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# CERTIFICATE OF GRANT INNOVATION PATENT

**Patent number:** 2021105525

The Commissioner of Patents has granted the above patent on 27 October 2021, and certifies that the below particulars have been registered in the Register of Patents.

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**Title of invention:**

MOBILE USER TRAJECTORY PREDICTION SYSTEM WITH EXTREME MACHINE LEARNING ALGORITHM

**Name of inventor(s):**

Kalpana, G.; Maragani, Satish Kumar; L., Sathish Kumar.; Vasavi, G.; Rao, Chennamsetty Madhusudhana; Rani, V. Vasudha; Kumar, K. R. N. Kiran; Sarangi, Sanjaya Kumar; Agrawal, Sandeep Kumar; Senthilmurugan, S.; Jaiswal, Tarun and Jaiswal, Sushma



Dated this 27<sup>th</sup> day of October 2021

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.

This data, for application number 2021105525, is current as of 2022-08-31 21:00 AEST





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# CERTIFICATE OF GRANT INNOVATION PATENT

**Patent number:** 2021105525

**Term of Patent:**

Eight years from 15 August 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 27<sup>th</sup> day of October 2021

Commissioner of Patents

**PATENTS ACT 1990**

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# CERTIFICATE OF GRANT INNOVATION PATENT

**Patent number:** 2021104045

The Commissioner of Patents has granted the above patent on 25 August 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Ashwini S of Assistant Professor, Department of CSE, Saveetha School of Engineering, SIMATS Chennai Tamil Nadu 600124 India

**Title of invention:**

FAILURE NODES DETECTION AND RECOVERY SYSTEM IN CLOUD COMPUTING TO IMPROVE RESOURCES RELIABILITY

**Name of inventor(s):**

Gupta, Aditya Kumar; Devi, G. Radha; Kumari, Pilli Lalitha; Kumar, D. Sai; Krishna, B. Hari; Vani, G.; Jiddu, Jaylakshmi; Mahapatra, Sakuntala; Satpathy, Rabinarayan; Jaiswal, Tarun; Jaiswal, Sushma and S., Ashwini



Dated this 25<sup>th</sup> day of August 2021

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.





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# CERTIFICATE OF GRANT INNOVATION PATENT

**Patent number:** 2021104045

**Term of Patent:**

Eight years from 11 July 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 25<sup>th</sup> day of August 2021

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.



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# CERTIFICATE OF GRANT INNOVATION PATENT

**Patent number:** 2021103446

The Commissioner of Patents has granted the above patent on 22 September 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Sushma Jaiswal of Assistant Professor, Department of CSIT, Guru Ghasidas Vishwavidyalaya Koni, Bilaspur  
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**Title of invention:**

ENERGY EFFICIENT WIRELESS SENSOR NETWORK WITH OPTIMIZED CLUSTERING AND  
COMPRESSIVE SAMPLING

**Name of inventor(s):**

Mummana, Satyanarayana; T., Suma; Saveetha, V.; Grace, R. Kingsy; Anantha, N. Lakshmipathi; Rajasekaran,  
P.; Satpathy, Rabinarayan; Muni, T. Vijay; Sharma, Ashwini; Aravinda, N. L.; Jaiswal, Tarun and Jaiswal,  
Sushma



Dated this 22<sup>nd</sup> day of September 2021

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.





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# CERTIFICATE OF GRANT INNOVATION PATENT

**Patent number:** 2021103446

**Term of Patent:**

Eight years from 18 June 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 22<sup>nd</sup> day of September 2021

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.



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# CERTIFICATE OF GRANT INNOVATION PATENT

**Patent number:** 2021103249

The Commissioner of Patents has granted the above patent on 8 September 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Pavithra G. of Associate Professor, Department of ECE, Dayananda Sagar College of Engineering, Kumaraswamy Layout Bangalore Karnataka 560078 India

**Title of invention:**

A NOVEL MULTI-LEVEL OPTIMIZATION FOR TASK SCHEDULING AND LOAD BALANCING IN CLOUD

**Name of inventor(s):**

Ahmad, Shahnawaz; Mehfuz, Shabana; Vetriselvi, T.; Anveshini, Dumala; Senapati, Manas Ranjan; Raghavarao, Y. V.; Satpathy, Rabinarayan; Devaraju, S.; Srinivas, Mandadi; Jaiswal, Sushma; Jaiswal, Tarun and G., Pavithra



Dated this 8<sup>th</sup> day of September 2021

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.





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# CERTIFICATE OF GRANT INNOVATION PATENT

**Patent number:** 2021103249

**Term of Patent:**

Eight years from 10 June 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 8<sup>th</sup> day of September 2021

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.





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# CERTIFICATE OF GRANT INNOVATION PATENT

**Patent number:** 2021103132

The Commissioner of Patents has granted the above patent on 22 September 2021, and certifies that the below particulars have been registered in the Register of Patents.

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A.V.Sudhakara Reddy of Associate Professor, Department of EEE, Malla Reddy Engineering College Secunderabad, Telangana 500100 India

**Title of invention:**

AN AUTOMATIC TUMOR DETECTION SYSTEM BASED ON LOCAL LINEAR WAVELET ARTIFICIAL NEURAL NETWORK WITH HYBRID OPTIMIZATION

**Name of inventor(s):**

Badashah, Syed Jahangir; Naidu, S.Mani; Senapati, Manas Ranjan; Garladinne, Ravikanth; Khamuruddeen, Shaik; Murthy, Namuduri SSR; Rammurthy, D.; Gagnani, Lokesh P; Satpathy, Rabinarayan; Jaiswal, Tarun; Jaiswal, Sushma and Reddy, A.V.Sudhakara



Dated this 22<sup>nd</sup> day of September 2021

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.





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# CERTIFICATE OF GRANT INNOVATION PATENT

**Patent number:** 2021103132

**Term of Patent:**

Eight years from 5 June 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 22<sup>nd</sup> day of September 2021

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.





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# CERTIFICATE OF GRANT INNOVATION PATENT

**Patent number:** 2021102935

The Commissioner of Patents has granted the above patent on 20 April 2022, and certifies that the below particulars have been registered in the Register of Patents.

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Tarun Jaiswal of Research Scholar, Department of Computer Application, National Institute of Technology (NIT) Raipur Chhattisgarh 492010 India

**Title of invention:**

AN AUTOMATIC OPTIMIZED FEATURES SELECTION SYSTEM IN RETINOPATHY DETECTION USING ACTIVE EXTREME LEARNING MACHINE

**Name of inventor(s):**

Lakshmi, G. Tejo; Chandana, Udayini; Mosiganti, Joseph Prakash; Palaniappan, Karthikeyan; Prabhu, P.; Anil, G. R.; B., Venkaiahppalawamy; Vanajakshi, N.; Chaitanya, Atmakuri Krishna; Jawahar, S.; Jaiswal, Sushma and Jaiswal, Tarun



Dated this 20<sup>th</sup> day of April 2022

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.

This data, for application number 2021102935, is current as of 2022-08-31 21:00 AEST





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# CERTIFICATE OF GRANT INNOVATION PATENT

**Patent number:** 2021102935

**Term of Patent:**

Eight years from 28 May 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 20<sup>th</sup> day of April 2022

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.