



## **Sri Sarada College for Women**

(An Autonomous Institution)

(Reaccredited with "A" grade by NAAC)

Institution included u/s 2(f) and 12(B) of UGC

Affiliated to Manonmaniam Sundaranar University

(A branch of Sri Ramakrishna Tapovanam, Tirupparaithurai)

Ariyakulam, Tirunelveli Thoothukudi-High Road, Maharaja Nagar Post,

**TIRUNELVELI-627011.**



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**(2023-2024)**



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E-mail: [srisaradatvl@gmail.com](mailto:srisaradatvl@gmail.com) Website: [www.srisaradacollege.org](http://www.srisaradacollege.org)



## A Textbook on HUMAN RIGHTS

First Edition



P. Chandrasekaran  
K.Ramalakshmi  
V.Sangeetha  
R.Kavitha  
Milka Vijayan

*Kamala*  
PRINCIPAL  
SRI SARADA COLLEGE FOR WOMEN  
(Autonomous)  
TIRUNELVELI - 627 011



*A. maleela*  
Coordinator - IQAC  
Sri Sarada College for Women (Autonomous),  
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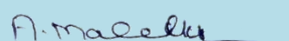
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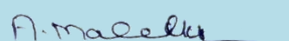
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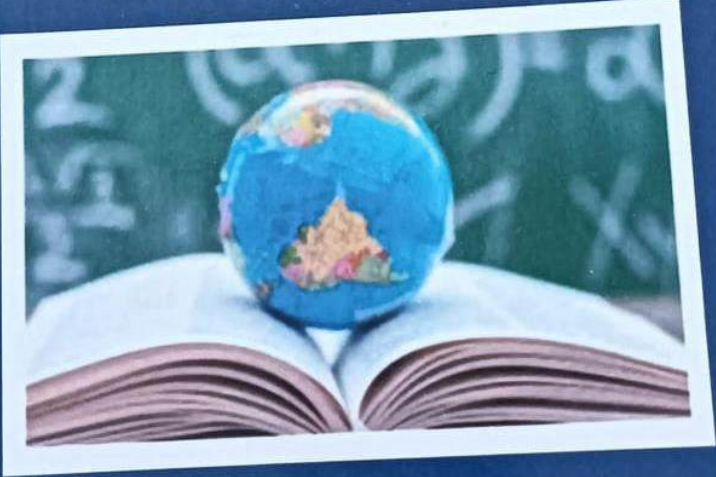
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பன்னாட்டுக் கருத்தரங்கம்  
மொழியும் இலக்கியமும்



ஸ்ரீ சாரதா கல்வி நிறுவன வெளியீடு  
தமிழ்த்துறை

ஸ்ரீ சாரதா மகளிர் கல்லூரி (தன்னாட்சி)  
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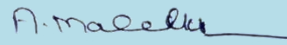
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ஸ்ரீ சாரதா மகளிர் கல்லூரி (தன்னாட்சி), தமிழ்த்துறை

ஒளவையாரின் குறுந்தொகைப் பாடல்களில் அகமொழிகள்

த. தனலெட்சுமி

இணைப்பேராசிரியர் மற்றும் தமிழ்த்துறைத்தலைவர்,

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திருநெல்வேலி - 627011

[dhanamkirthik@gmail.com](mailto:dhanamkirthik@gmail.com)

முன்னுரை :

செம்மொழியாகிய தகுதி பெற்ற தமிழ்மொழி இலக்கிய வளமுடைய மொழி. வாழ்விற்கு வழிகாட்டும் உன்னத மொழி. உலகில் உள்ள பெரும்பாலான மொழிகளில் எழுத்து இலக்கணமும், சொல் இலக்கணமும் கூறப்படுகின்றன. ஆனால் தமிழில் மட்டுமே வாழ்வியலுக்கு இலக்கணம் தரப்பட்டுள்ளது. அவை அகம், புறம் என்பதாகும். "அகம்" எனும் நிலையில் காதல் வாழ்க்கையாகிய களவம், திருமணவாழ்க்கையாகிய கற்பும் கோட்பாடாக வகுக்கும் மொழி தமிழ்மொழி மட்டுமே. அவ்வகையில் "தொகை" நூல்களாகக் கூறப்படும் எட்டுத்தொகை நூல்களில் உள்ள அகநூலான குறுந்தொகையில் ஒளவையாரின் பாடல்வழி தலைவன் தலைவியின் அகமொழிப்பண்பினை இக்கட்டுரையில் காணலாம்.

குறுந்தொகைச் சிறப்பு :

பதினெண்மேற்கணக்கு நூல்களில் ஒன்று தொகை நூல்கள். அந்நூல்களின் வரிசையில் ஐந்து அகநூல்களில் ஒன்றானது குறுந்தொகை. பழந்தமிழரின் அகவாழ்க்கையை எடுத்தியம்பும் இந்நூல் "நல்ல" எனும் அடைமொழியோடு அமைந்து ஆசிரியப்பாவால் பாடப்பட்ட நூல். சிற்றெல்லை 4 அடிகளையும், பேரெல்லை 8 அடிகளையும் உடையது. ஒரு பாடல் மட்டும் 9 அடிகளைக்கொண்டு, வாழ்த்துப்பாவோடு 402 பாடல்களைக் கொண்டது. 205 புலவர்களால் பாடப்பெற்றது. இந்நூலைத்தொகுத்தவர் பூரிக்கோ. அகவாழ்க்கைப் பெட்டகமாக விளங்கும் குறுந்தொகை நூலில் சிறப்பாகப் பேசப்படும்,

"யாயும் ஞாயும் யாரா கியரோ

எந்தையும் நுந்தையும் எம்முறைக் கேளிர்

யானும் நீயும் எவ்வழி அறிதும்

செம்புலப் பெயல் நீர் போல

அன்புடை நெஞ்சம் தாம்கலந்தனவே"

எனும் பாடல் தலைவன் தலைவியின் அன்பு கலந்த உன்னத வாழ்க்கையினை எடுத்தியம்புவனவாகும். மேலும் புலவர்களின் கவிப்புலமையைப் பாராட்டும் விதத்தில் பல்வேறு பாடல்கள் இந்நூலில் அமைந்துள்ளன.

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தொல்காப்பியம் கவிராசமார்க்கம் - மொழி நிலையில் ஒப்பீடு

சு. அபிலாசுந்தரி,  
உதவிப்பேராசிரியர், தமிழ்த்துறை  
பாரத் கல்வியியல் கல்லூரி, இலத்தூர்,  
தென்காசி - 627803  
sabila.sundari.89@gmail.com

முன்னுரை :

உலகில் மனித இனங்கள் தோன்றிய போதே மொழியும் தோன்றியிருக்கும் என்று கருதலாம். ஆரம்ப காலத்தில் ஒருவர் தனது கருத்தைப் பிறருக்குத் தெரிவிக்க சைகை மொழியைப் பயன்படுத்தி, பின்னாளில் கூடி வாழ்ந்த காலங்களில் அது பேச்சுமொழியாக வளரத் தொடங்கியது எனலாம். ஒரு மொழி வரலாற்றில் இலக்கணம் எழுதப்படுவது அதாவது இலக்கணம் உருவாவது ஒரு மைல் கல்லாகும். இலக்கணம் தொடக்க காலத்தில் ஒரு மொழியின் அமைப்பை அதுவும் இலக்கிய மொழியின் அமைப்பை விளக்கும் நூலெனக் கருதப்பட்டது. அவ்வாறாக கருதப்பட்டவற்றில் தொல்காப்பியமும் ஒன்று. தொல்காப்பியம் தமிழில் கிடைத்த முதல் இலக்கண நூலாகும். இதில் தமிழ் மொழி குறித்த சொல்லடல், தமிழ்மொழி பேசப்படும் எல்லைகள், வழக்கு, செய்யுள், பேச்சுமொழி, எழுத்துமொழி போன்ற பல்வேறான கருத்துக்கள் காணக்கிடக்கின்றது. இதே போன்று கன்னட மொழியில் கிடைத்த முதல் இலக்கண நூலான கவிராசமார்க்கத்திலும் கன்னட மொழியின் சிறப்பு, கன்னட மொழியின் எல்லை, கன்னட மொழியின் நிலைப்பாடு என்பன போன்ற கூறுகள் நிரம்பக்கிடக்கின்றது. ஆகையால் இவ்விரு இலக்கண நூல்களில் காணப்படும் மொழி நிலைகளை ஒப்பிட்டு ஆராயும் விதமாக இக்கட்டுரை அமைகின்றது.

ஒப்பீடு பொருளும் வரையறையும் :

ஒப்பீடு என்பது ஒரு மொழியில் காணப்படும் இலக்கண இலக்கியத்தை அதே காலக்கட்டத்தைச் சேர்ந்த வேறு ஒரு நாட்டின் மொழியின் இலக்கண இலக்கியங்களோடு ஒப்பிட்டு ஆராய்வது ஒப்பீட்டு முறையில் அடங்கும்.

ஒப்பீடு என்பது "ஒரே மொழியில் தோன்றிய இலக்கணங்களை எல்லாம் ஒப்பிட்டு ஆய்வது, மொழிகளுக்கு இடையே வரலாறு என்ற முறையில் நூல் வரலாறு, கோட்பாட்டு வரலாறு அல்லது மொழியியல் இலக்கியவியல் என்ற முறையில் ஆய்வது. ஒரே மொழியில் தோன்றிய இலக்கணங்களைப் பொருளடிப்படையில் ஒப்பிட்டு, வளர்ச்சி (அமைப்பு வளர்ச்சி, கோட்பாட்டு வளர்ச்சி) தாக்கம் (முந்தைய நூல்களின் செல்வாக்கு) மதிப்பீடு என்ற முறையில் ஆராயலாம்" என்று செ.வை. சண்முகம் ஒப்பிலக்கணம்

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முனைவர் நா. வேலம்மாள்

நெறியாளர்

உதவிப் பேராசிரியர், தமிழ்த்துறை,

ராணி அண்ணா அரசு மகளிர் கல்லூரி,

திருநெல்வேலி - 627 008

[Velammal.rac2007@gmail.com](mailto:Velammal.rac2007@gmail.com)

க. சிந்து

பதிவு எண் : 19211174022029

முனைவர் பட்ட ஆய்வாளர்,

ராணி அண்ணா அரசு மகளிர் கல்லூரி,

மனோன்மணியம் சந்திரனார் பல்கலைக்கழகம்,

அபிஷேகப்பட்டி,

திருநெல்வேலி - 627 012

[Ksindhu.1987@gmail.com](mailto:Ksindhu.1987@gmail.com)

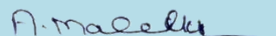
முன்னுரை :

மனிதசமுதாயத்தின் வரலாற்று ஆவணமாக விளங்குவது இலக்கியங்கள் ஆகும். அப்படியான இலக்கியங்களில் முக்கியப்பங்கு வகிப்பனவாக நாவல் இலக்கியம் அமைந்துள்ளது. நாவலானது மக்கள் தங்கள் வாழ்வில் எதிர்கொள்ளும் சிக்கல்களை முன்வைப்பதாக அமைந்துள்ளது. அதிலும் தற்போதைய காலகட்டத்தில் எழுதப்பட்டு வரும் நாவல்கள் வாழ்வின் இடைநிலையில் தொழில், சாதி, இனம், பொருளாதாரம், போன்ற இன்னும் பலகாரணங்களுக்காக ஒடுக்கப்பட்டு ஒடுங்கி வாழும் விளிம்புநிலை மக்களின் வாழ்க்கைப் பதிவுகளைப் பேசுவனவாகவே உள்ளன. விளிம்புநிலை மக்களின் வாழ்வியலைப் பேசும் நாவல்கள் அவர்களின் மொழிக்கூறுகளை எடுத்து இயம்புவனவாக அமைந்திருப்பதனைக் காண முடிகின்றது. மொழியானது மனித சமூகத்தின் அனைத்து உணர்வுகளையும் வெளிக் கொண்டு வரும் ஊடகமாகத் திகழ்கின்றது. அவ்வகையில் ஆண்களாலும், பெண்களாலும் படைக்கப்பட்டு வரும் விளிம்புநிலை நாவல்களில் இடம்பெறும் பெண்மொழியானது, விளிம்புநிலைப் பெண்களின் சமூகவாழ்வியலைப் பிரதிபலிப்பனவாகவே இருப்பதனைக் காணமுடிகின்றது. மலர்வதியின் காட்டுக்குட்டி, ஜீவாவின் தூர்காமாதா, பாமாவின் மனுஷி ஆகிய மூன்று விளிம்புநிலை நாவல்களில் பெண்மொழி அமைந்துள்ள பாங்கினை எடுத்துக்கூறுவதே இக்கட்டுரையின் நோக்கம் ஆகும்.

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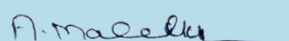
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FIRM'23

## A STUDY ON SUSTAINABLE AGRICULTURE

N. KAVIYA\*, S. GENGA DEVI\*\*, Dr. T. KALAVATHI\*\*\*

III B.A ECONOMICS, SRI SARADA COLLEGE FOR WOMEN'S (AUTONOMOUS), TIRUNELVELI

ASSISTANT PROFESSOR & HEAD OF ECONOMICS DEPARTMENT,  
SRI SARADA COLLEGE FOR WOMEN'S (AUTONOMOUS), TIRUNELVELI-  
MAIL:ID [2021uec07.kav@gmail.com](mailto:2021uec07.kav@gmail.com)\*, [2021uec05.gen@gmail.com](mailto:2021uec05.gen@gmail.com)\*\* , [kala.rosb@gmail.com](mailto:kala.rosb@gmail.com)\*\*\*


**ABSTRACT:** The paper presents the results of a scientific design focused on controlling nutrient losses by proposing measures to control diseases in a sustainable way. This is a case study on the named aspects of farm management, sustainable farming and their tools issue. The main outcome of the study was to analyze and assess farmers' knowledge of the fertilization process and its aspects, as well as the use of sustainable farming conditions. This study emphasized the importance of nutritional function, which is crucial for sustainable farming. Also, correlations between farmers' perceptions and their alignment were analyzed. They examined key issues related to measures for sustainable farm operations and measures to control nutrient leaching into groundwater. In general, farmers consider their farm renovations more stable than historical. They understood the general concept of sustainable farming. Still, many farmers showed nutrient overflow and poor grasp of nutrient balance. Their knowledge and opinion are based on general rather than specific knowledge selected from an academic/vocational course. Farmers expressed a sense of satisfaction that some new or low-cost measures could be introduced to make the operation more sustainable and environmentally friendly, but there was still a need to abandon sustainable farming practices on a large scale. Agriculture was once understood as catering to a narrow range, local market, but it has now taken on an international role. On the one hand, Polish farmers are subjected to international competition arising from mechanization and other issues related to increasing efficiency. But they also have to deal with resource management and the environment, which requires an advanced training system in farm management. The Food and Agriculture Organization defines sustainable agriculture as "food security, environmental protection, and production that meets economic and social needs. "In rural areas" this work is complex because it involves not only human activities such as farm management and agricultural policies

**KEYWORD:** controlling nutrient losses, fertilization process, nutrient overflow mechanization, food security, farm management.

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FIRM'23

## ANALYSING THE IMPACT OF REMUNERATIVE PRICE ON FARMER'S PRODUCE

\*T.MIRUNA DEVI, \*\*S.SUBBULAKSHMI & \*\*\*M.MUTHULAKSHMI

\*T.MIRUNA DEVI, Assistant professor, Department of Economics, Sri Sarada College for Women (Autonomous)  
Tirunelveli-627011., t.mirunadevi@gmail.com

\*\*S.SUBBULAKSHMI & \*\*\*M.MUTHULAKSHMI, III B.A ECONOMICS, Sri Sarada College for Women  
(Autonomous) Tirunelveli-627011., 2021uec22.sub@gmail.com\*

### ABSTRACT

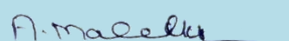
In India, agriculture is a prominent sector and it has a huge impact on the GDP growth of the country. It is the primary occupation and backbone of the country. India is currently the world second largest producer of agricultural products like paddy, wheat, raw jute, cotton, dry fruits, pulses, grains and numerous vegetables etc. India is ranked under the world's fifth largest producer and produces 80 percent of agriculture produce around the country. In our country to give assurance & to give remunerative prices to the farmers and for the benefit of consumers by ensuring supplies at rational prices, towards this end the Commission for Agriculture Cost and Prices (CACP) suggested the Minimum Support Price (MSP) based on guaranteed economic measure. Through the right to Minimum Support Price, the farmers can get remunerative price as provided by the constitution of India. The CCAP announced the minimum support price to 22 major agricultural commodities every year. The biggest challenge in our country is to provide remunerative prices on farmers produce because there is need to enhance budget allocations and support from state governments. The farmers rights activists and farmers organizations are feeling that MSP is not fulfilling the farmers minimum needs. Farmers have no right to fix the price for their produce. Minimum support price is life and death for most of the farmers in India, denial of minimum support price has been contributing huge effect on farmers' income and national GDP. Government or Non-governmental organizations take initiative to provide awareness about technological innovations programs and other priorities decrease the burden of the farmers and it will build inner strength in the farmers. Government needs a more comprehensive and ambitious agenda to help the farmers in fixing remunerative prices. There is a need for changing the market system regulated market laws. Agricultural Produce Market Committee Act is not providing freedom to the farmers to fix their prices. So the government must allow the farmers to fix the price which is produced by them or consult them while fixing prices.

**Keywords:** Commission for Agriculture Cost and Prices (CACP), Minimum support price, Government support, Agricultural price policy, Remunerative price.

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## A STUDY ON SUSTAINABLE AGRICULTURE IN INDIA

S.ARCHANA SELIN\*, Dr.P.AKILA\*\*, E.SANTHANA BALA DIVYA\*\*\*

Assistant Professor of Economics\*, Assistant Professor of Social Work\*\*, Assistant Professor  
of English\*\*\* - Sri Sarada College for Women (Autonomous) Tirunelveli-627011

[archanaselin@gmail.com](mailto:archanaselin@gmail.com) \* [akilajesusraja@gmail.com](mailto:akilajesusraja@gmail.com) \*\* [divyagoody1521@gmail.com](mailto:divyagoody1521@gmail.com) \*\*\*

### Abstract

By 2050, the world's population is expected to be about 10 billion, according to the UN. It has been a significant global issue to feed these people. A substantial debate has been sparked by concerns that the world's food supply would not keep up with demand. Although farmers have employed a variety of strategies in the past to boost the volume of their output, these strategies have been exhausted. Agriculture of the future will need to employ fresh strategies designed to boost output and save the environment. It has been acknowledged that the most practical means of feeding the world's rapidly expanding population is through sustainable agriculture. A sustainable agribusiness is one that keeps soil fertility high while producing a lot of food while preserving the environment. This article provides an introduction to sustainable agriculture.

Key Words: Sustainable Farming, Sustainable Agriculture, Environment, Technology





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TIRUNELVELI-627011



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P. Karpagavinayagam, V. Rajarajeswari, K. Lakshmi, and C. Vedhi\*

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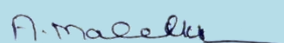
**SUBJECTS:** Electrodes, Manufacturing, Sensors, Solvents, Two dimensional materials

## Abstract

Significant advances in green electrochemical sensors (G-ECS) for biological, ecological, and industrial studies are presented in this chapter. The design method and electrode processes used are highlighted in detail, and applications are indicated where applicable. Chemicals, reagents, and methods that adhere to the principles of green analytical chemistry are already used in the design and use of ECS. With the primary goal of decreasing the environmental impact, harmless electrodes, environmentally friendly solvents and solutions, and techniques that allow for the decrease of sample size and waste product amounts are being used. These elements are briefly covered in this concise overview by addressing the state-of-the-art of G-ECS in relation to green chemistry. These designed and developed instruments are excellent and environmentally friendly chemical process concep

  
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### Abstract

Sensors have enhanced people's daily lives by being used in practically all profession. Sensing and its varied functions are continually improving in response to technological breakthroughs and commercial requirements. Sensors are used in a wide range of fields in lifestyles, medical, sports, production, and everyday lives. In everyday lives, several types of sensors are employed to improve accuracy and speed up assessment. Sensing technology is developing technology and economic prerequisites. It is critical to plan for these developments and consider how sensing technology might be used to generate further inventions. Anyone working in the industrial or technical disciplines has to understand sensing technologies, and sensors are the first and most important components in generating new worth. Smarter Sensing is a method created in the mid-1960s that demonstrated great advancements in combined signal read-out and processing in the nineties. This study describes how sensing technology has a role in everyday life and how much it enhances the quality of life. Sensors for biological, ecological, and industrial investigations have advanced significantly, as described in this chapter.

*Kamala*  
PRINCIPAL  
SRI SARADA COLLEGE FOR WOMEN  
(Autonomous)  
TIRUNELVELI - 627 011



*A. Malek*  
Coordinator - IQAC  
Sri Sarada College for Women (Autonomous),  
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## TRANSFORMING HEALTHCARE SECTOR WITH BLOCKCHAIN TECHNOLOGY

**S.KANAGASANKARI**

Research Scholar,  
Department of Computer Science,  
Sri Sarada College for Women (Autonomous),  
Tirunelveli, Tamil Nadu, India.  
Affiliated to Manonmaniam Sundaranar University,  
Abishekapatti, Tirunelveli, Tamil Nadu, India.

**Dr.V.VALLINAYAGI**

Head & Associate Professor,  
PG & Research, Department of Computer Science,  
Sri Sarada College for Women (Autonomous),  
Tirunelveli, Tamil Nadu, India.

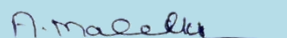
### Abstract:

As several market sectors looked for methods to integrate blockchain technology's capabilities into their operations, it has recently demonstrated great versatility. Although the financial services sector has received the majority of attention thus far, a number of projects in other service-related industries, like healthcare, demonstrate this is starting to change. One of the primary advantages of blockchain technology in healthcare is its ability to provide a secure and immutable record of patient health data. With a decentralized system of records, patients have greater control over their health data and can choose who has access to it. This allows patients to share their medical records with healthcare providers as needed, without having to worry about their data being compromised. This article focuses on a variety of blockchain technology entry points for the healthcare sector. The use of blockchain technology is being investigated to enhance the security and privacy of data while retaining the interoperability of patient health information amongst healthcare organizations. Blockchain technology can help healthcare providers streamline their operations by reducing the time and costs associated with managing patient data. By leveraging blockchain-based solutions, healthcare providers can more efficiently share patient data and ensure that it is accurate and up-to-date. Exploring and classifying the advantages of blockchain technology applications in a healthcare system is the goal of this review.

**Keywords:** Blockchain, Consensus, EHR, Healthcare, Supply Chain Management

  
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## AN INNOVATIVE KEY GENERATION ALGORITHM FOR ENCRYPTION AND DECRYPTION BASED ON DNA CODON PREDEFINED TABLE

P.ANITHA

Research Scholar,  
Department of Computer Science,  
Sri Sarada College for Women (Autonomous), Tirunelveli-627011  
Affiliated to Manonmaniam Sundaranar University,  
Abishekapatti, Tirunelveli, Tamil Nadu, India

Dr.V.VALLINAYAGI

Associate Professor & Head,  
Department of Computer Science,  
Sri Sarada College for Women (Autonomous), Tirunelveli,  
Affiliated to Manonmaniam Sundaranar University,  
Abishekapatti, Tirunelveli, Tamil Nadu, India

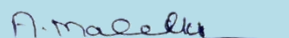
### Abstract

A significant challenge is using the DNA sequence as an information carrier to conceal information. Because it is challenging to distinguish between an authentic DNA sequence and a fake one, it can be used to hide data based on some special characteristics of DNA. By using an improved method to store a large amount of data in a little piece of DNA, DNA cryptography offers security and data integrity. The suggested encryption and decryption system is based on DNA sequences A, C, and G letters for color imagery. Separate the RGB image into its R, G, and B components. Apply the encryption method first to the Red channel, and then to the Blue and Green channels as well. With a focus on the predefined DNA sequence codon predefined index, the key generation technique for a novel watermarking image encryption and decryption system is based on DNA codons for RGB images. The recipient receives both the DNA sequence and the encrypted data, which must be decrypted in order to access the original data. In this way, the transmitter and receiver's encryption and decryption algorithms will use the specified index value for the shared DNA sequence. According to the investigation, the suggested method is more resilient to particular threats and ensures data secrecy and integrity throughout data transfer.

**Keywords:** Cryptography, DNA Sequence, Predefined index, Secrecy

  
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## Transforming Healthcare Sector with Blockchain Technology

\* S.KANAGASANKARI \*\* V.VALLINAYAGI

Research Scholar, Registration No: 21111262282001 Department of Computer Science,  
Sri Sarada College for Women (Autonomous), Tirunelveli-627011  
Affiliated to Manonmaniam Sundaranar University, Abishekapatti,  
Tirunelveli-627012, Tamil Nadu, India  
[kanagasankari1975@gmail.com](mailto:kanagasankari1975@gmail.com)

### ABSTRACT:

As several market sectors looked for methods to integrate blockchain technology's capabilities into their operations, it has recently demonstrated great versatility. Although the financial services sector has received the majority of attention thus far, a number of projects in other service-related industries, like healthcare, demonstrate this is starting to change. This article focuses on a variety of blockchain technology entry points for the healthcare sector. The use of blockchain technology is being investigated to enhance the security and privacy of data while retaining the interoperability of patient health information amongst healthcare organizations. Exploring and classifying the advantages of blockchain technology applications in a healthcare system is the goal of this review.

**Keywords:** Blockchain, Healthcare, Applications, EHR, Supply chain management

### I. INTRODUCTION:

Blockchain, a technology that has revolutionized data interchange and administration, notably in the financial industry, has taken the globe by storm. Its enormous success in several industries has raised concerns in the healthcare sector as well. Many refer to blockchain as the "solution to interoperability" and the "technology that will solve healthcare's looming challenges". Let's work to grasp the implications of blockchain for the healthcare sector one question at a time.

### DISTRIBUTED LEDGER TECHNOLOGY:

Blockchain, a key element of the virtual currency known as "bitcoin," was created in 2008 by Satoshi Nakamoto, "unknown," or rather a pseudonymous person (or group). A distributed, write-once-read-only record of digital events in a chronological sequence that is shared in a peer-to-peer network is what blockchain is, technical jargon aside [1]. It maintains a database of exchanges and transactions that is accessible to authorized users who can add to it as necessary. What sets blockchain apart is that these authorized users cannot delete or edit any records, and no transaction can happen unless it has been approved by all users.

### II. BLOCKCHAIN FUNCTIONS:


There are three main parts to the distributed ledger technology known as blockchain:

1. **Distributed Network:** Each network participant acts as a node in the decentralized P2P architecture, where each node holds an identical copy of the blockchain and is permitted to certify and validate digital transactions for the network.

2. **Shared Ledger:** A shared ledger is used by network users to keep track of ongoing

  
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Chapter 10

## Advanced Wireless Mobile Network on Financial Literacy

R. Muthu Lakshmi, A. Maria Bharathi

Book Editor(s): A. Suresh, J. Ramkumar, M. Baskar, Ali Kashif Bashir

First published: 06 October 2023 | <https://doi.org/10.1002/9781119827603.ch10>

 Resource Management in Advanced Wireless Networks

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### Summary

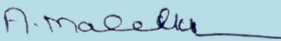
Advanced Wireless network plays an important role to develop financial inclusion and financial literacy. Financial literacy can be improved through wireless network among the

### Recommended

[Impact of financial literacy models on the financial behavior of individuals: An empirical study on the Indian context](#)

  
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## BOOK OF ABSTRACTS

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"PARADIGM SHIFT ON  
SUSTAINABLE  
BUSINESS AND MANAGEMENT  
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Organized by  
VARTANA SAMVIDHA FORUM  
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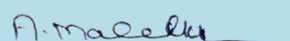
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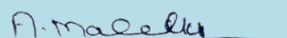


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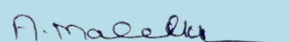


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THE NEW BUSINESS PARADIGM: DEVELOPING  
APPROACHES TO ORGANIZED TRANSFORMATION AND  
LEADERSHIP

**Dr.N.KAMALA\***

Principal, Sri Sarada College for Women,  
Ariyakulam, Tirunelveli-627011

**Dr.A.ARUNADEVI\*\***

Associate Professor, Department of Commerce (Corporate  
Secretaryship)

Sri Sarada College for Women, Ariyakulam, Tirunelveli-627011

Affiliated to Manonmaniam Sundaranar University,  
Tirunelveli, Tamil Nadu, India

E-Mail ID : [a.arunadevi@gmail.com](mailto:a.arunadevi@gmail.com)

## ABSTRACT

Global health issues, the ecological disaster, and evolving social ideals that are redefining personal priorities are all being witnessed by the world. The fundamental underpinnings of our society are also changing as a result of globalization and geopolitics. The way we work and live is constantly changing due to technological breakthroughs and the growth of digital natives. There's a new paradigm for organization and management on the rise, one that prioritizes transparency, flexibility, and maximizing people's potential. A new organizational paradigm that promotes cooperation, rethinks tactics, and produces inclusive, sustainable growth has been adopted by these firms. Their desire to provide value to all stakeholders while working in cooperative networks of autonomous teams that are always creating and changing is the foundation of their success. Businesses were shaped and run for decades to meet the industrial setting.

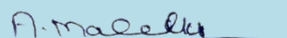
**Key Words:** Paradigm, Co-operation, transparency

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A STUDY ON INTEGRATED MARKETING  
COMMUNICATION PERSPECTIVE ON SOCIAL MEDIA  
METRICS

**Dr N.KAMALA\***

Principal, Sri Sarada College for Women (Autonomous),  
Tirunelveli-627011

**Dr S.ARUMUGA SELVI\*\***

Assistant Professor in Commerce (Corporate Secretaryship), Sri  
Sarada College for Women (Autonomous), Tirunelveli-627011,  
Tamil Nadu, India

Affiliated to Manonmaniam Sundaranar University,  
Tirunelveli, Tamil Nadu, India

E-Mail ID : [s.arumugaselvi@gmail.com](mailto:s.arumugaselvi@gmail.com)

## ABSTRACT

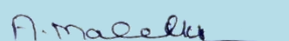
Social media metrics are valuable tools to prove how effective our social media strategy is and how it can impact our overall business. Social media metrics help to track our organization's social media goals—whether it is boosting awareness, engagement, or conversions. For every goal, there should be a related metric that determines whether our strategy is hitting the mark or not. The main objective of this study is to pinpoint the weak points of our strategy and to show the value of the communication in marketing. This study comprises of both primary data and secondary data collected from various reputed journals and magazines. Various statistical tools like liker scale, Garrett Ranking and chi square analysis are used to analyse the data collected from the respondents. The major metrics related to awareness engagement and conversation is considered for this analysis. Communication helps to understand how effectively our thought is moving to budding customers through different marketing channels.

**Keywords:** Communication, Digitalisation, Marketing, Social Media, Technologies

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IMPACT OF INFORMATION TECHNOLOGY ON  
INNOVATIVE BUSINESS IN MODERN DIGITAL ERA

Dr.P.SUGANYA\*, Dr.R.PUSHPA LATHA \*\*  
Assistant Professor, Department of Commerce  
(Corporate Secretaryship)  
Sri Sarada College for Women, Ariyakulam, Tirunelveli-627011  
Affiliated to Manonmaniam Sundaranar University,  
Tirunelveli, Tamil Nadu, India  
E-Mail ID : [vinubalaganesh@gmail.com](mailto:vinubalaganesh@gmail.com)

## ABSTRACT

The technology which has already proved itself in last two decades is of course the information technology (IT). It has dramatically changed the lives of the individuals and organisations. Currently online shopping, digital marketing, social networking, digital communication and cloud computing etc are the best pattern of change which came through the wave of information technology. Now, accurate business planning, effective marketing, global sales, systematic management, real time monitoring, instant customer support and long term business growth cannot be achieved at the optimum level without IT. The path of innovation in business wealth doing something diverse, smarter or better that will make a positive difference in terms of value, quality or productivity by using emerging or proved technologies of the world. This study focus on the Impact of Information Technology on Innovative business practices in modern digital Era.

**Key Words:** Information Technology, Innovation, Digital communication, Business.

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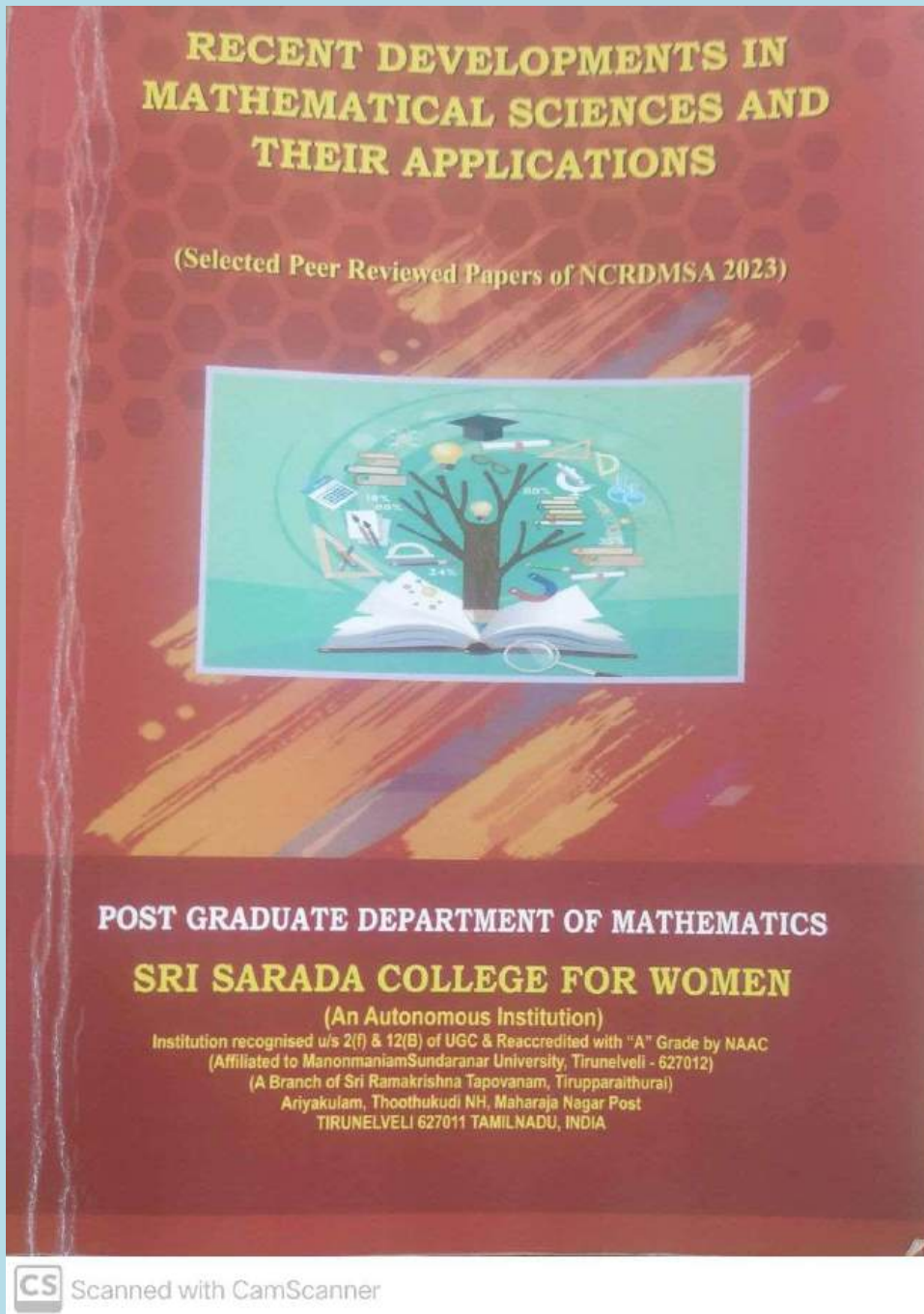
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*Kamala*  
PRINCIPAL  
SRI SARADA COLLEGE FOR WOMEN  
(Autonomous)  
TIRUNELVELI - 627 011



*A. Maleela*  
Coordinator - IQAC  
Sri Sarada College for Women (Autonomous),  
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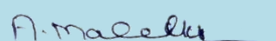
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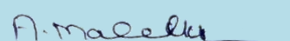


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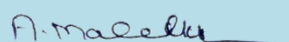


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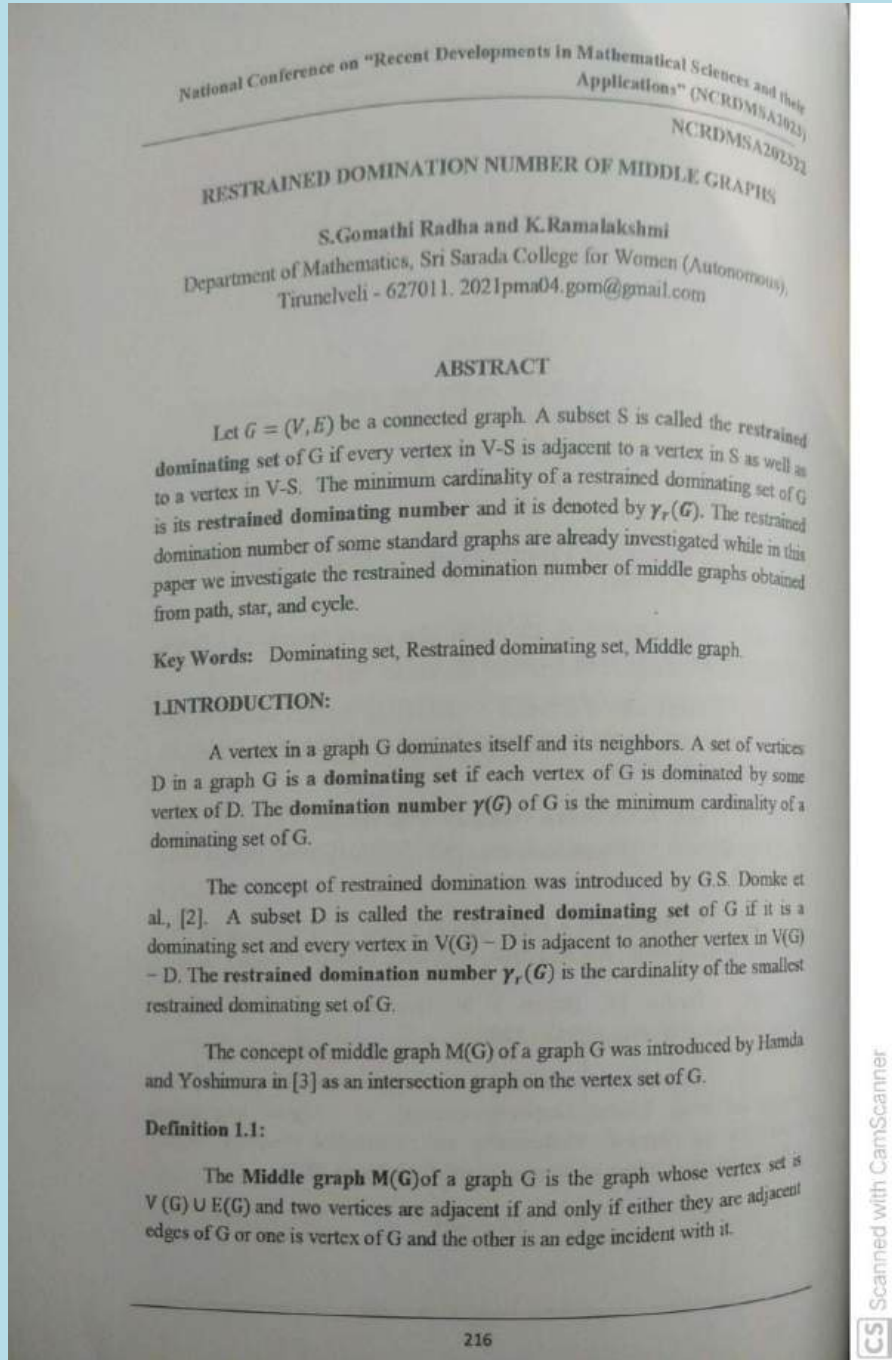
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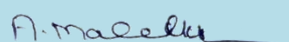


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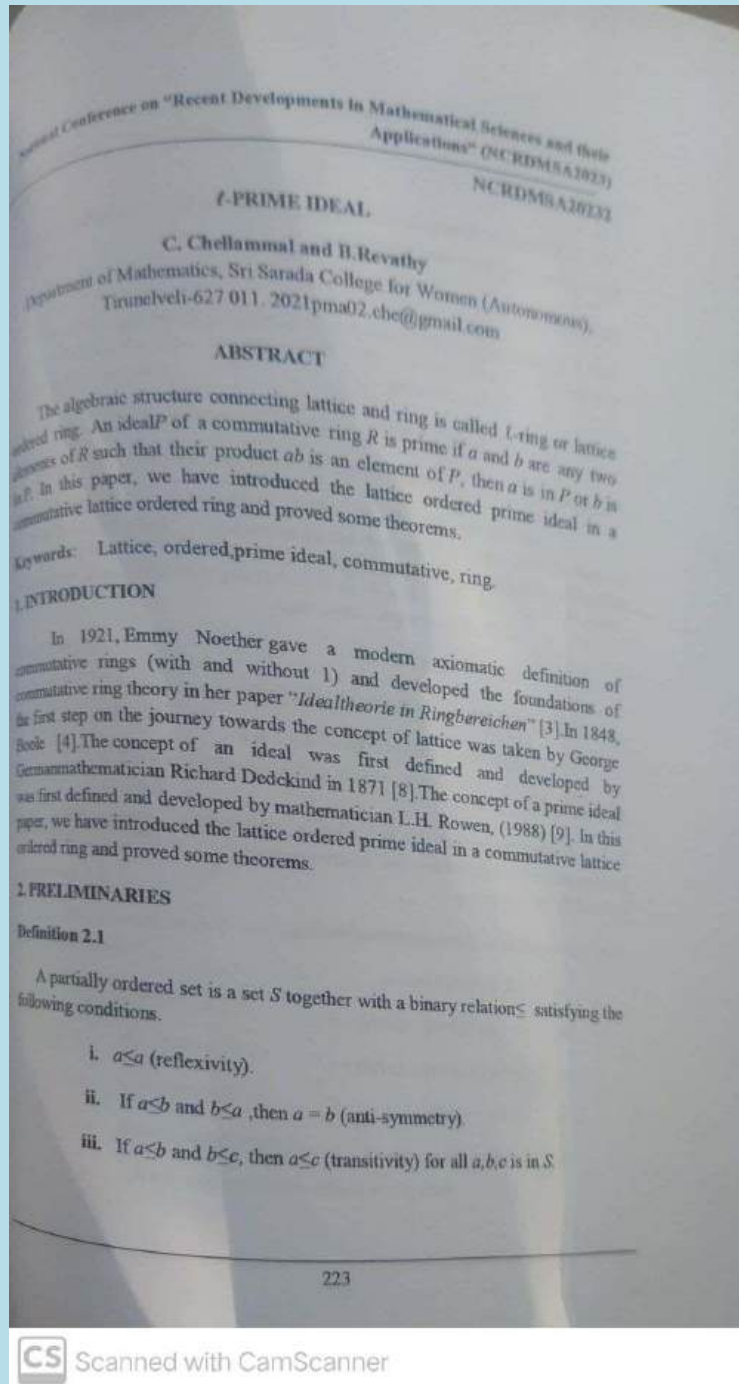
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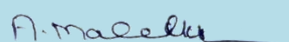
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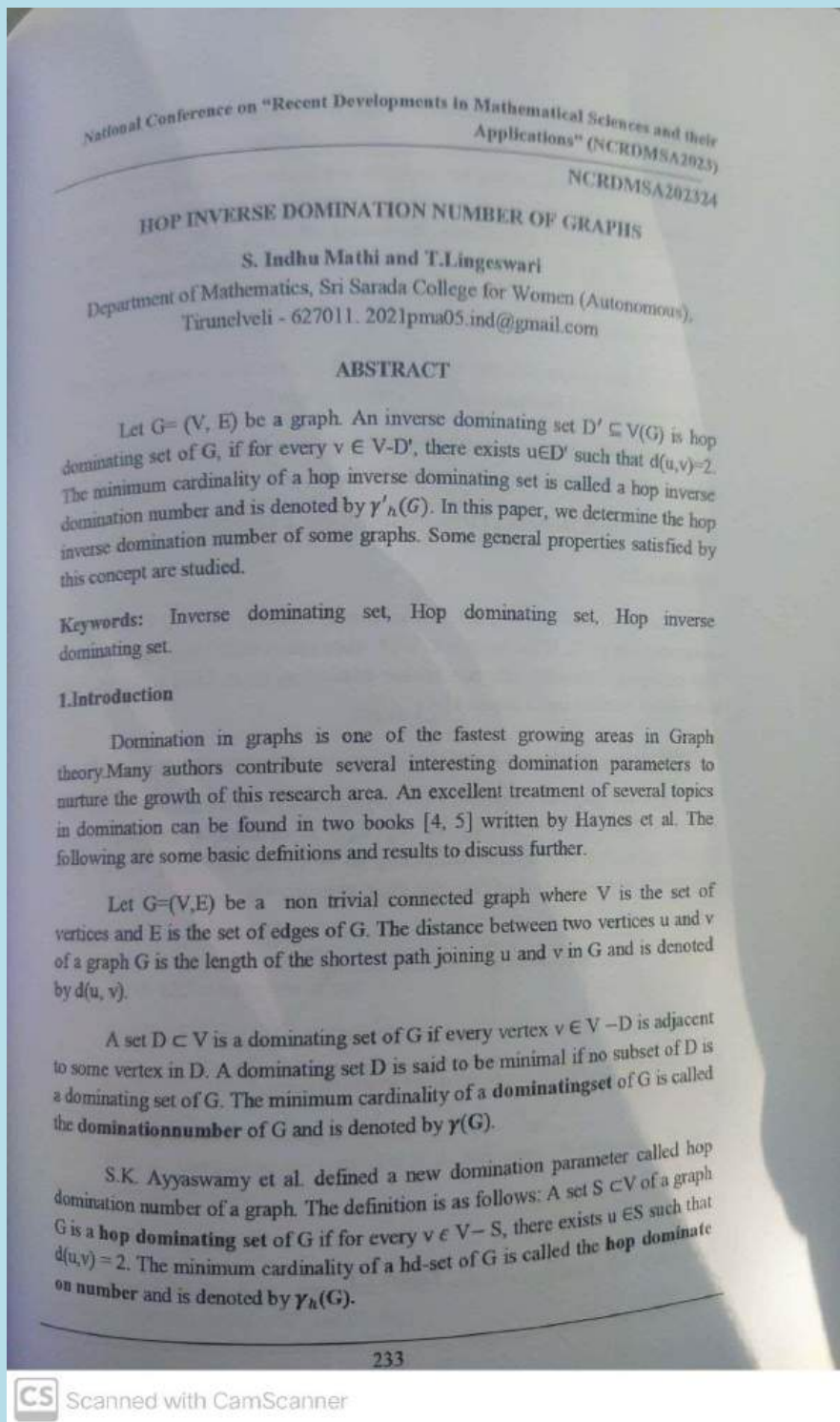
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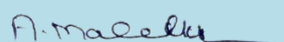


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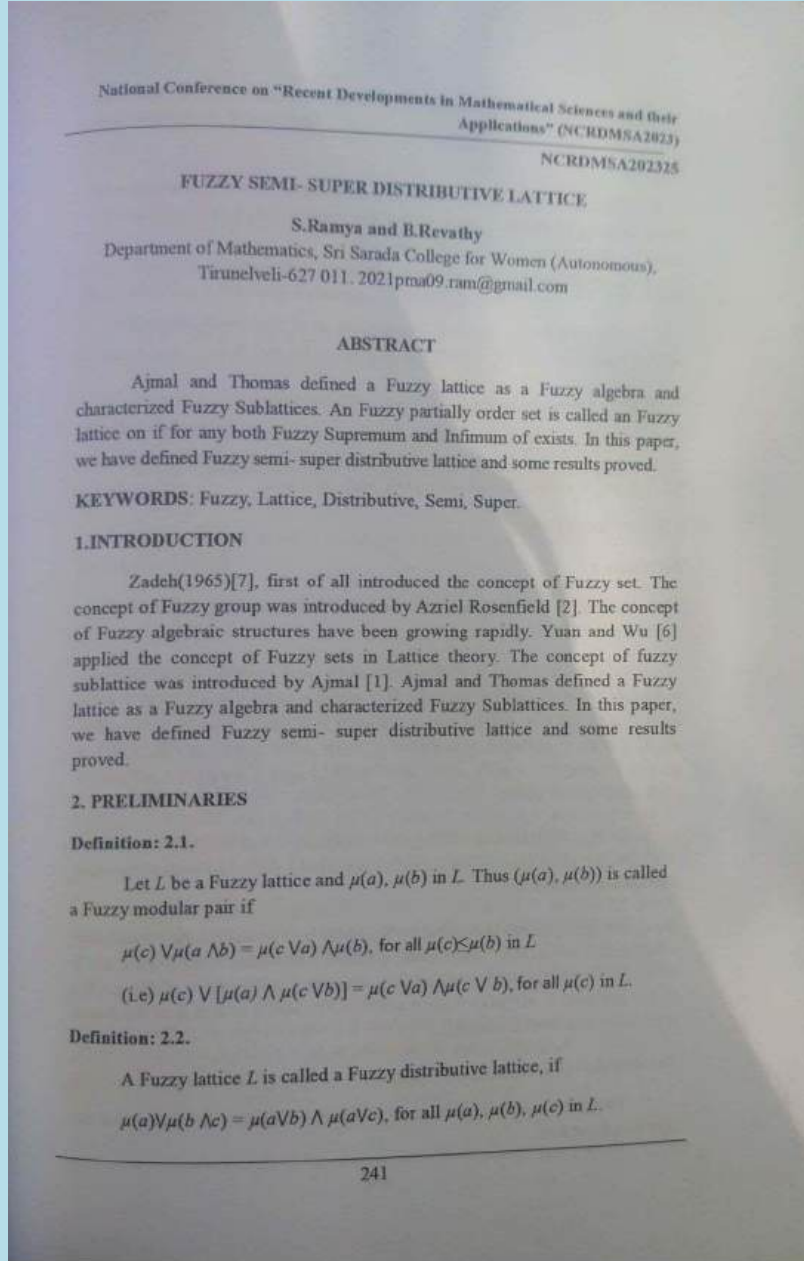
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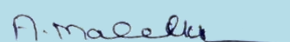
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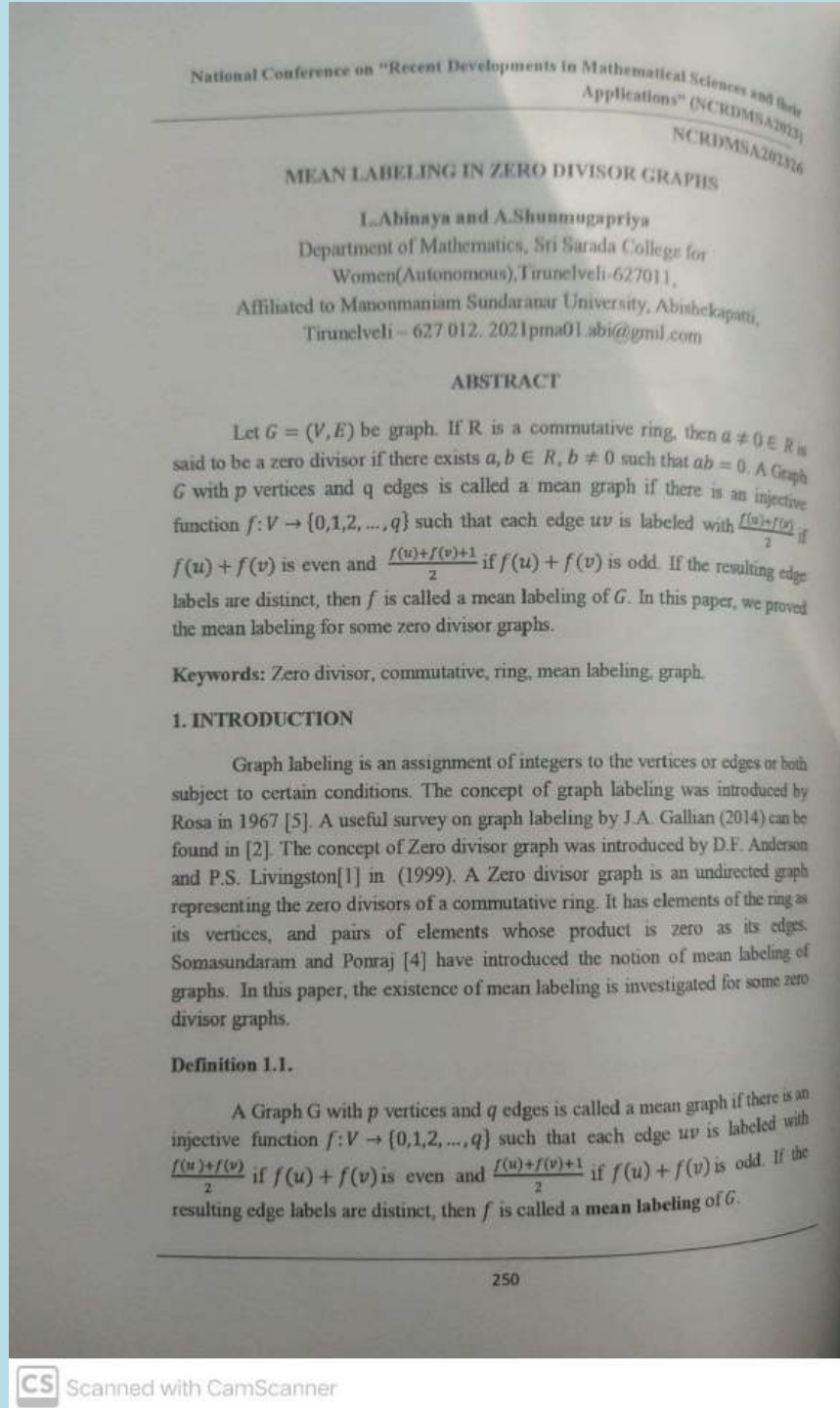
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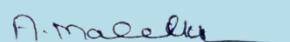
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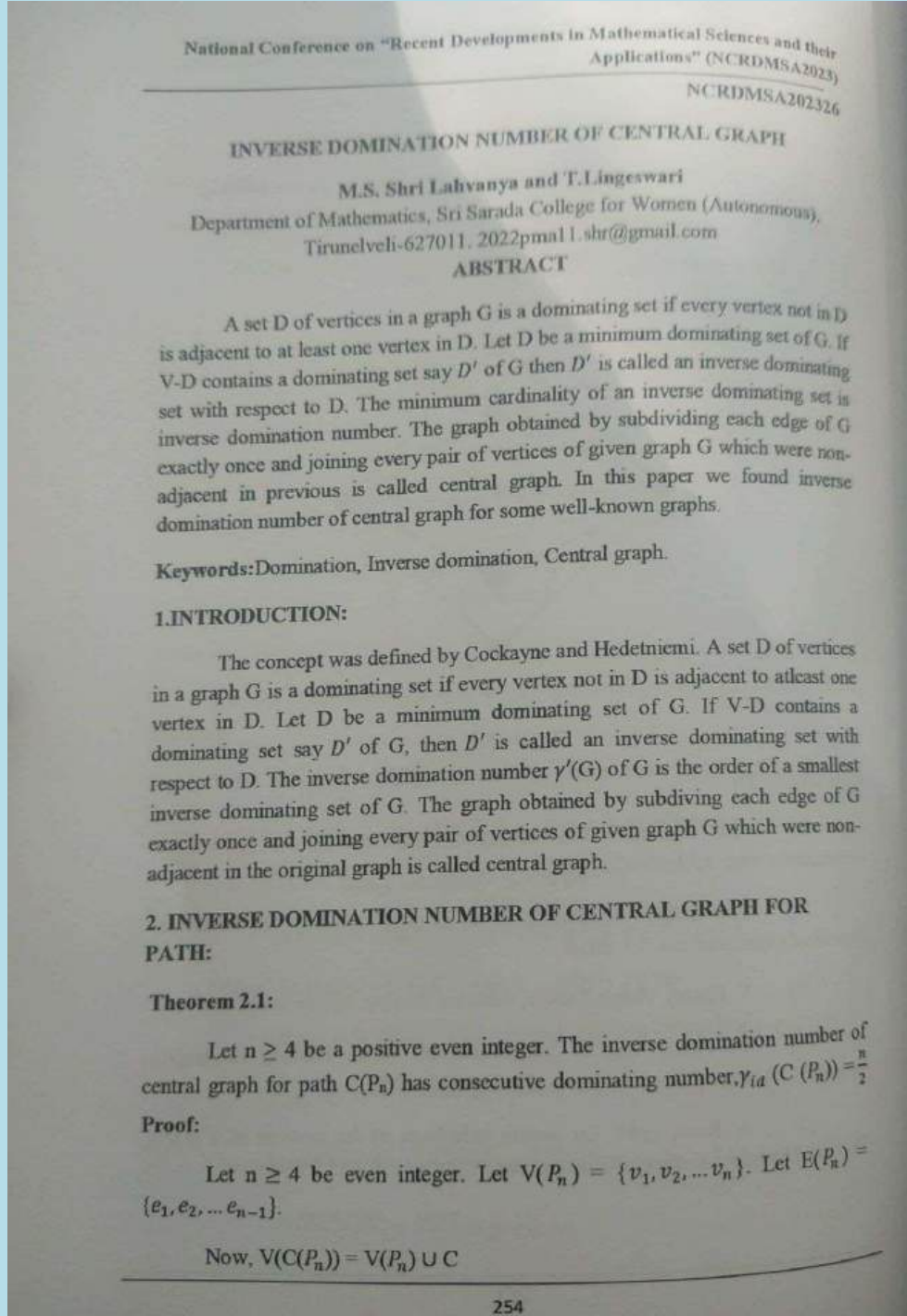
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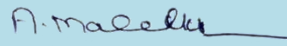
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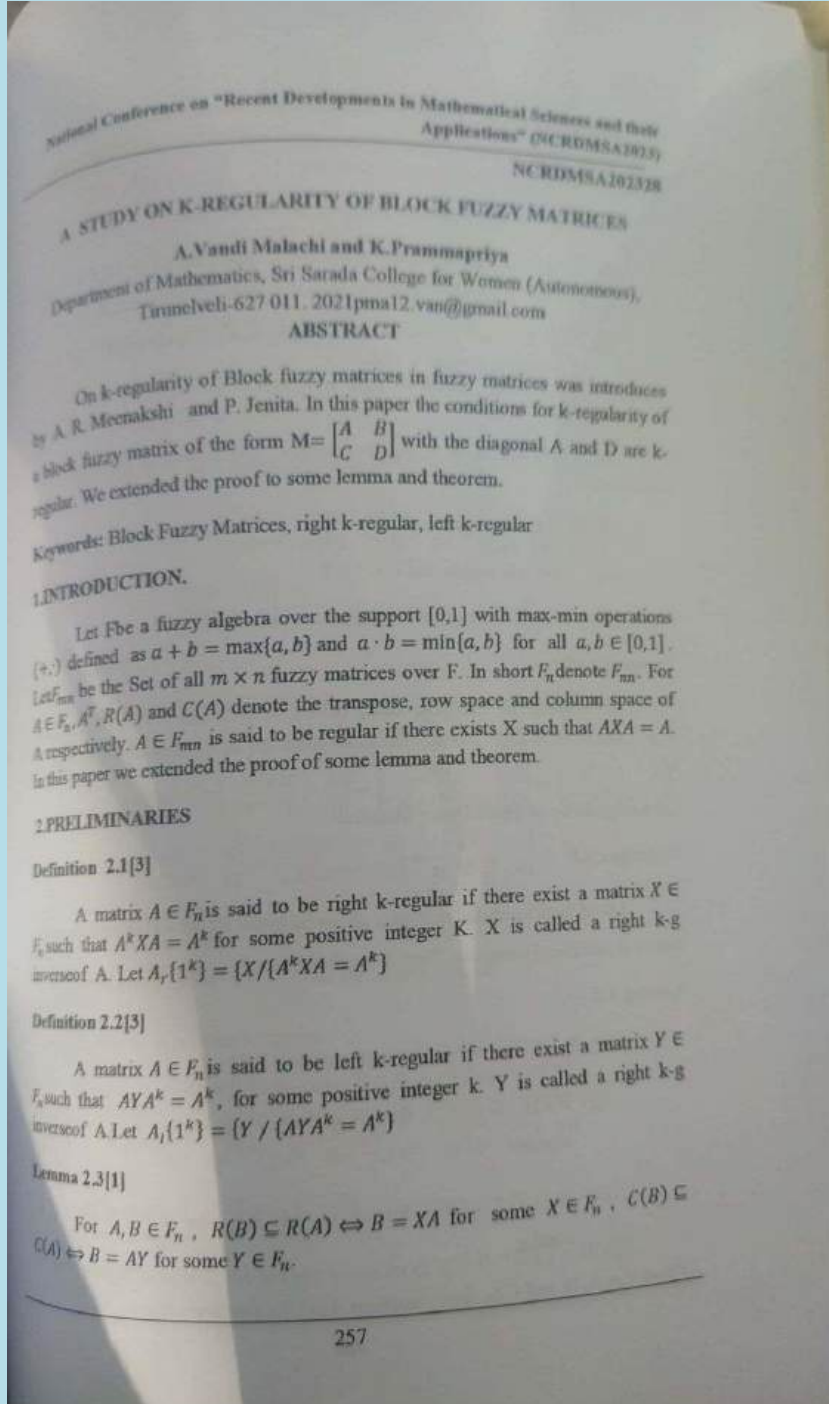
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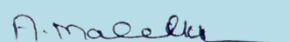
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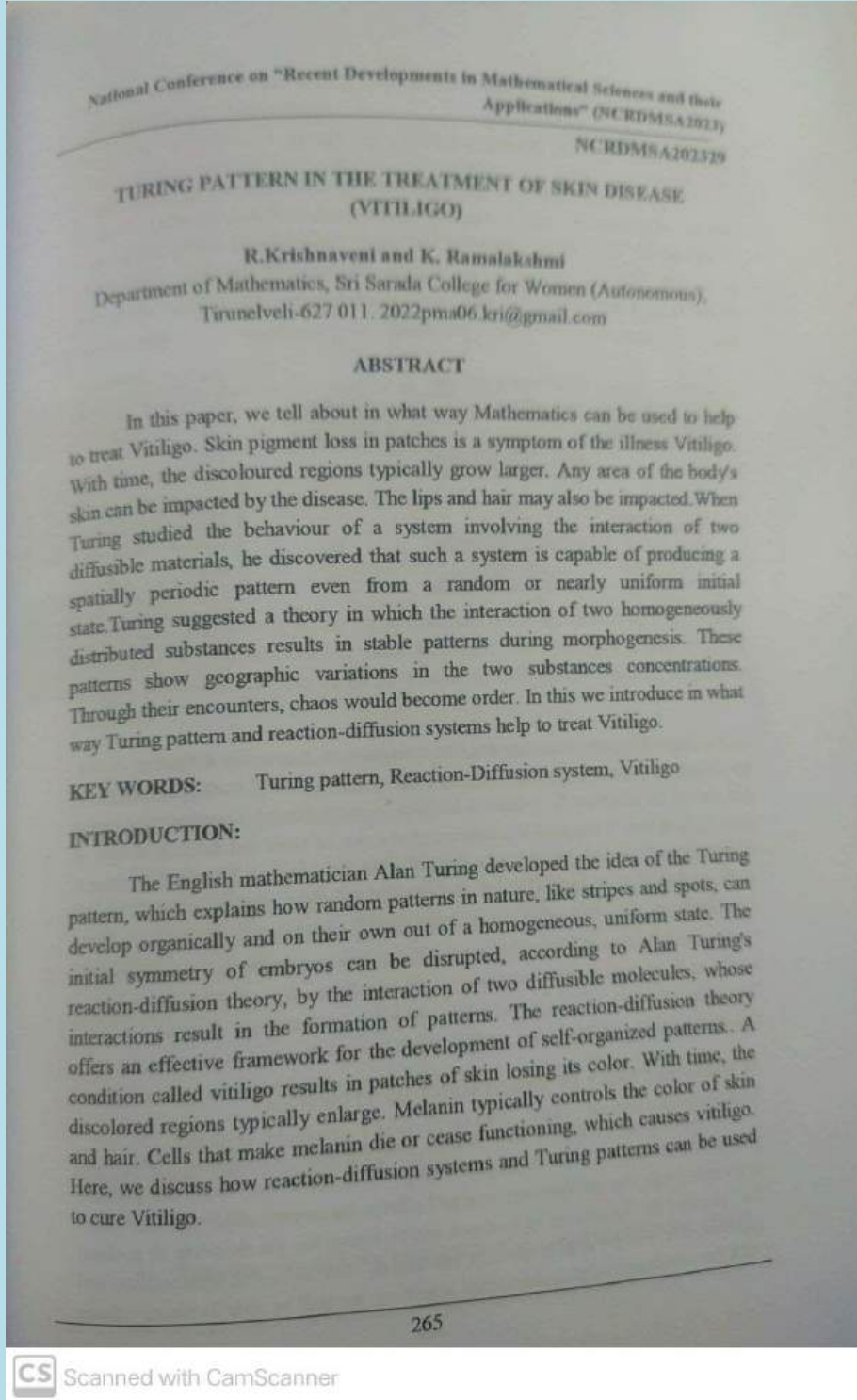
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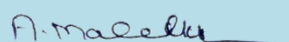


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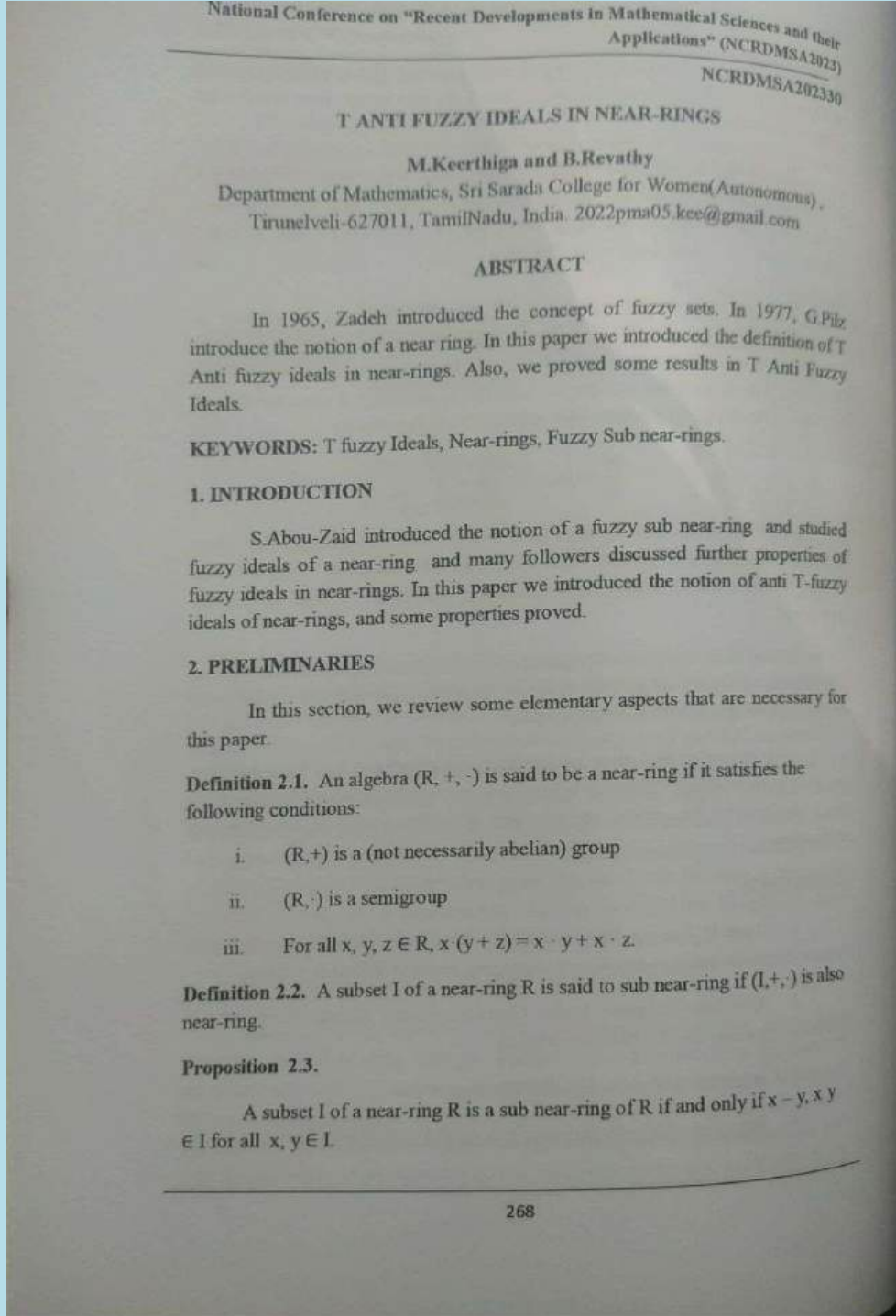
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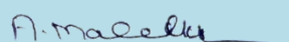
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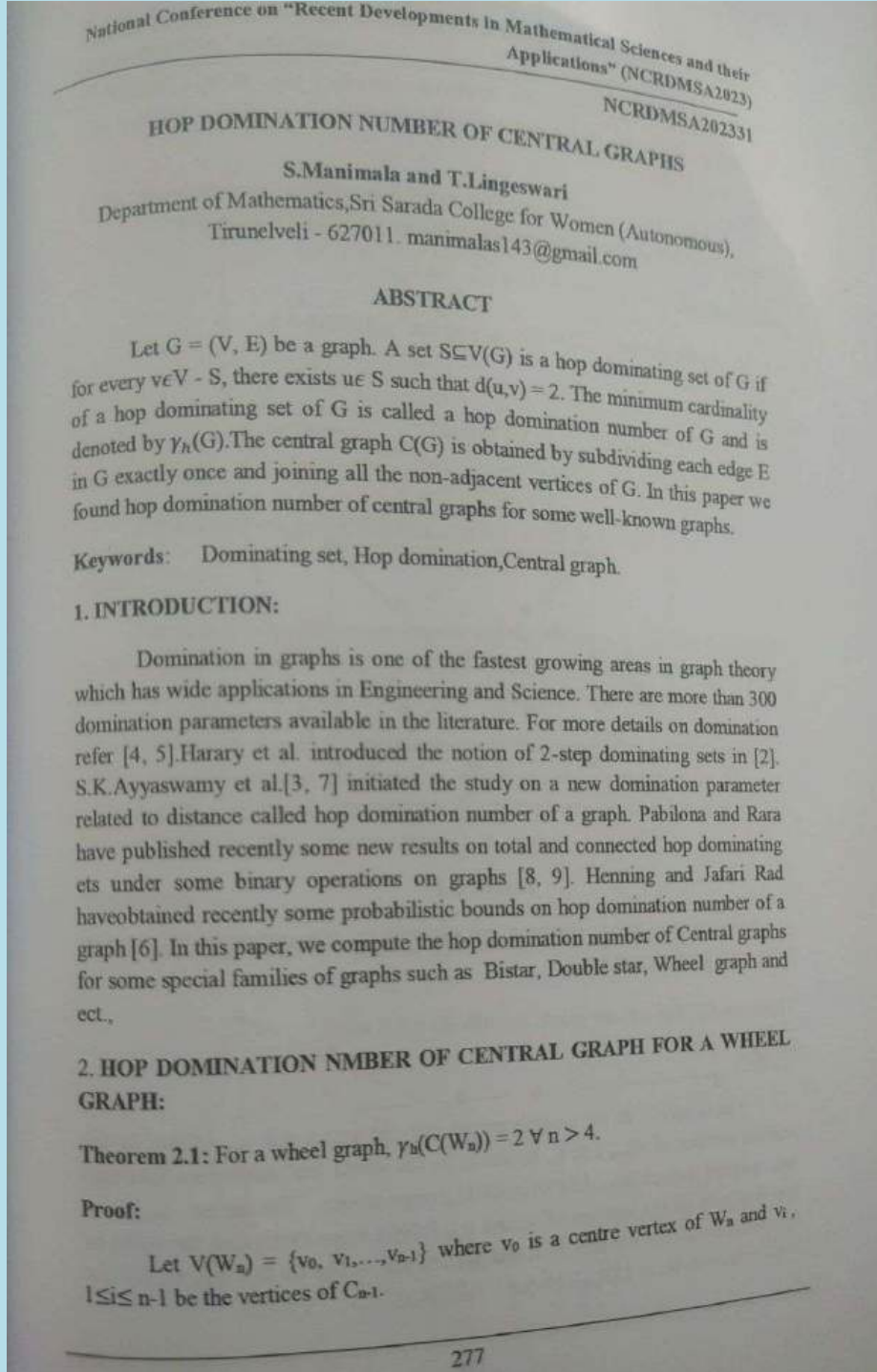
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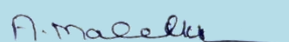
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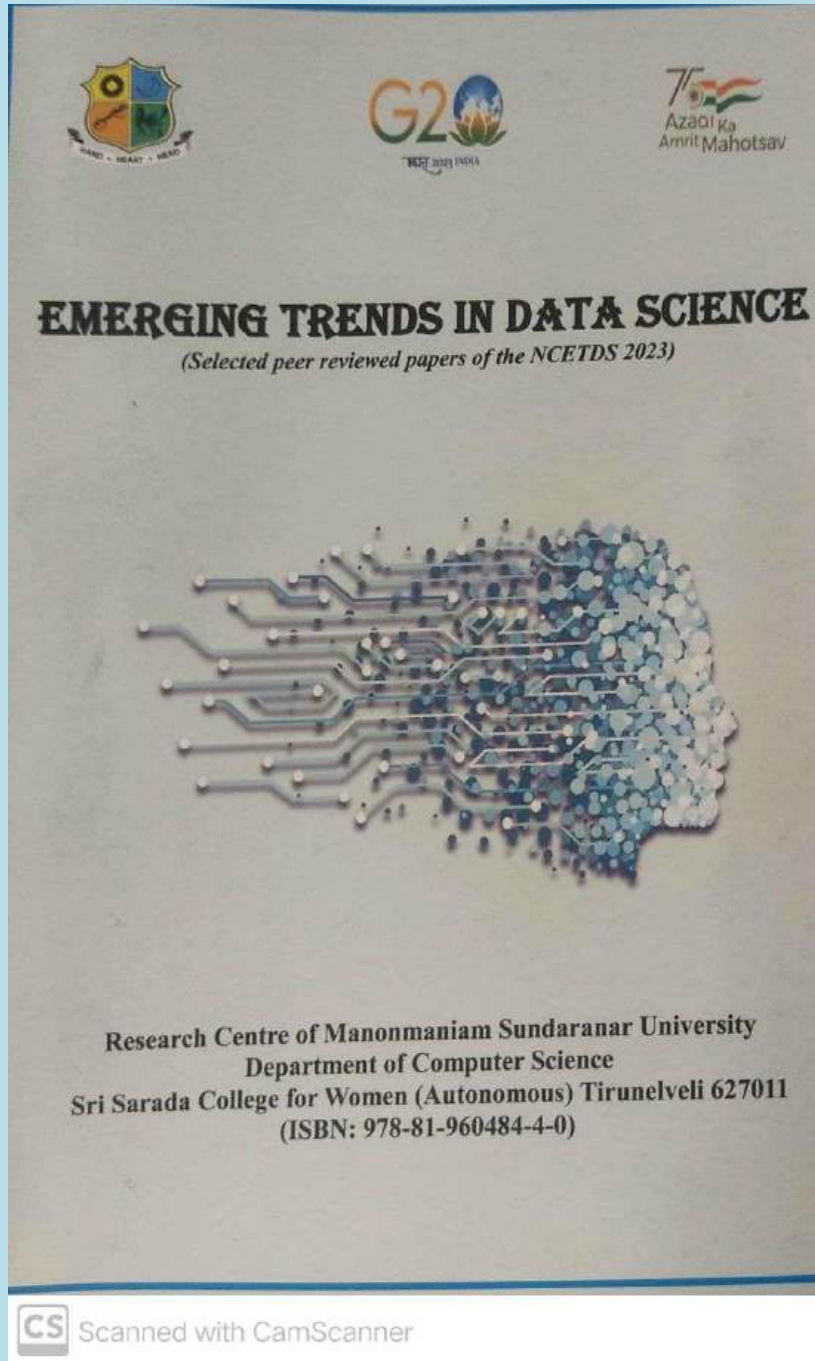
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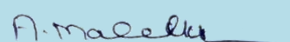


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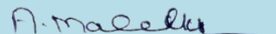
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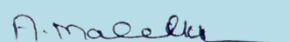
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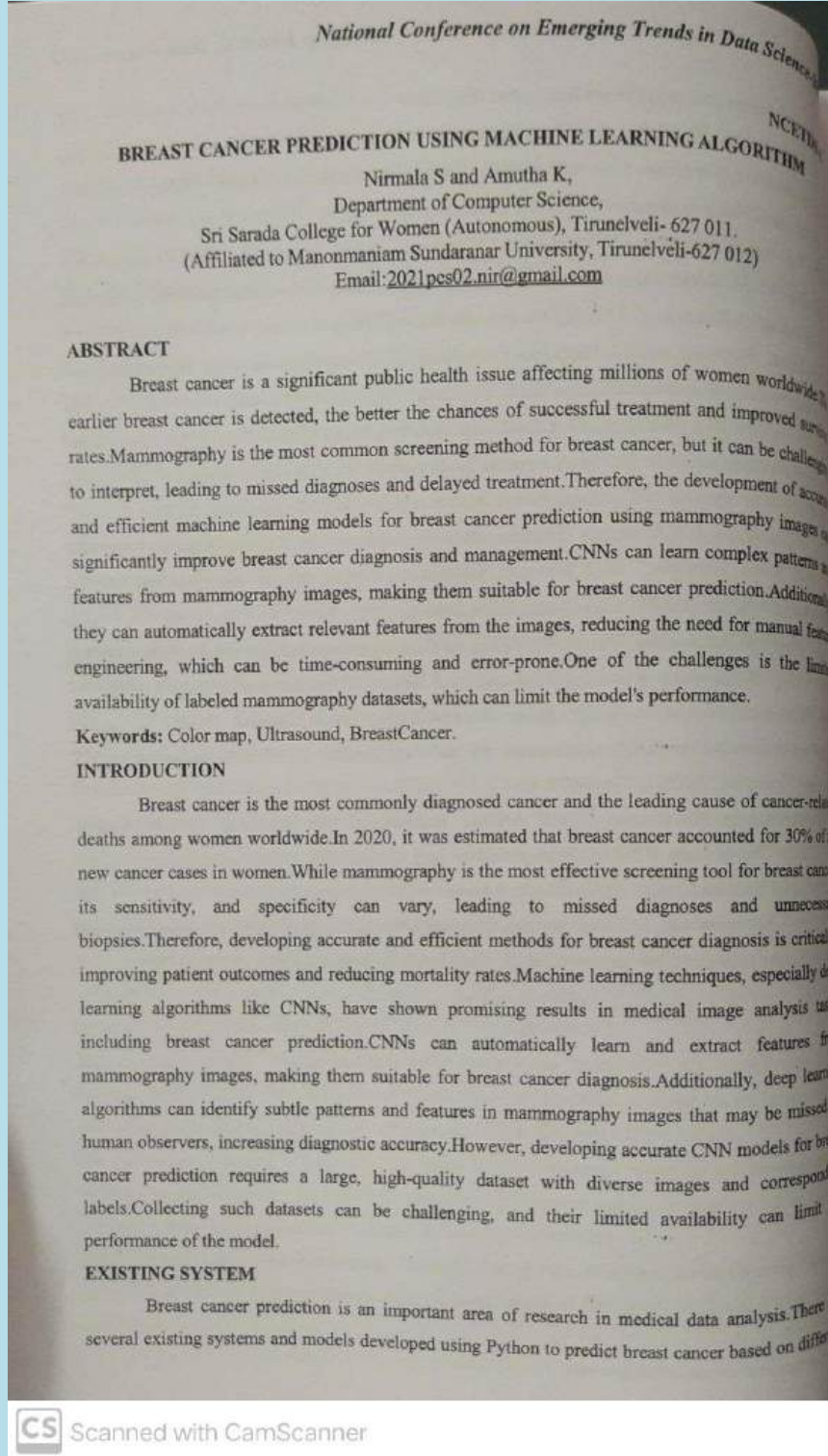
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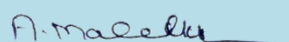


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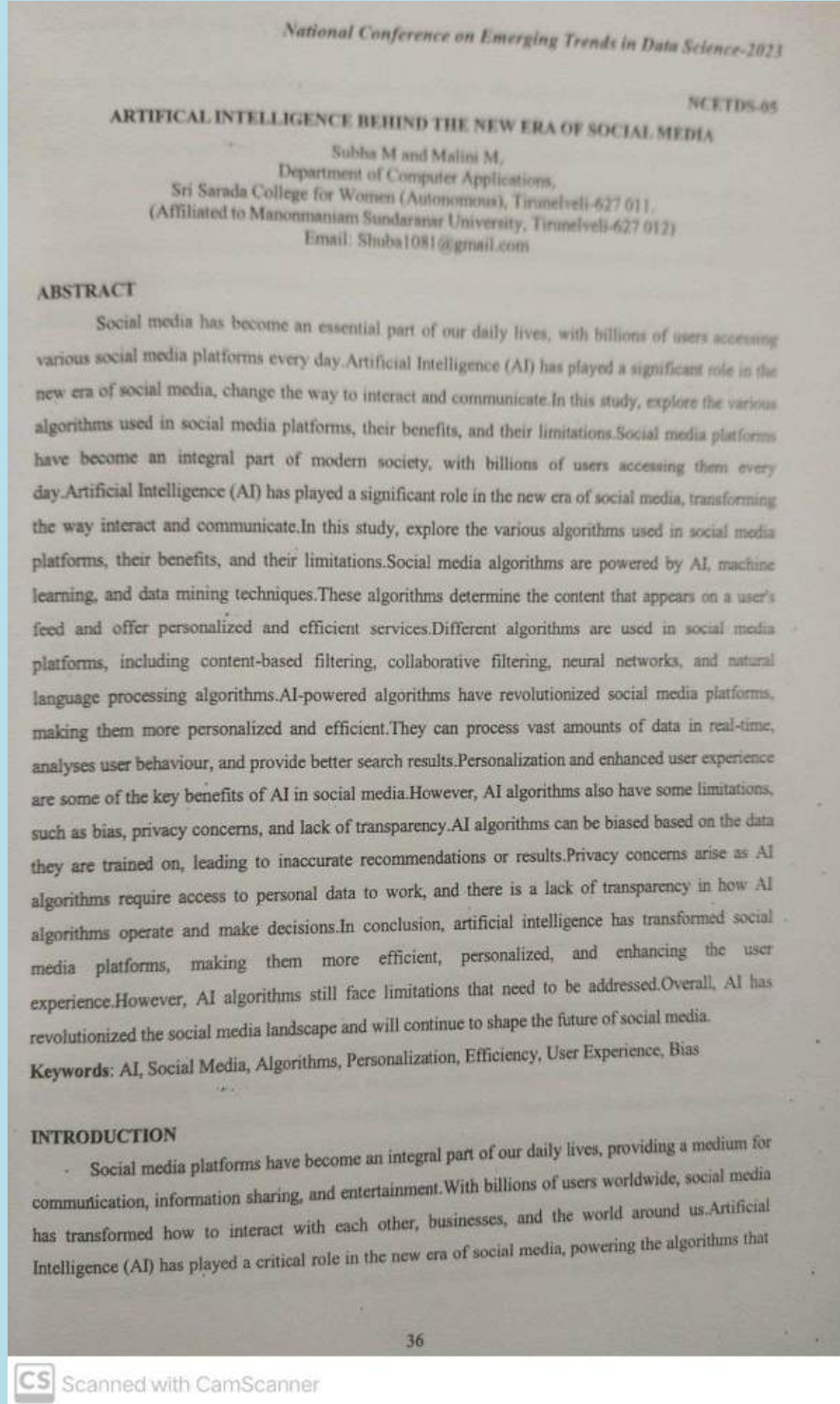
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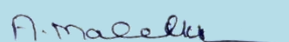
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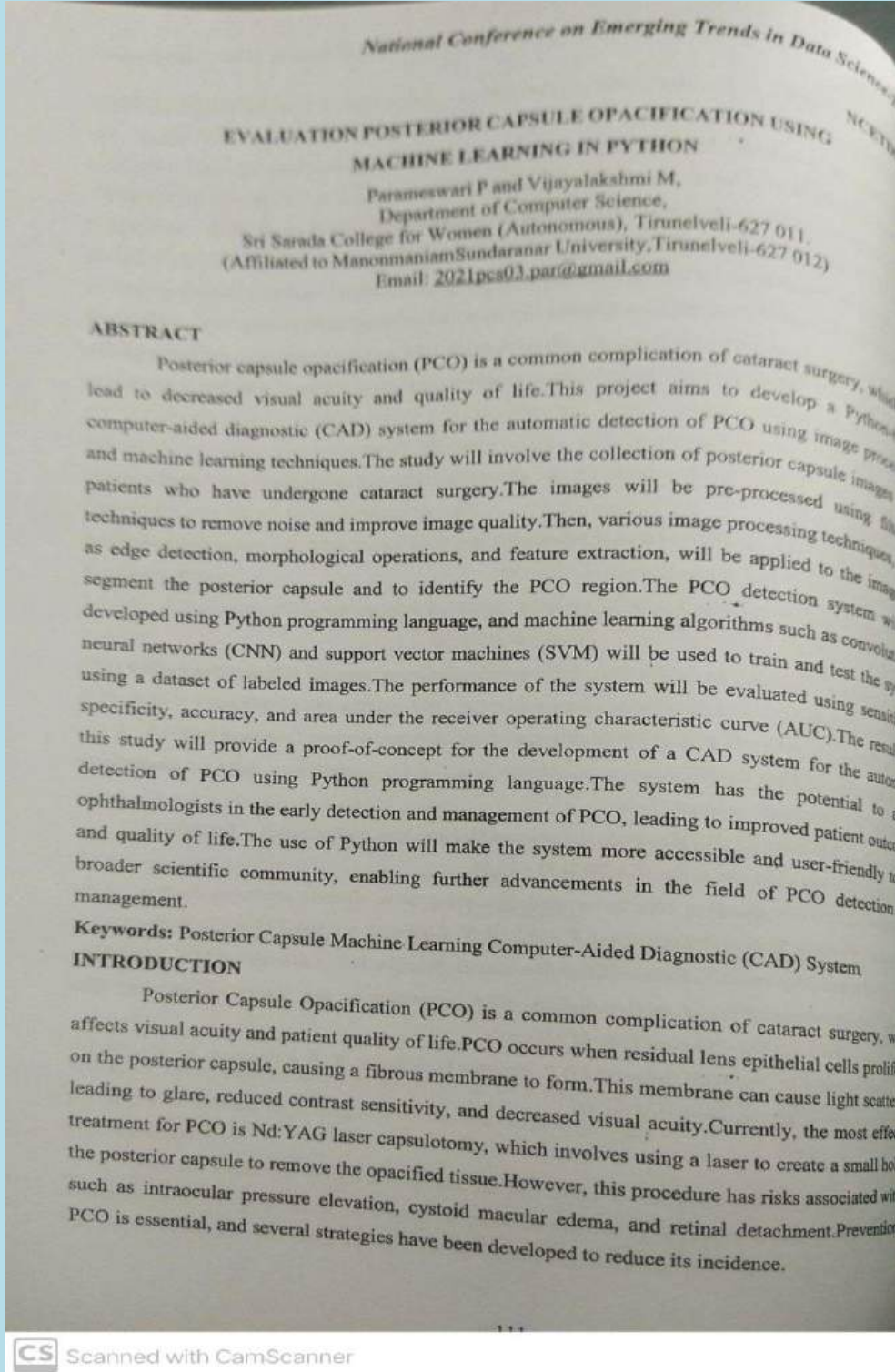
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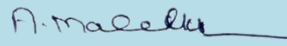
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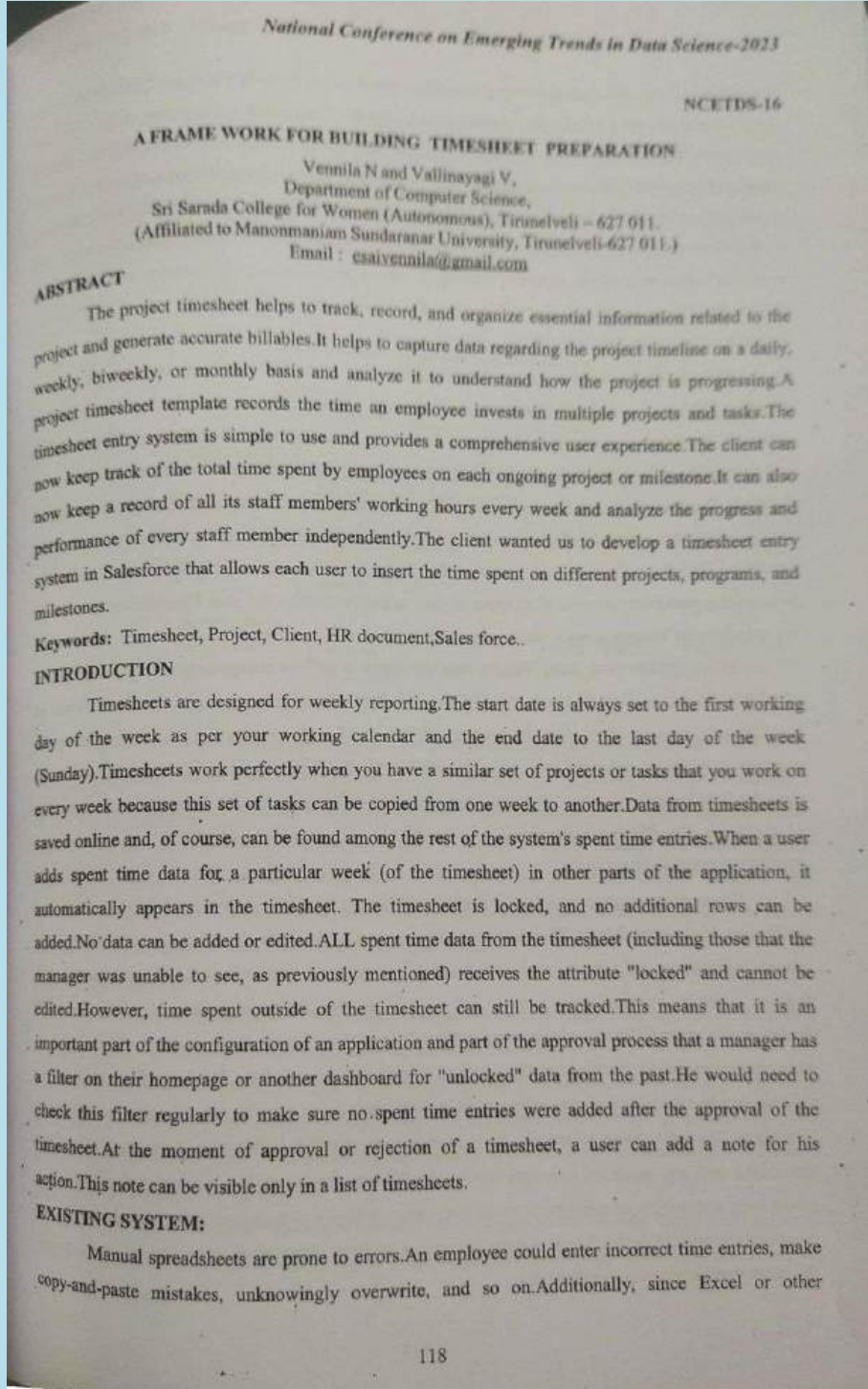
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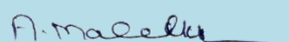
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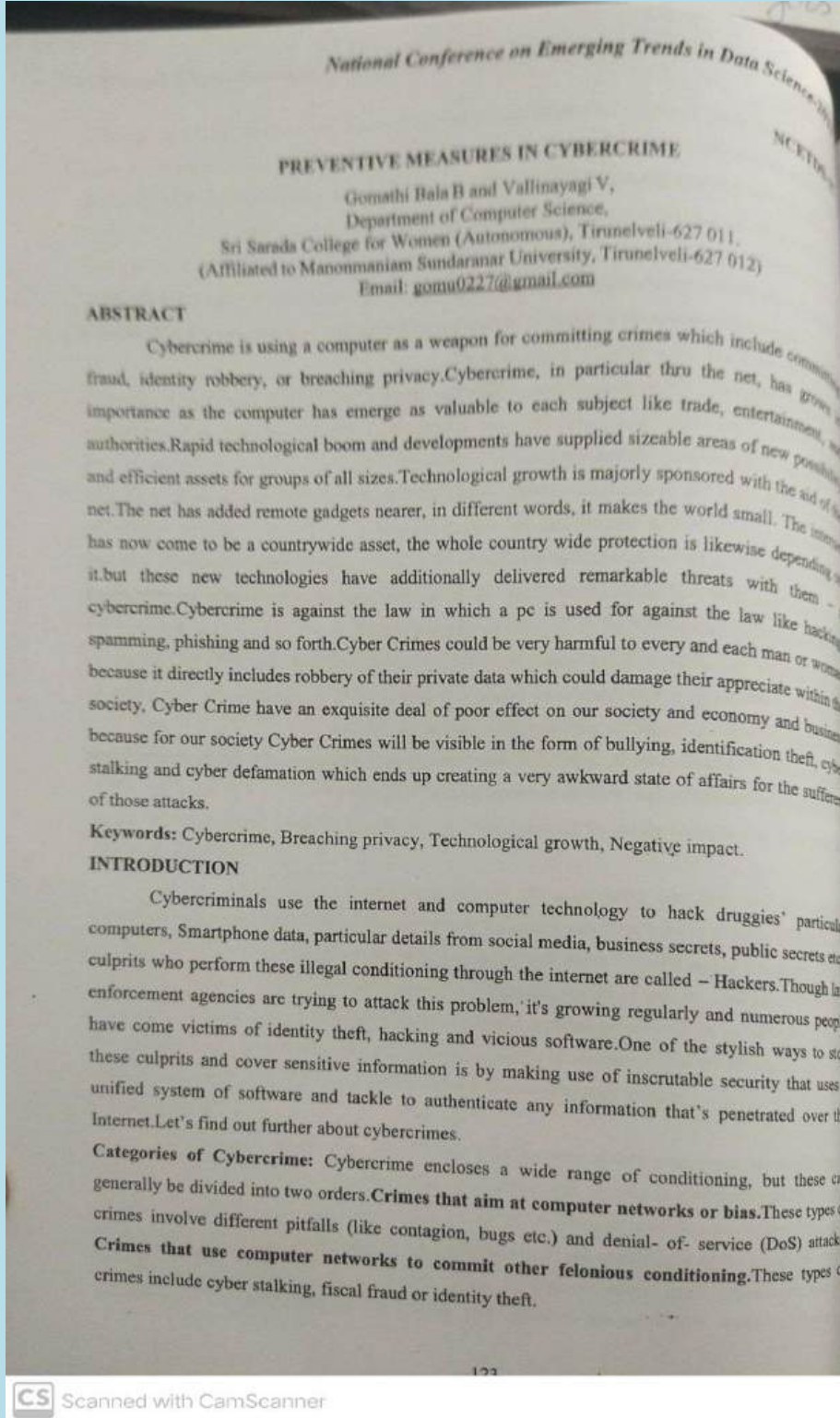
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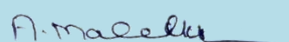
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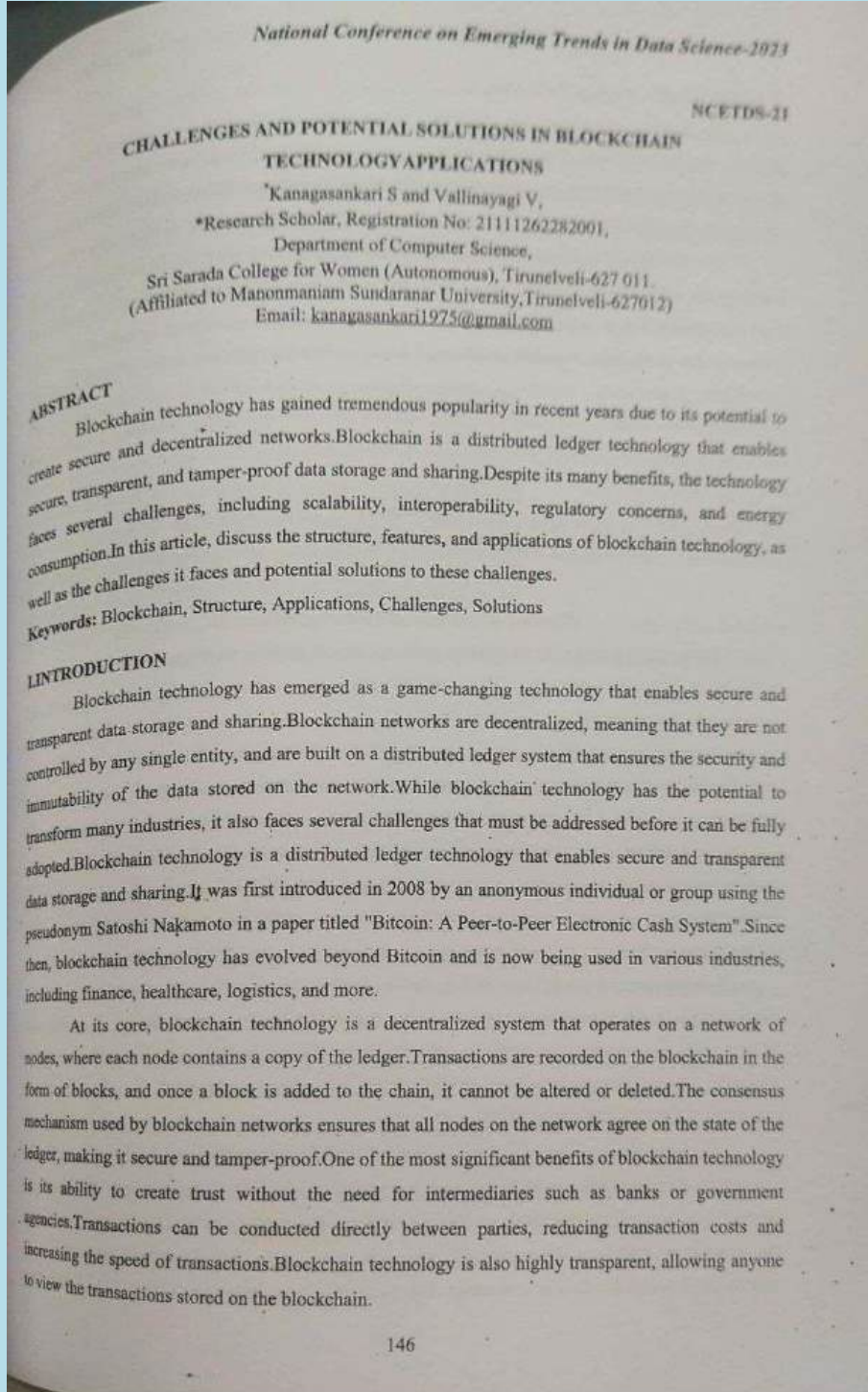
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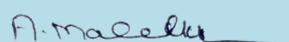
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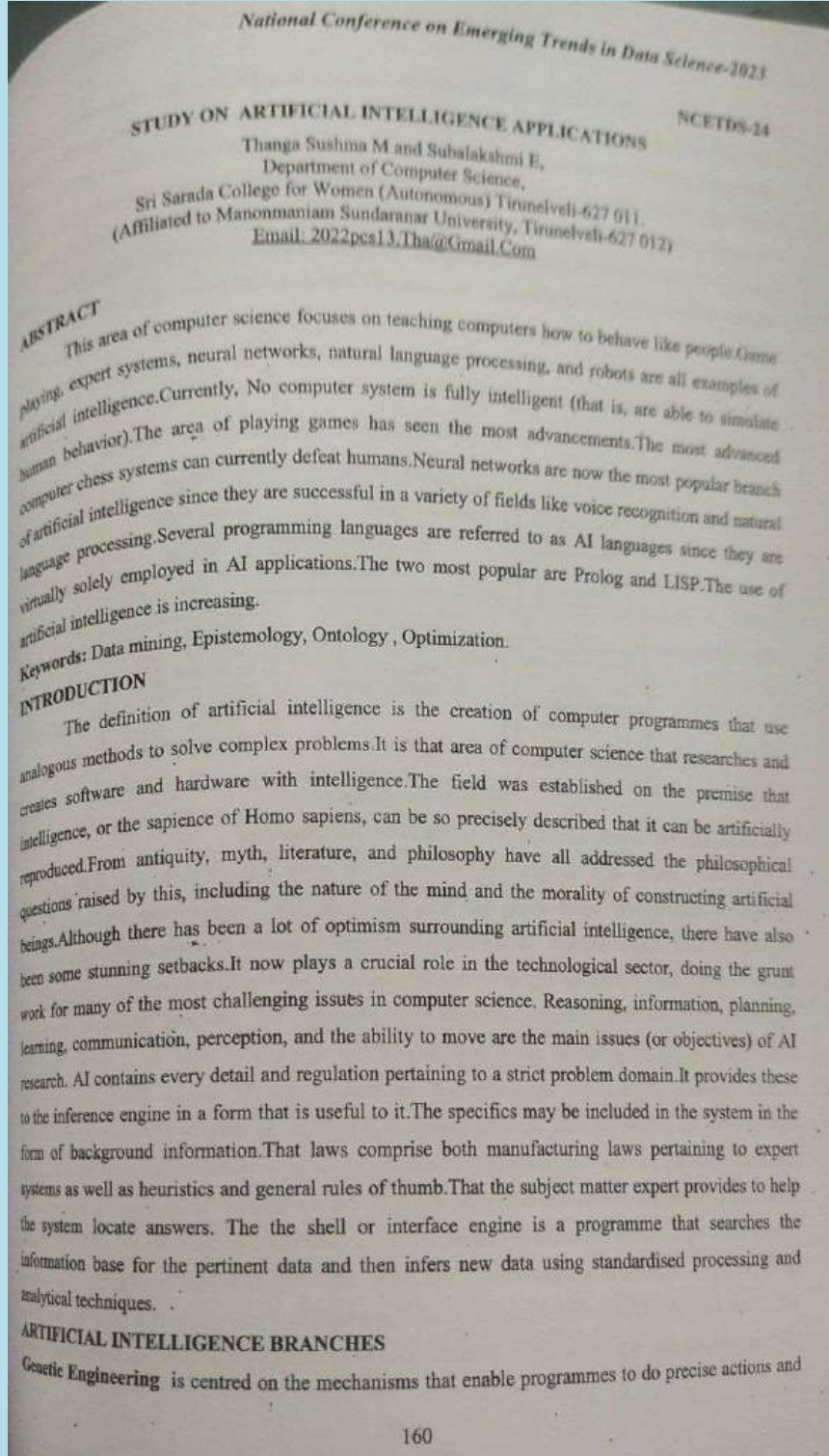
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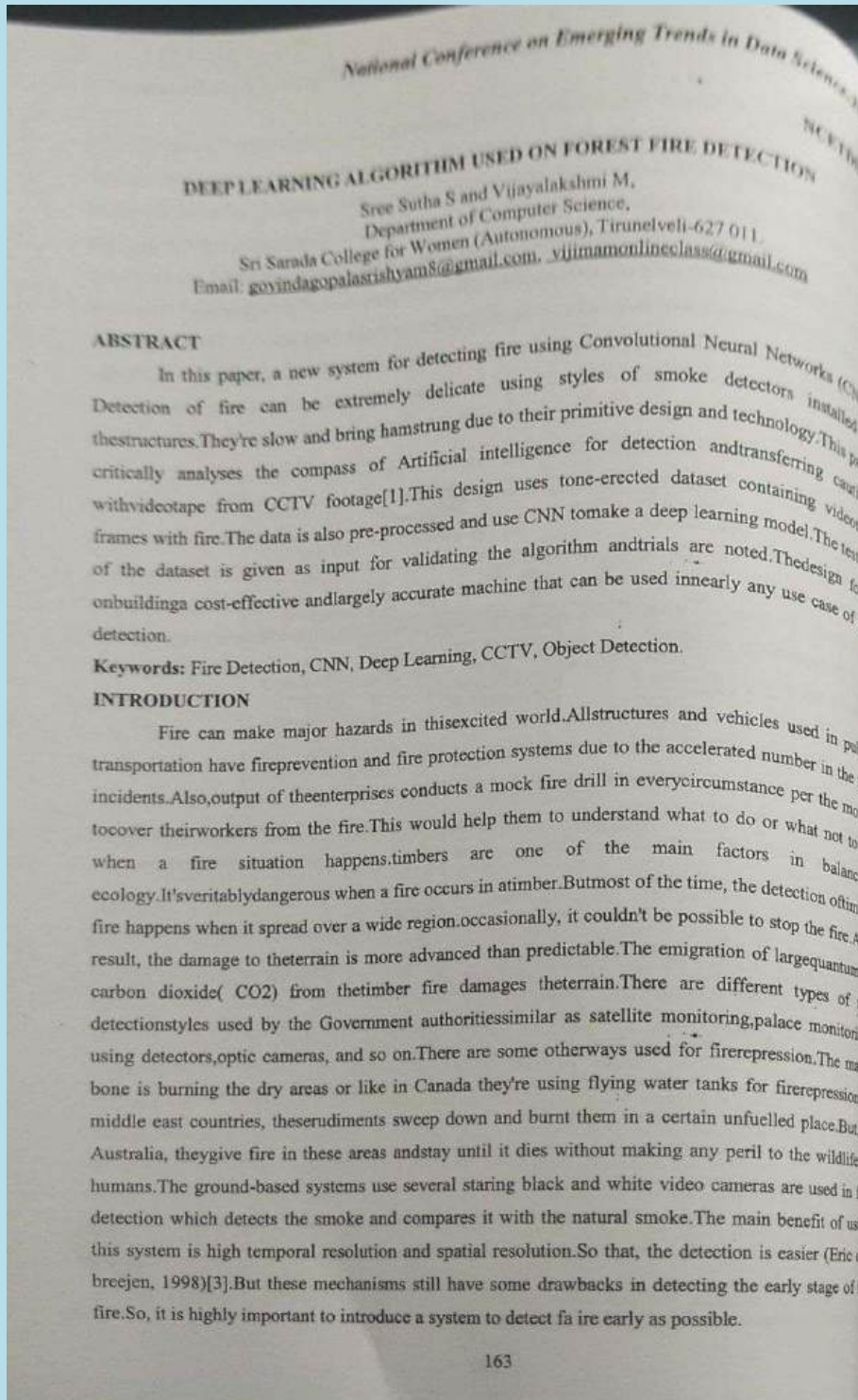
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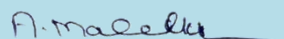
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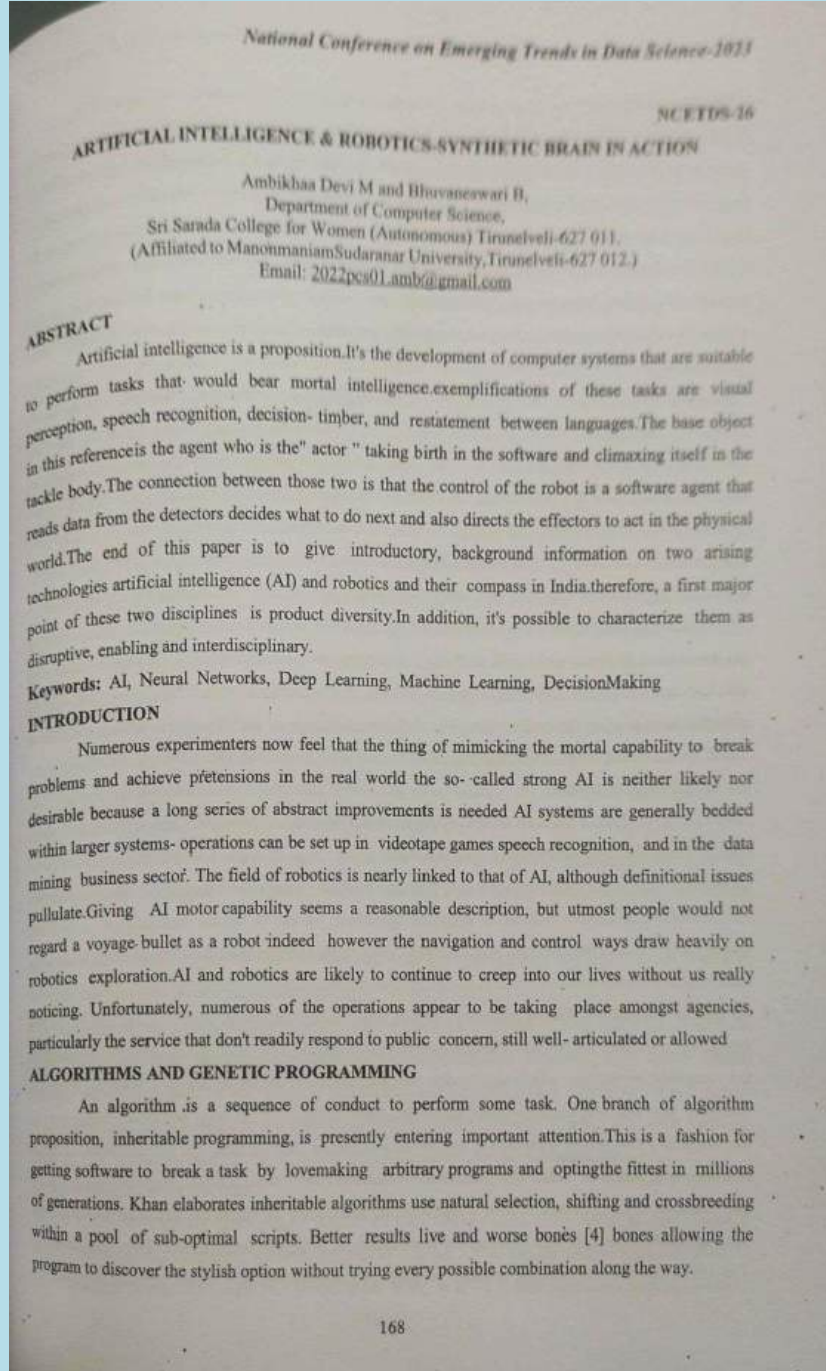
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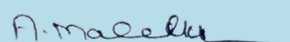
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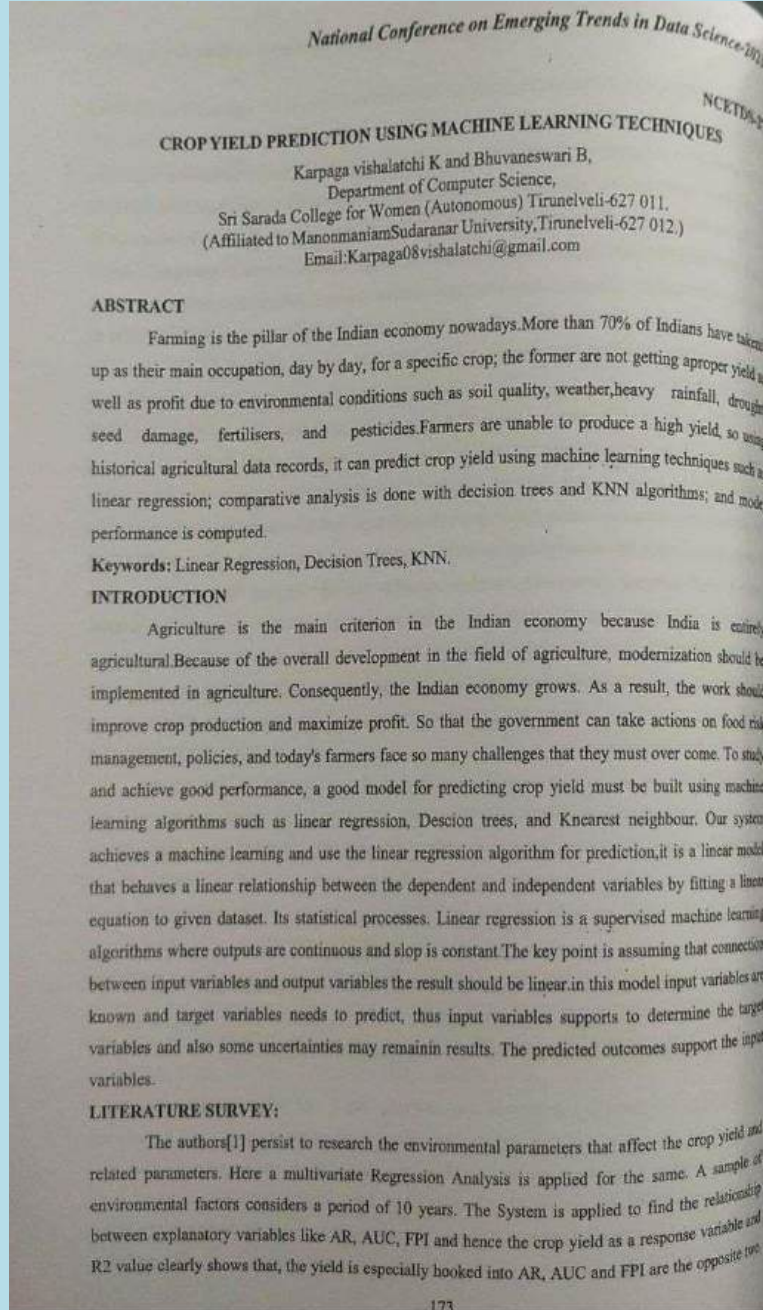
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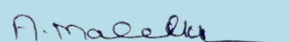


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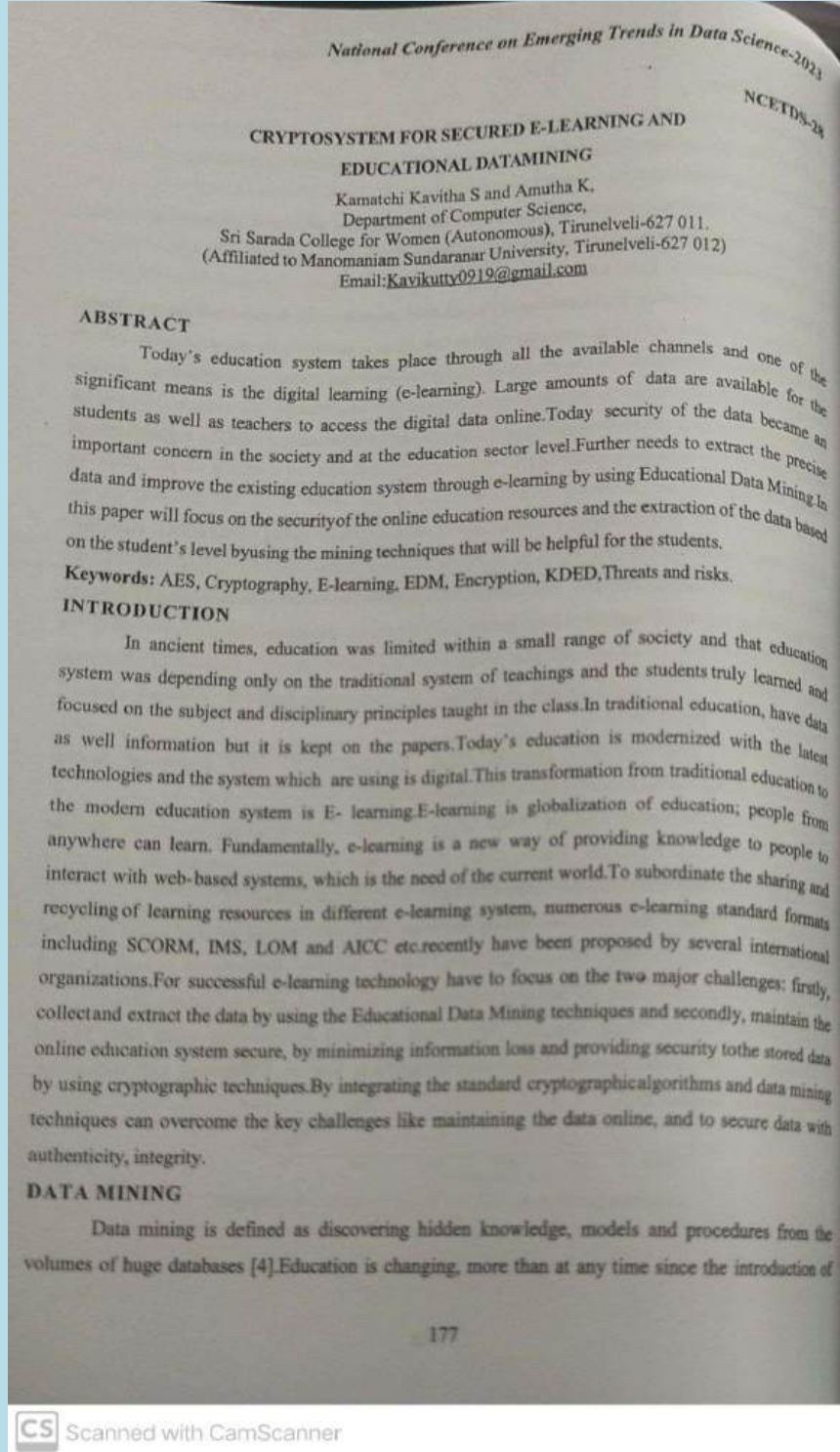
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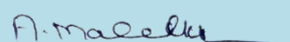


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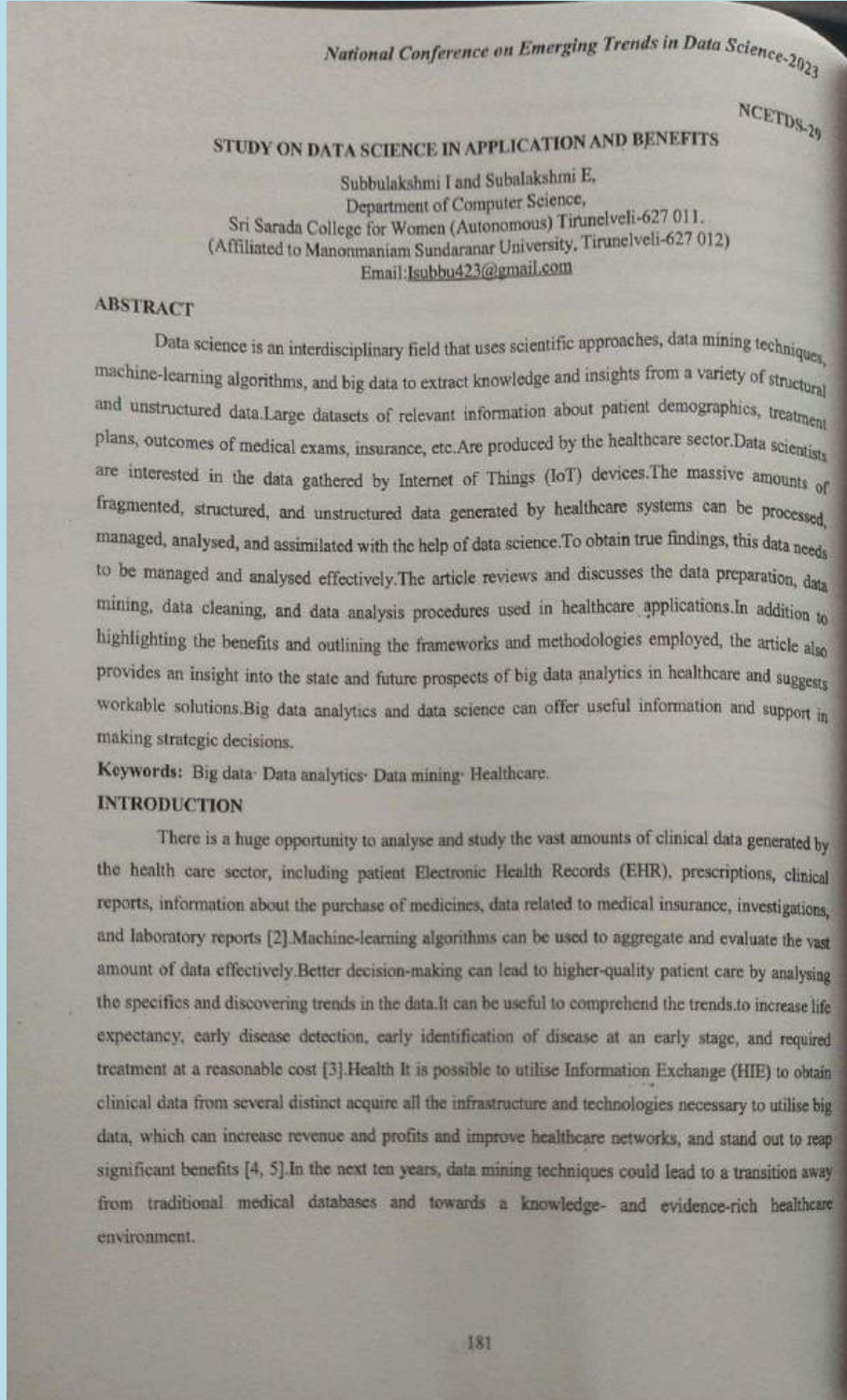
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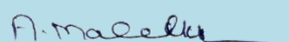
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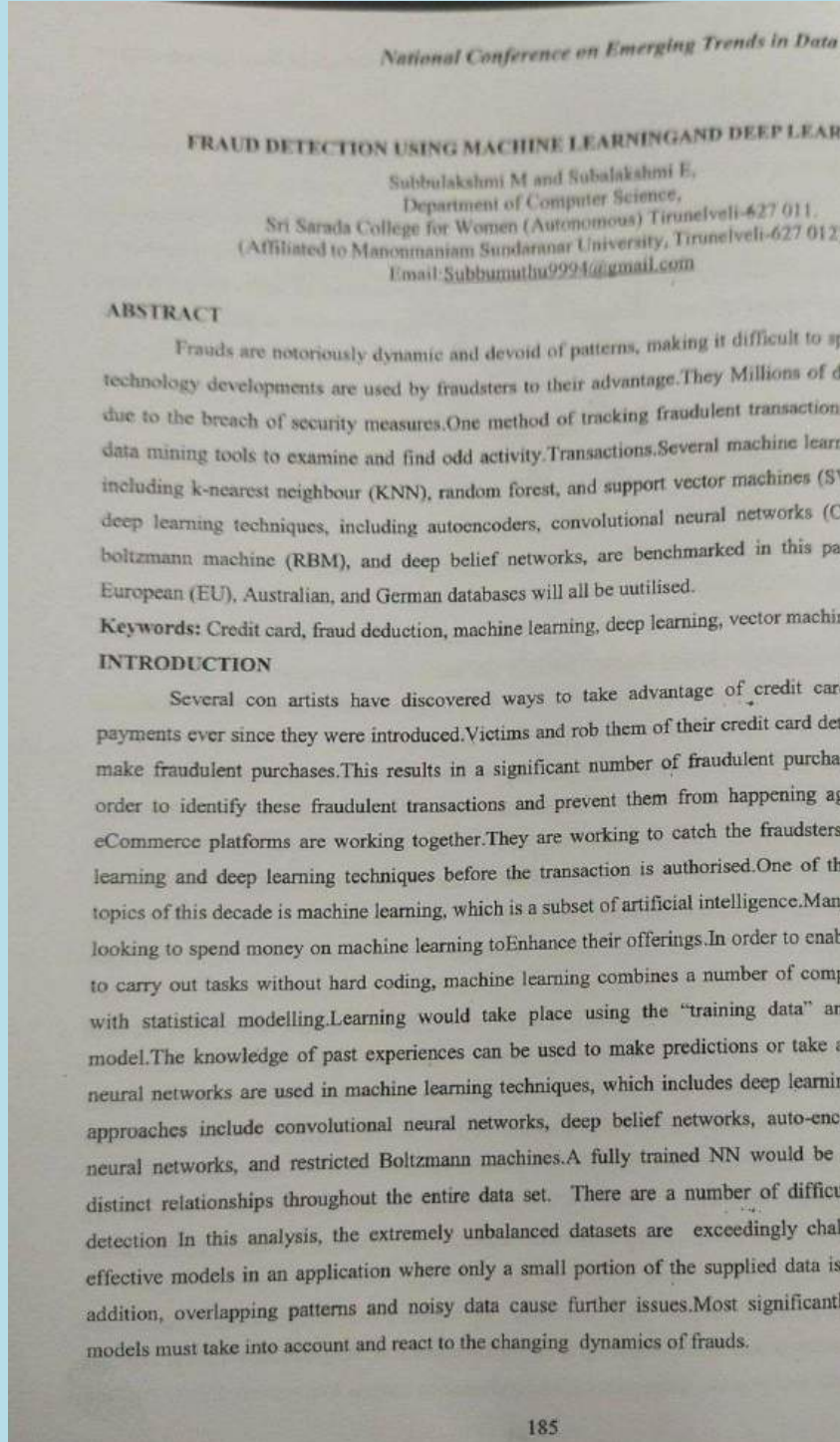
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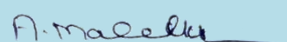


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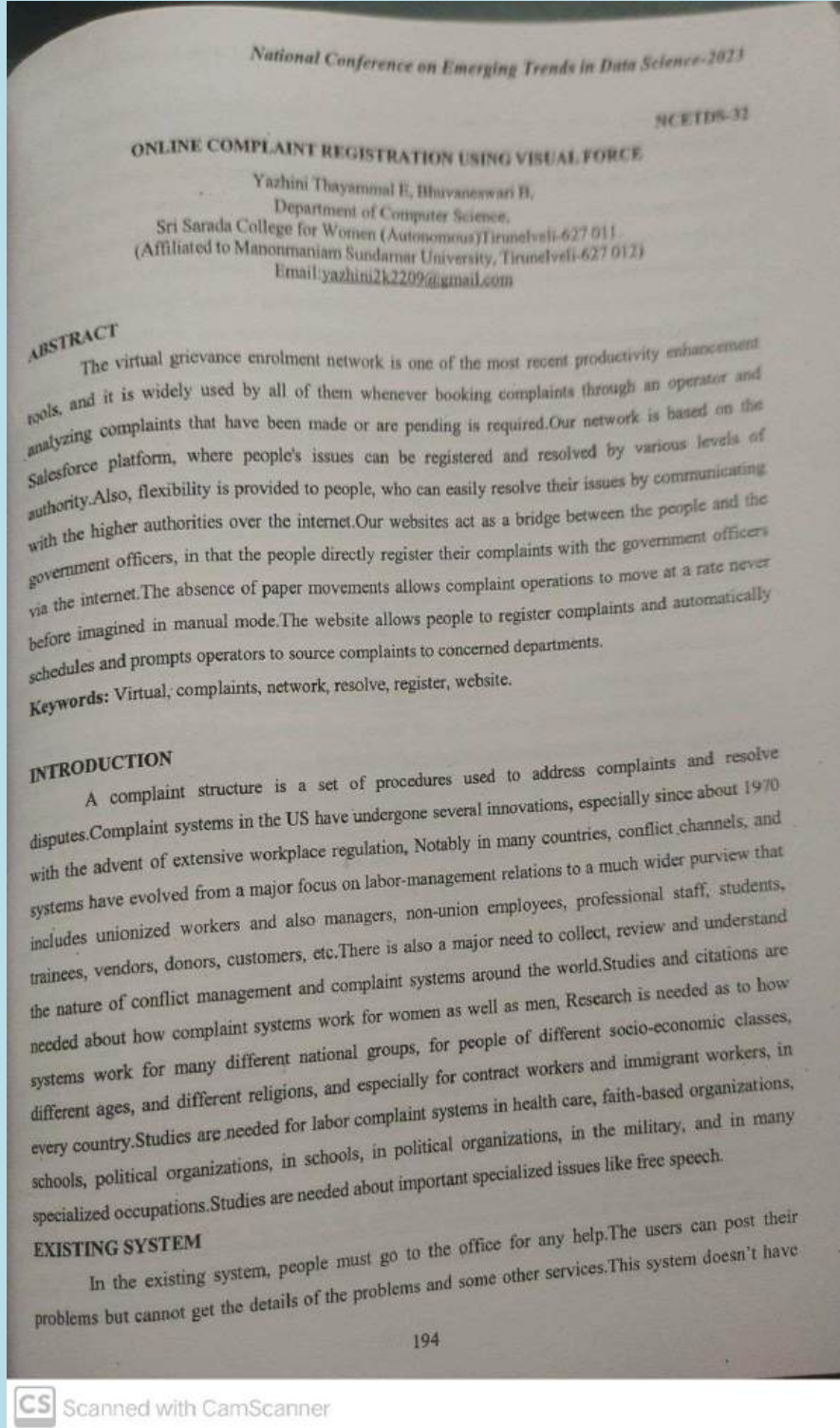
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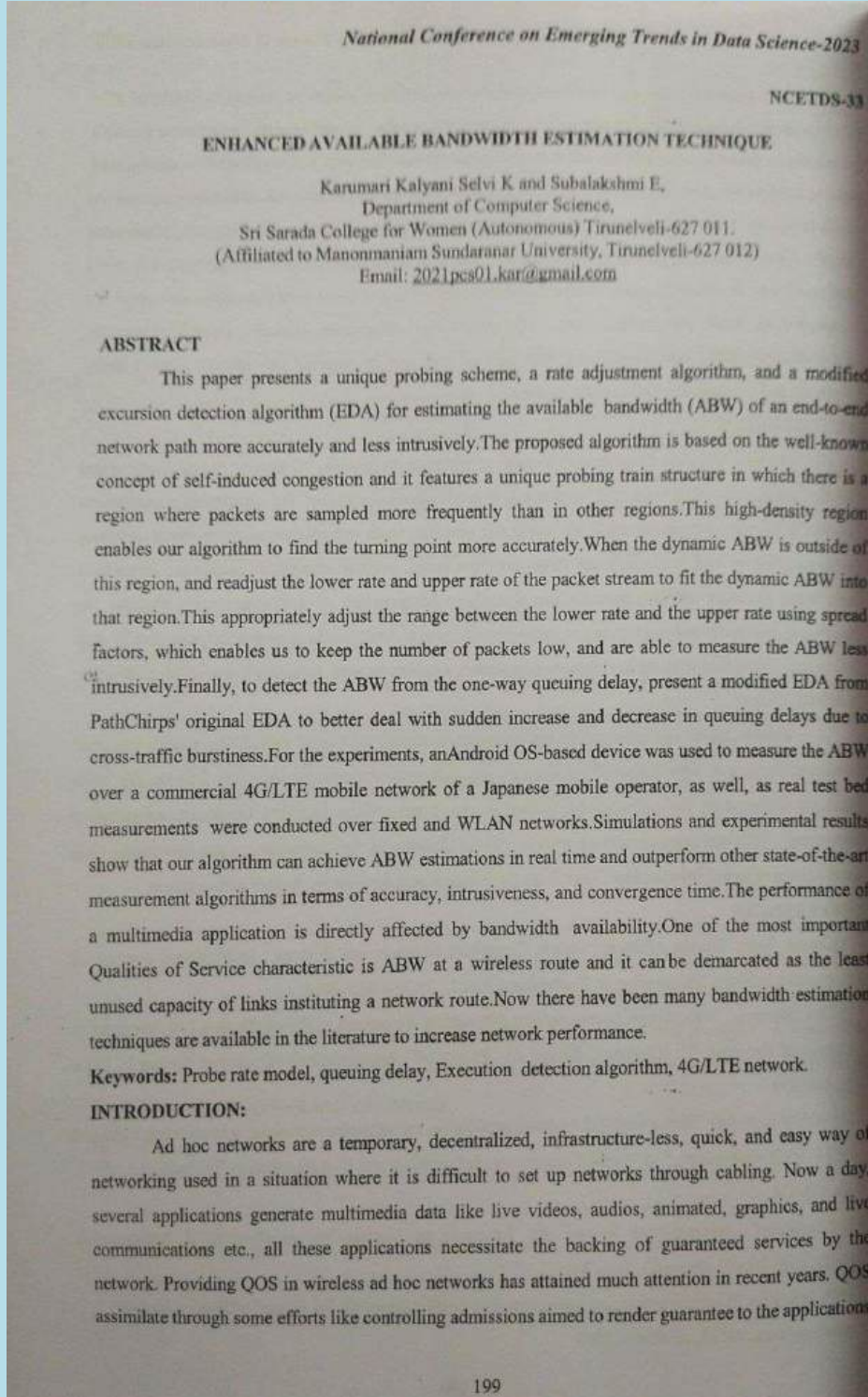
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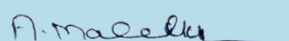


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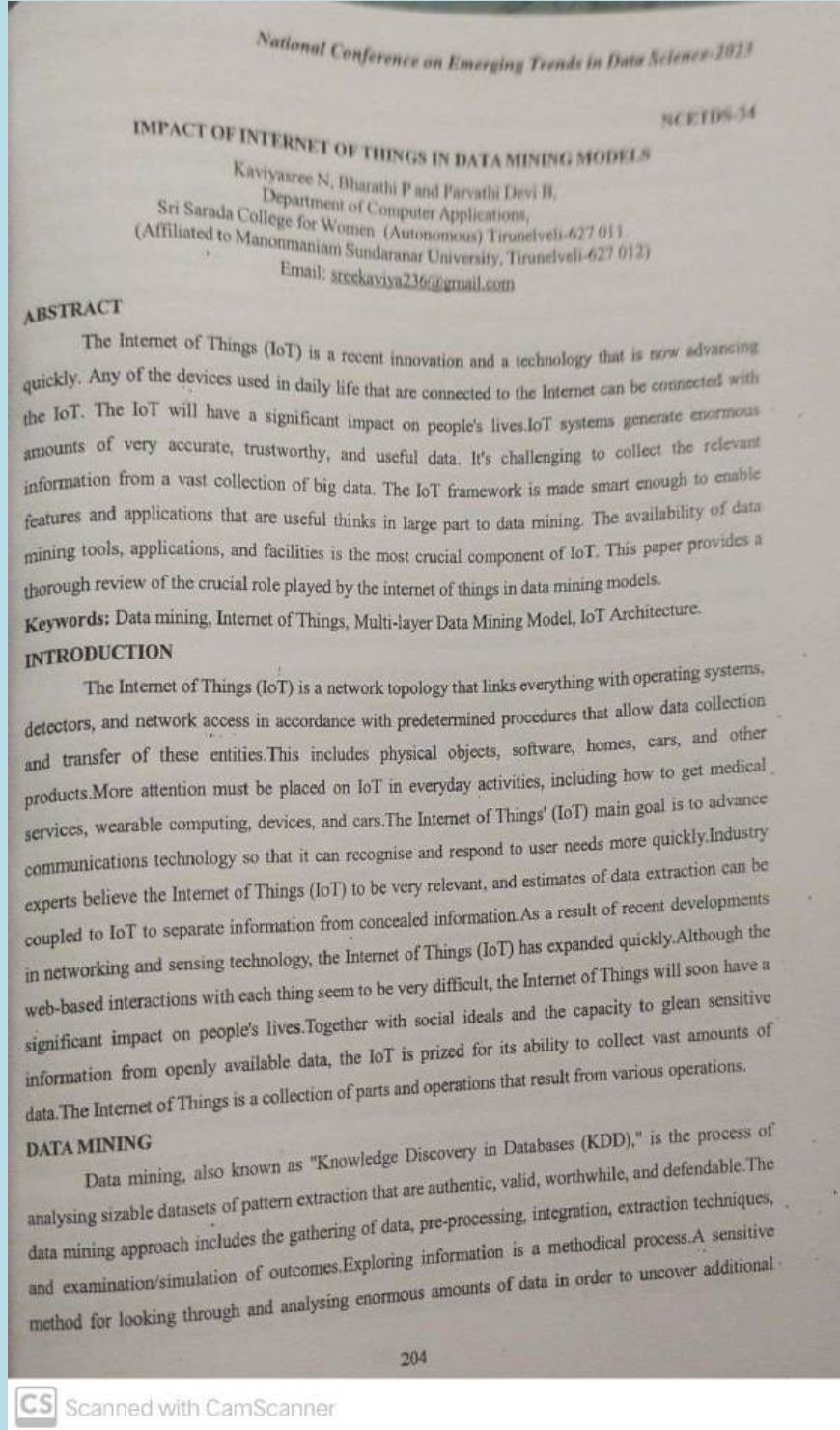
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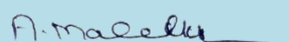


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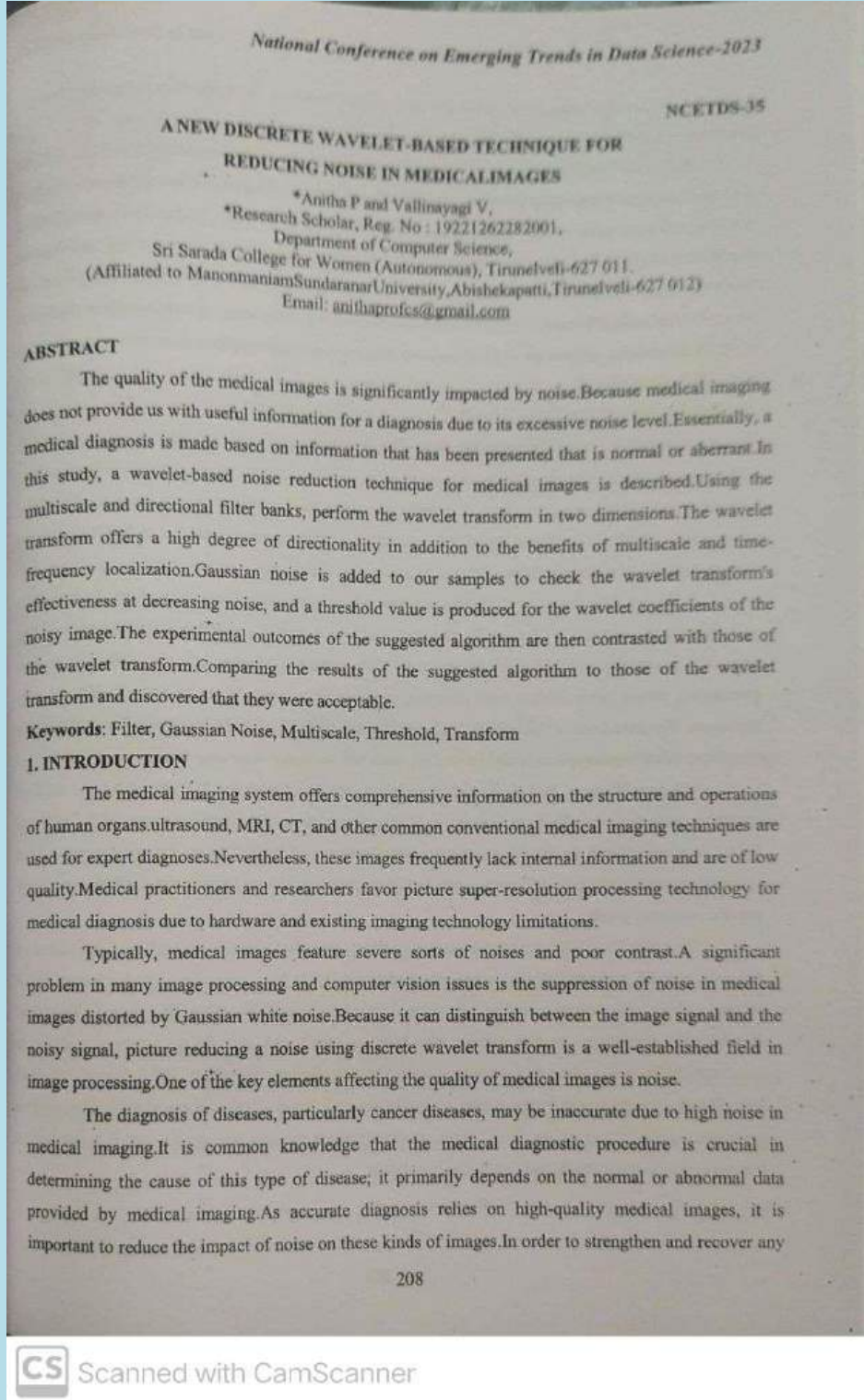
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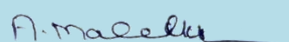


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