

# CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021102254

The Commissioner of Patents has granted the above patent on 2 June 2021, and certifies that the below particulars have been registered in the Register of Patents.

**Name and address of patentee(s):**

Balaji Devarajan of 22 roath place Prospect NSW 2148 Australia

PRASATH S of Asst. Prof., Depart. of Computer Science, Nandha Arts and Science College Erode Tamil Nadu India

Venkatesan M of Principal, K S R Institute, for Engineering and Technology Tiruchengode Tamil Nadu India

Meenakshi Devi P of Director - Academics, K S R Institute, for Engineering and Technology Tiruchengode Tamil Nadu India

BHARATHI E of Asst. Prof. & Head Dept. of CSE, Govt. Arts and Science College Erode Tamil Nadu India

**GHAYATHRI J of Asst. Prof., Dept. of CSE (PG), Kongu Arts and Science College Erode Tamil Nadu India**

SELVAKUMAR A of Asst. Prof., Dept. of CSE, Sree Saraswathi Thyagaraja College Pollachi Tamil Nadu India

Gopinath P of HoD/ ASP, Mechanical Engineering, K S R Institute for Engineering and Tech Tiruchengode Tamil Nadu India

KARTHIGAI S of Asst. Prof. & Head, Dept. of CSE, Dr. RANM Arts and Science College Erode Tamil Nadu India

Jagan Raj Jayapandiyam of 7 Church Street, Ammanpettai, Anaikkudi PO, Thiruvaidaimaruthur TK Kumbakonam Tamil Nadu India

Mani R of Professor, Mechanical Engineering, K S R Institute for Engineering and Tech Namakkal Tamil Nadu India

MOHANRAJ A of Assistant Professor, Mechanical Engg, K S R Institute for Engineering and Tech Namakkal Tamil Nadu India

MURUGESAN P of Professor Mechanical Engineering, K S R Institute for Engineering and Tech Namakkal Tamil Nadu India

VASANTHAKUMAR R of Asst. Prof., Mechanical Engineering, K S R Institute for Engineering and Tech Namakkal Tamil Nadu India

RAJAKUMARESWARAN V of ADMIRE SOLUTION 45, CHENKUMAR COMPLEX, PARI NAGAR, PALAYAPALAYAM ERODE Tamil Nadu India

**Title of invention:**

**Wind turbine nacelle with phase change material which controls temperature using AI**

**Name of inventor(s):**



Dated this 2<sup>nd</sup> day of June 2021

Commissioner of Patents

**Dr. N. RAMAN**  
PRINCIPAL,  
KONGU ARTS AND SCIENCE COLLEGE  
(AUTONOMOUS)  
NANJANAPURAM, ERODE - 638 107.



Office of the Controller General of Patents, Designs & Trade Marks  
Department of Industrial Policy & Promotion,  
Ministry of Commerce & Industry,  
Government of India

(<http://ipindia.nic.in/index.htm>)



INTELLECTUAL  
PROPERTY INDIA  
PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS

(<http://ipindia.nic.in/index.htm>)

### Application Details

APPLICATION NUMBER	202141037914
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	20/08/2021
APPLICANT NAME	1 . Ms.Udayini Chandana 2 . Dr. Kezia Joseph Mosiganti 3 . Dr.S.Nagarajan 4 . Dr. R. Hariharan 5 . Dr. P Hema 6 . Mr.Namit Khanduja 7 . Dr.P.Selvan 8 . Dr.Raju Dindigala 9 . Dr. Basayya B. Mathad 10 . Dr.T.Ramakrishna Goud 11 . Dr. Mallikarjunagouda B. Patil 12 . Mr.Nitish Kumar Choudhary
TITLE OF INVENTION	A new local Multi Scale Fourier transform based image processing methodology for Scan images
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	2015sudtech@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	24/09/2021



Dr. N. RAMAN  
PRINCIPAL,  
KONGU ARTS AND SCIENCE COLLEGE  
(AUTONOMOUS)  
NANJANAPURAM, ERODE - 638 107.

11



Office of the Controller General of Patents, Designs & Trade Marks  
Department of Industrial Policy & Promotion,  
Ministry of Commerce & Industry,  
Government of India

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

### Application Details

APPLICATION NUMBER	202141043268
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/09/2021
APPLICANT NAME	1 . Arumugam Ranjith 2 . S.Sekar 3 . Gowrishankkar V 4 . Dr.S.Kavitha 5 . Dr. C. SUBATHRA 6 . Dr. R.NAGESWARI 7 . Dr. H. Vasudevan 8 . Dr S G BALAJI 9 . Mrs.T.Subha 10 . Mr. D. YUVASHANKAR, 11 . Dr.Y.Babu vinothkumar
TITLE OF INVENTION	Consumer Attitudes towards International and Local Brands in the Indian Manufacturing Sector
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	ranjithece@gmail.com
ADDITIONAL-EMAIL (As Per Record)	anvarshathik@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/10/2021



(12)



Office of the Controller General of Patents, Designs & Trade Marks  
Department of Industrial Policy & Promotion,  
Ministry of Commerce & Industry,  
Government of India

ad  
1st

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

### Application Details

APPLICATION NUMBER	202141043584
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/09/2021
APPLICANT NAME	1 . Arumugam Ranjith 2 . Ms. K Gowri 3 . Dr. Kannan Pulraj 4 . Dr. V. VASANTH 5 . Dr.M.Suryakumar 6 . Ms.G.Arutgeevitha 7 . Dr.S Praveenkumar 8 . Dr.V. Dheenadhayalan 9 . Dr.Girish Kumar Painoli 10 . Dr. Parveen Vashisth 11 . Ms. P.K.MANGAIYARKARASI,
TITLE OF INVENTION	The Importance of Information Technology (IT) in the Electronic Commerce Industry
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	ranjithece@gmail.com
ADDITIONAL-EMAIL (As Per Record)	anvarshathik@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/10/2021



Application Status

Dr. N. RAMAN  
PRINCIPAL,  
KONGU ARTS AND SCIENCE COLLEGE  
(AUTONOMOUS)  
NANJANAPURAM ERODE - 638 107.



Office of the Controller General of Patents, Designs & Trade Marks  
Department of Industrial Policy & Promotion,  
Ministry of Commerce & Industry,  
Government of India



**INTELLECTUAL  
PROPERTY INDIA**  
PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATORS

22/11/21


14

**Application Details**

APPLICATION NUMBER 202141042017  
APPLICATION TYPE ORDINARY APPLICATION  
DATE OF FILING 17/09/2021

APPLICANT NAME  
1 . Arumugam Ranjith  
2 . DR.R.RAMACHANDRAN  
3 . Dr. S. VIJAYALAKSHMI  
4 . Dr.N. Srividhya,  
5 . Dr.Ramachandran  
6 . Dr.Girish Kumar Painoli  
7 . KANAGASABAPATHY G  
8 . Dr.M.GURUSAMY,  
9 . K.V.SHANMUGAVADIVU  
10 . BASAVARAJ S MAMMANI  
11 . Dr. Mohd Naved

TITLE OF INVENTION An investigation into E-commerce and its impact on the Indian market and retailers  
FIELD OF INVENTION COMPUTER SCIENCE  
E-MAIL (As Per Record) aranjithece@gmail.com  
ADDITIONAL-EMAIL (As Per Record) anvarshathik@gmail.com  
E-MAIL (UPDATED Online)  
PRIORITY DATE  
REQUEST FOR EXAMINATION DATE --  
PUBLICATION DATE (U/S 11A) 01/10/2021

  
**Dr. N. RAMAN**  
PRINCIPAL,  
KONGU ARTS AND SCIENCE COLLEGE  
(AUTONOMOUS)  
KANJANAPURAM ERODE - 638 107.



Office of the Controller General of Patents, Designs & Trade Marks  
Department of Industrial Policy & Promotion,  
Ministry of Commerce & Industry,  
Government of India

(<http://ipindia.nic.in/index.htm>)



INTELLECTUAL  
PROPERTY INDIA  
PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS

(<http://ipindia.nic.in/index.htm>)

### Application Details

APPLICATION NUMBER	202141048336
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/10/2021
APPLICANT NAME	1 . Dr. Vipin Kumar 2 . Dr Jyoti Singh Raghav 3 . Dr.A.Shobana 4 . Dr.K.Renuka 5 . Dr.S.Punitha 6 . Dr.S.Nagarajan 7 . Mrs. P. Jenifer
TITLE OF INVENTION	AN APPROACH BASED ON GRAPH THEORY TO REDUCE MATHEMATICAL COMPLEXITY
FIELD OF INVENTION	TEXTILE
E-MAIL (As Per Record)	drvkmaths@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	05/11/2021



**Dr. N. RAMAN**  
PRINCIPAL,  
KONGU ARTS AND SCIENCE COLLEGE  
(AUTONOMOUS)  
MANJANAPURAM, ERODE - 638 107.

### Application Status

APPLICATION STATUS

**Awaiting Request for Examination**



Office of the Controller General of Patents, Designs & Trade Marks  
Department of Industrial Policy & Promotion,  
Ministry of Commerce & Industry,  
Government of India

22/11

7

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

### Application Details

APPLICATION NUMBER 202141048738  
APPLICATION TYPE ORDINARY APPLICATION  
DATE OF FILING 25/10/2021  
APPLICANT NAME  
1 . B. Meenakshi Sundaram  
2 . Dr.S.Thangamayan  
3 . Dr.S. Kavitha  
4 . Dr.S. Suguna  
5 . Dr.S.Mahalakshmi  
6 . Dr.S. Senthilraja  
7 . Dr M Jayanthi  
8 . A.Sahana  
9 . Dr. Ravi Shankar C  
10 . Dr.C.Kathiravan

Received in our KASC

### TITLE OF INVENTION

DEVELOPMENT OF THE BUSINESS MODEL OF THE COLLABORATIVE  
E-MARKETPLACE

### FIELD OF INVENTION

COMPUTER SCIENCE

### E-MAIL (As Per Record)

esdiyeminfotech@gmail.com

### ADDITIONAL-EMAIL (As Per Record)

### E-MAIL (UPDATED Online)

### PRIORITY DATE

### REQUEST FOR EXAMINATION DATE

--

### PUBLICATION DATE (U/S 11A)

05/11/2021



Dr. N. RAMAN  
PRINCIPAL,  
KONGU ARTS AND SCIENCE COLLEGE  
(AUTONOMOUS)  
NANJANAPURAM, ERODE - 638 107.

Application Status

# KONGU ARTS AND SCIENCE COLLEGE

AUTONOMOUS

ERODE

(10)

19/11

## Patent Detail

Name of the Faculty/  
Applicant : Dr. B. Jayanthi  
Designation : Associate Professor & Head  
Department : Computer Science (PG)  
Patent ID/Application  
no : 202141042804  
Title of the Invention : A System for Automatic Pallet Changer in  
Warehouse by Using Machine Learning  
Patent Status : Published

Application/  
Date of Filing } : 21.09.2021

Publication Date : 5.11.2021



Dr. N. RAMAN  
PRINCIPAL,  
KONGU ARTS AND SCIENCE COLLEGE  
(AUTONOMOUS)  
NANJANAPURAM, ERODE - 638 107.



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141057649 A

(19) INDIA

(22) Date of filing of Application :11/12/2021

(43) Publication Date : 17/12/2021

(54) Title of the invention : **ARTIFICIAL INTELLIGENCE EMPLOYED TO CREATE A REVOLUTIONARY ENERGY-EFFICIENT INTELLIGENT DEVICE FOR WEATHER OBSERVATION**

(51) International classification :E05F0015710000, F24F0003160000, A01M0001200000, G06N0005020000, F21V0023040000

(86) International Application No :PCT//  
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

1)Dr. T. A. Selvan

Address of Applicant :Professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kuniamuthur, Coimbatore – 641008. Mail id: selvan@skcet.ac.in Phone number: 9940819665 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. T. A. Selvan

Address of Applicant :Professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kuniamuthur, Coimbatore – 641008. Mail id: selvan@skcet.ac.in Phone number: 9940819665 -----

2)Ms. M. Rohini

Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Sri Krishna College of Engineering and Technology, Kuniamuthur, Coimbatore – 641008. -----

3)Mr. S. Rajesh

Address of Applicant :Assistant Professor, Department of Mechanical Engineering, R.M.K. Engineering College, Kavaraipeetai – 601206. -----

4)Mr. B. Hakkem

Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Hindusthan Institute of Technology, coimbatore-641032. -----

5)Mr. S. Madhankumar

Address of Applicant :Assistant Professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kuniamuthur, Coimbatore – 641008. -----

6)Ms. K. Durgalakshmi

Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, Dr. Mahalingam College of Engineering and Technology, Pollachi - 642003. -----

7)Mr. D. Gnanaprakasam

Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, Dr. Mahalingam College of Engineering and Technology, Pollachi - 642003. -----

8)Ms. S. Karthikeyeni

Address of Applicant :Associate Professor, Department of Computer Science (P.G.), Kongu Arts and Science College (Autonomous), Erode – 638107. -----

(57) Abstract :

Windows are a vital feature of every structure because they allow for proper ventilation and enable sunlight to enter. The sun's beams contain natural ultraviolet radiation that are effective at destroying pathogenic microbes. Long-closed spaces suffer from moisture, fungi, and other issues; thus, windows must be opened frequently throughout the day to allow fresher air to enter. One issue remains: users must manually control the windows, curtains, and so forth. To overcome the above stated issue, the objective of this invention is to create a revolutionary energy-efficient intelligent device for weather observation using artificial intelligence. This device comprising: an internal sensor module for sensing interior weather patterns with a multitude of sensing devices; an exterior sensor module for sensing the outside weather patterns with a multitude of detectors, a central controller module, a load relay unit, a processor, and a smartphone with artificial intelligence. Using this device, the window automatically opens and shuts based on the weather scenarios utilising artificial intelligence.

No. of Pages : 7 No. of Claims : 3



The Patent Office Journal No. 51/2021 Dated **KONGU ARTS AND SCIENCE COLLEGE** 82437

**Dr. N. RAMAN**  
PRINCIPAL,  
**KONGU ARTS AND SCIENCE COLLEGE**  
(AUTONOMOUS)  
NANJANAPURAM, ERODE - 638 107.

12) PATENT APPLICATION PUBLICATION

(21) Application No.202041016068 A

19) INDIA

22) Date of filing of Application :14/04/2020

(43) Publication Date : 05/06/2020

54) Title of the invention : DATA INTEGRATION PLATFORM OF UNIFIED PAYMENT INTERFACE FOR SEASONAL ENTREPRENEURS

51) International classification :G06Q0010040000,  
G06Q0030020000,  
G06Q0010100000,  
G06Q0030060000,  
G06Q0010060000

31) Priority Document No :NA  
 32) Priority Date :NA  
 33) Name of priority country :NA  
 36) International Application No :NA  
 Filing Date :NA  
 37) International Publication No :NA  
 51) Patent of Addition to Application Number :NA  
 Filing Date :NA  
 52) Divisional to Application Number :NA  
 Filing Date :NA

(71)Name of Applicant :

1)Dr.P.Karthikeyan

Address of Applicant :Assistant Professor, School of Management Studies, Kongu Engineering College, Perundurai,Erode-638060, Tamilnadu, India Tamil Nadu India

2)Dr.S.Muralidhar

3)Dr.P.Karthika

4)Dr.M.Thangam

5)Dr.M. S. Sureshkumar

6)Dr.Udhayakumar Ramasamy

7)Dr.A.S.SathishKumar

8)Dr.K.Selvaraju

(72)Name of Inventor :

1)Dr.P.Karthikeyan

2)Dr.S.Muralidhar

3)Dr.P.Karthika

4)Dr.M.Thangam

5)Dr.M. S. Sureshkumar

6)Dr.A.S.SathishKumar

7)Dr.K.Selvaraju

8)Dr.Udhayakumar Ramasamy

Dept of BBA of Kase

57) Abstract :

beyond every seasonal merchandising is an entrepreneur who is inclined to work twice as hard and smart as the traditional owner of business. Today's modern world is full of highly efficient technologies and small scale, seasonal large scale entrepreneurs are getting data from it. As seasonal entrepreneurs may see the profit in a particular season, integrating their business operation with unified payment interface makes their job effective and easy. Data integration refers to the act of gathering and combining information from various sources, so that it can be extended to various business ends or specific users, business units, partners or potential solutions. With the help of data integration tool such as xplenty, talend, Adeptia, pipemunk the analysis of the recent payments and the technological trends in the unified payment interface by end-user can be easily gathered which can be further categorized as per the need of seasonal entrepreneurs. The categorized data can be applied in many aspects based on location, type of business, user recent payments and the frequency of how often the payments are done by the end user through UPI. These data are helpful for seasonal entrepreneurs to plan their requirements, improve their business operation and provides greater efficiency that leads to generate high profitability.

No. of Pages : 12 No. of Claims : 7




Dr. N. RAMAN  
PRINCIPAL,  
KONGU ARTS AND SCIENCE COLLEGE  
(AUTONOMOUS)  
NANNIYANAPIRAM ERODE - 638 107.

**Application Details**

APPLICATION NUMBER	202041046909
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/10/2020
APPLICANT NAME	1 . Dr K P Uma 2 . Dr S K Latha 3 . S.Padma 4 . Dr T Rojarmy 5 . M. Kiruthika 6 . S.Girija 7 . S. Sumathi 8 . Dr. Manoj Sharma 9 . Dr. G.V.V.Jagannadha Rao 10 . Dr. Nagarajan S
TITLE OF INVENTION	MATHEMATICAL MODELING OF HUMAN RESOURCE RECRUITMENT USING UNIVARIATE AND BIVARIATE POLICIES
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	umamaths95@gmail.com
ADDITIONAL-EMAIL (As Per Record)	umamaths95@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	28/10/2020
PUBLICATION DATE (U/S 11A)	06/11/2020



  
**Dr. N. RAMAN**  
PRINCIPAL,  
KONGU ARTS AND SCIENCE COLLEGE  
(AUTONOMOUS)  
NANJANAPURAM, ERODE - 638 107



Australian Government

IP Australia

2

# CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021100003

The Commissioner of Patents has granted the above patent on 3 March 2021, and certifies that the below particulars have been registered in the Register of Patents.

**Name and address of patentee(s):**

Saad Bin Abul Kashem of Lecturer, Qatar Armed Forces, Academic Bridge Program, Qatar foundation Education City, LAS building, Doha- 24404 Qatar

S. Arularasu of No.140, South Ring Road, D.A.E. Township Kalpakkam-603102 India

M. Gurusamy of Professor and Head, PG Dept.of Commerce & Management Studies, Brindavan College, Dwarakanagar Bagalur Main Road, Yelahanka, Bangalore - 560063 India

Gandi Suman of Assistant Professor, Department of Applied Sciences, National Institute of Technology Goa Farmagudi, Ponda, Goa India

Sita Rani of Professor, Dept. of Computer Science & Engineering Gulzar Institute of Engineering and Technology, Gulzar Group of Institutes, Punjab- 141401 India

S.Mohamed Abbas of Associate Professor, Department of Mechanical Engineering, Saveetha School of Engineering Saveetha University, Chennai, Tamil Nadu, India

Tulika Chakrabarti of Assistant Professor (Grade-A), Dept.of Chemistry, Sir Padampat Singhania University Udaipur , Rajasthan- 313601 India

Ananda Shankar Hati of Assistant Professor, (Electrical Engineering), Dept. of Mining Machinery Engineering Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand- 826004 India

Reddappa H.N of Associate Professor, Department of Mechanical Engineering, Bangalore Institute of Technology K. R. Road,V. V. Pura, Bengaluru, Karnataka - 560 004 India

S. Nagarajan of Associate Professor and Head, Department of Mathematics Kongu Arts and Science College (Autonomous), Erode, Tamil Nadu - 638107 India

S. Selvakanmani of Associate Professor, Computer Science and Engineering, Velammal Institute of Technology Velammal Knowledge Park, Chennai, Tamil Nadu - 601204 India

Prasun Chakrabarti of Provost & Institute Endowed Distinguished, Senior Chair Professor, Techno India NJR Institute of Technology Udaipur, Rajasthan - 313003 India

**Title of invention:**

A DEEP TRANSPORTATION MODEL TO PREDICT THE HUMAN MOBILITY FOR AUTONOMOUS VEHICLE

**Name of inventor(s):**

Kashem, Saad Bin Abul; Arularasu, S.; Gurusamy, M.; Suman, Gandi; Rani, Sita; Abbas, S.Mohamed; Chakrabarti, Tulika; Hati, Ananda Shankar; H.N, Reddappa; Nagarajan, S.; Selvakanmani, S. and Chakrabarti, Prasun

**Term of Patent:**



Dated this 3<sup>rd</sup> day of March 2021

**Dr. N. RAMAN**  
PRINCIPAL,  
KONGU ARTS AND SCIENCE COLLEGE  
(AUTONOMOUS)  
NANJANAPURAM, ERODE - 638 107,

Commissioner of Patents

**PATENTS ACT 1990**

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right