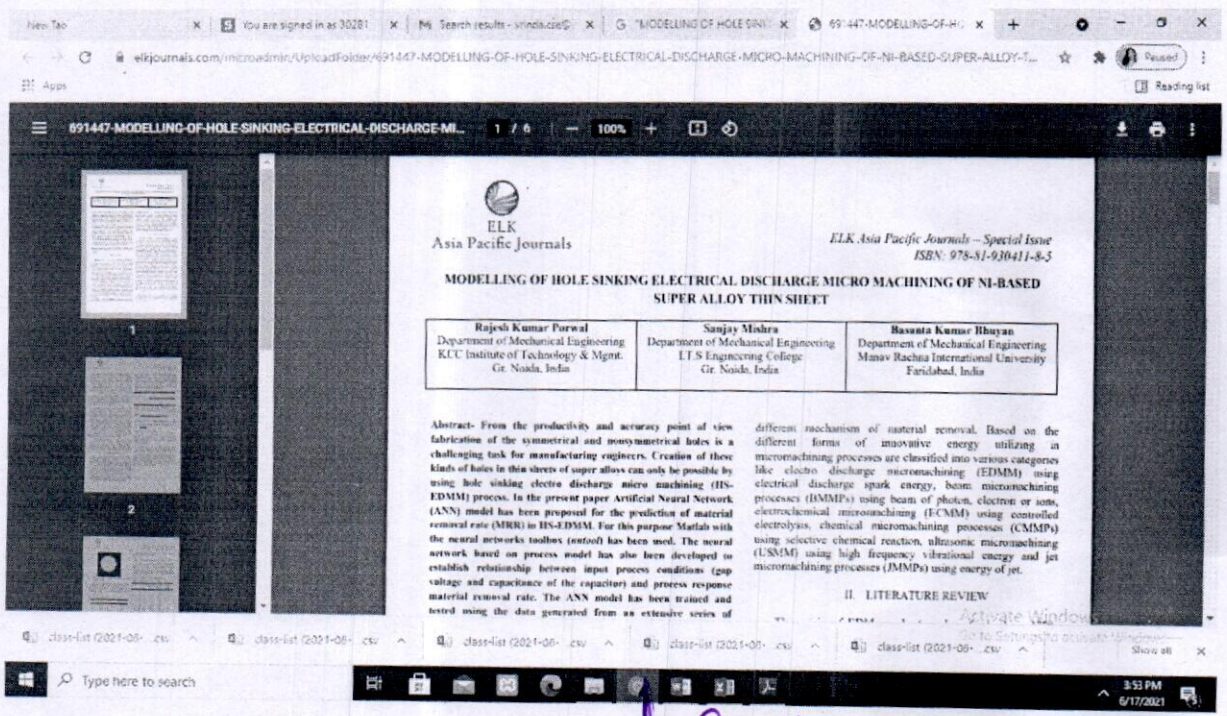

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MODELLING OF HOLE SINKING ELECTRICAL DISCHARGE MICRO MACHINING OF NI-BASED SUPER ALLOY THIN SHEET

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Abstract- From the productivity and accuracy point of view fabrication of the symmetrical and nonsymmetrical holes is a challenging task for manufacturing engineers. Creation of these kinds of holes in thin sheets of super alloys can only be possible by using hole sinking electro discharge micro machining (HS-EDMM) process. In the present paper Artificial Neural Network (ANN) model has been proposed for the prediction of material removal rate (MRR) in HS-EDMM. For this purpose Matlab with the neural networks toolbox (nntool) has been used. The neural network based on process model has also been developed to establish relationship between input process conditions (gap voltage and capacitance of the capacitor) and process response material removal rate. The ANN model has been trained and tested using the data generated from an extensive series of

different mechanism of material removal. Based on the different forms of innovative energy utilizing in micromachining processes are classified into various categories like electro discharge micromachining (EDMM) using electrical discharge spark energy, beam micromachining processes (BMMPs) using beam of photon, electron or ions, electrochemical micromachining (E-CMM) using controlled electrolysis, chemical micromachining processes (CMMPs) using selective chemical reaction, ultrasonic micromachining (USMM) using high frequency vibrational energy and jet micromachining processes (JMMPs) using energy of jet.

II. LITERATURE REVIEW

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