Mr. N. Sendhil Kumar, MCA, M.Tech,
Assoc.Prof & Head of MCA Department

DETAILS OF PUBLISHED RESEARCH WORK

- Number of Patent published : 01
- Number of International Journal Publications : 21

Patents

1) The Patent Office Journal No. 37/2022 Dated 16/09/2022
   PATENT APPLICATION PUBLICATION : INDIA,
   Application No.202241050764 A
   Date of filing of Application :06/09/2022
   Publication Date : 16/09/2022
   Title of the invention : **HUMIDITY DETECTION SENSOR SYSTEM (HDS2)**

Journals

1) N. Sendhil Kumar,"Prevention and Protection Data Exchange between Communication Devices in Public Routers at Real Time", International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211 Volume 10, Issue 10, October-2022, Impact Factor: 7.429.

2) N. Sendhil Kumar,"A Scalable Platform to Collect and Analyse Big Data in Twitter using Random forest Algorithm", International Journal of Emerging Technologies and Innovative Research (www.jetir.org), ISSN:2349-5162, Vol.9, Issue 10, page no.d391-d395, October-2022, Available :http://www.jetir.org/papers/JETIR2210361.pdf

3) N. Sendhil Kumar,"Fraud Detection in Credit Card Data Using Unsupervised Based Scheme", International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211, Volume 10, Issue 8, August-2022, Impact Factor: 7.429.

4) N. Sendhil Kumar,"Industrial IoT with Block Chain Based Trust worthy Digital Twins", International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211, Volume 10, Issue 7, July-2022, Impact Factor: 7.429,

5) N. Sendhil Kumar, "Remote Sensing Application with Real-Time Big Data Systematic Construction", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Volume 3, Issue 4 , March-April-2018

6) N. Sendhil Kumar , "Data Authenticity and Anonymity by the Use of Identity Primarily Based Ring Signature", International Journal of Innovative Technologies, ISSN :2321-8665, Vol.5, Issue 4,April-2017

7) N. Sendhil Kumar , 'Data Authenticity and Anonymity by the Use of Identity Primarily Based Ring Signature", International Journal of Innovative Technologies, ISSN :2321-8665, Vol.5, Issue 4,April-2017

8) N. Sendhil Kumar , "Protected Data Sharing from Unpredictable Storage Integrity Encryption in Cloud Computing", International Journal of Innovative Technologies, ISSN :2321-8665, Vol.5, Issue 4,April-2017

9) N. Sendhil Kumar , "Confidence Content Record And Picture Dispense On Connected Public Network" , International Journal of Innovative Technologies, ISSN :2321-8665, Vol.5, Issue 4,April-2017

10) N. Sendhil Kumar , "IAAS Based Cloud Security and a Deep View Trust Model", SSRG International Journal of Computer Science and Engineering (SSRG-IJCSE) – volume 3 Issue 4– April 2016

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11) N. Sendhil Kumar , "Developing High Recital Online Based Computing Services to Endorse Telemedicine Database Management System", SSRG International Journal of Computer Science and Engineering (SSRG-IJCSE) – volume 3 Issue 4–April 2016

12) N. Sendhil Kumar, S.Palani, "*Influencing Social Networks for P2P Substance-based File Distribution in Disjointed MANETs*" International Journal of Computer Applications (0975 – 8887) Volume 122 – No.2, July 2015.

13) N. Sendhil Kumar, A.Shamili, "*Android Based Emergency Alert Button*" International Journal Of Research In Computer Application & Management(IJRCM)– (004-007) VOLUME NO. 5 (2015), ISSUE NO. 05 (MAY) ISSN 2231-1009

14) N. Sendhil Kumar, D. Chittemma yadav, "*Home Automation And Security System Using Android Adk*" International Journal Of Research In Computer Application & Management(IJRCM)– (046-049) VOLUME NO. 5 (2015), ISSUE NO. 05 (MAY) ISSN 2231-1009

15) N. Sendhil Kumar, A.Swetha, "*Implementation of Rapid Data Mining Console Techniques in Life Insurance Domain*" SSRG International Journal of Computer Science and Engineering (SSRG-IJCSE) – (116-124) volume 2 issue 5 May 2015, ISSN: 2348 – 8387

16) N. Sendhil Kumar, A.Geetha, "*Robust and Secure Online Bus Ticket Reservation System*" SSRG International Journal of Computer Science and Engineering (SSRG-IJCSE) – (157-163) volume 2 issue 5 May 2015, ISSN: 2348 – 8387

17) N. Sendhil Kumar, Agarapu Raghavendra, "*Secure Online Examination Management System Using Firewall Settings*" SSRG International Journal of Computer Science and Engineering (SSRG-IJCSE) – (185-191) volume 2 issue 5 May 2015, ISSN: 2348 – 8387

18) N. Sendhil Kumar, Agarapu Raghavendra, "*Secure Online Examination Management System Using Firewall Settings*" SSRG International Journal of Computer Science and Engineering (SSRG-IJCSE) – (185-191) volume 2 issue 5 May 2015, ISSN: 2348 – 8387

19) N. Sendhil Kumar, C.Thulasiram, "*Secure Data Aggregation for the Wireless Sensor Networks*" SSRG International Journal of Computer Science and Engineering (SSRG-IJCSE) – (219-223) volume 2 issue 5 May 2015, ISSN: 2348 – 8387

20) N. Sendhil Kumar, Mohan Babu, "*Cooperative System for Online Training and Placement*" SSRG International Journal of Computer Science and Engineering (SSRG-IJCSE) – (247-252) volume 2 issue 5 May 2015, ISSN: 2348 – 8387

21) N. Sendhil Kumar, D.Shahensha, "*Secure Air Cargo Supply Chain Management System*" SSRG International Journal of Computer Science and Engineering (SSRG-IJCSE) – (253-263) volume 2 issue 5 May 2015, ISSN: 2348 – 8387

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DETAILS OF INTERNATIONAL/NATIONAL CONFERECE

1) N Sendhil Kumar,"**5G Network Virtualization for the Remote Driving Enhancement**",DOI:10.1109/ICCCT53315.2021.9711894 Publisher: IEEE, 18 February 2022.

2) International conference on "*Futuristic Trends in Computing Communication (ICFTICC-2015)*" presented a paper titled "**Classifying Students Performance by analyzing internal Assessments of students data**" Organized by department of CSE at S.A. Engineering College, Chennai on 29th April, 2015.

3) National Conference on "*Advanced Computing Innovations (NCACI-2K15)*" presented a paper titled "**Android Application for Online Railway Stipulation System**" at KMM Institute of Post Graduate Studies, Tirupathi, 25th April, 2015.

4) International Conference on "**Futuristic trends in Computer Science Engineering & Information Technology**" and presented a paper titled "Secured Dynamic Source Routing Protocol for MANETS " at TCET , Vandavasi on 2nd & 3rd March 2013.

5) National Conference on "*Emerging Scenario in Power Engineering and Electrical Drives(eSPEED-2013)*" presented a paper titled "**Localization of Servants Over P2P Netowkrs**" at K.S.Rangasamy College of Technology, Tiruchengode, 7th February, 2013.

6) National Conference on "*Wireless Technologies for urban Security*" presented a paper titled "**Data Mining for Intrusion Detection**" , Sponsored by DRDO, Organized by Department of Computer Science & Engineering at SVCET,Chittoor on 9th & 10th April 2010

7) National Conference on "*Network Technologies(NCNT'09)*" presented a paper titled "**A Survey on Social Network Analysis**" Organized by Department of Computer Science & Engineering at SVCET,Chittoor on 29th December, 2009.

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DETAILS OF WORKSHOPS & SEMINARS

Organized

1) Workshop on "*LINUX*"   was organized at SVCET, Chittoor(AP) with help from Spoken Tutorial Project, Developed by IIT Bombay, Funded by NMEICT, MHRD and Govt. of India on **26-SEP-2014.**
2) Workshop on "*PHP and MySQL*"   was organized at SVCET, Chittoor(AP) with help from Spoken Tutorial Project, Developed by IIT Bombay, Funded by NMEICT, MHRD and Govt. of India on **10-JUN-2014.**
3) Workshop on "*C and C++*"   was organized at SVCET, Chittoor(AP) with help from Spoken Tutorial Project, Developed by IIT Bombay, Funded by NMEICT, MHRD and Govt. of India on **03-APR-2014.**

Participated

1) One day Webinar on "AI with ML" organized by Department of MCA, SVCET in association with career mudra on 30th May 2020
2) Five Day Workshop on "Accelerating Industry 4.0 - A Post Covid Paradigm" organized by ICT Academy-Skycampus , During 25th to 29th May 2020
   a. Day1 - A Post Covid Paradigm
   b. Day2 - A Learning & Development Perspective
   c. Day3 - Impact of Artificial Intelligence and Cognitive Computing
   d. Day4 - Discover the Dimond in you
   e. Day5 - Catching the cyber virus
3) Two days Webinar on "Outcome Based Education and Curriculum Development", organized by IQAC, Auxilium College (Autonomous), Katapadi, during 15th and 16th May 2020
4) Seven Days online workshop on "NAAC Awareness program for Faculty", Organized by Marthwada Mitra Mandal Institute of Technology, Pune , During 8th to 14th May 2020
5) Four Days online workshop on "Examinations Reforms", Organized by AICTE, During 22nd to 25th April 2020
6) wo day workshop on "*Out Come Based Education (OBE)*" organized by SVCET 6th & 7th December 2019.
7) Five day national workshop on "*Machine Learning Approaches on Medical Images for clinical Psychology and Health Care Applications", organized by SCOPE,VIT Vellore 6th to 10th May 2019*
8) Two day workshop on "*Machine Learning on Image Processing and its Application using MATLAB"*, organized by SCOPE, VIT, Vellore, 17th & 18th August 2018
9) One day Workshop on "*BIG DATA AND COMPUTATIONAL BIOLOGY*" on 10th September 2016 at VIT University Vellore.
10) Ten days Workshop on "*BIG DATA ANALYTICS*" organized by Department of ECE , SVCET-Chittoor, sponsored by Department of Science & Technology during 09h to 18th June, 2016.
11) Two days National Seminar on "**CLOUD COMPUTING & BIG DATA(CCBD'15)**" organized by Department of CSE , SVCET-Chittoor, during 28th & 29th April, 2015.

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12) One day International Workshop on "**Advanced MATLAB Programming in Electrical and Electronics Engineering (AMPEEE-2014)**" organized at SVCET, Chittoor On 21st August 2014.

13) Two days workshop on "Free Open Source Software – Self Learning (Java & Linux) " organized by department of MCA, SVCET, Chittoor on 29th & 30th January, 2014.

14) One day workshop on "**Cloud Computing-TECHSOCS2**" Organized by Computer Science Department at Saraswathi Velu College of Engineering on 29th January, 2014.

15) Two days workshop on "*Free Open Source Software – Self Learning (Java & Linux)* " organized by department of MCA, SVCET, Chittoor on 29th & 30th January, 2014.

16) Two days National workshop on "**Advanced Computing Concepts**" , Sponsored by AICTE, Organized by Department of CSE, SVCET-Chittoor on 13th & 14th March 2009.

17) One day workshop on "*VLSI Design & Embedded Systems*" Organized by department ECE at SVCET-Chittoor on 18th July 2008.

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DETAILS OF FACULTY DEVELOPMENT PROGRAMME

Participated

1) AICTE Sponsored Six Day STTP on "**Statistical Research and its Application in Pharmaceutical Research**", Organized by Sri Venkateswara College of Pharmacy, Chittoor, During 20th to 25th September 2021.
2) DST Sponsored FDP on "**Big Data and Analytics",** Organized by Department of ECE,SVCET, Chittoor , During 9th June 2016 to 18th June 2016.
3) AICTE Sponsored FDP on "*NANOTECHNOLOGY & MEMS*" organized by Department of ECE, SVCET-Chittoor, During 18th May 2015 to 30th May 2015
4) Three days FDP through IBM Seed Program on **"Rational Quality Manager & Rational Functional Tester**", Organized by SVCET, Chittoor, During 19th to 21st October 2014
5) Two Days FDP program conducted by SVCET, Chittoor on " *Being an effective Team Player*" and "*Effective Presentation Skills required by Teachers*" on 2nd & 3rd August, 2014
6) One day FDP program conducted on "*New Computing Architecture*" by **CSI Chapter SVCET-Chittoor** in Collaboration with **TCS** on 10th January 2009.
7) Two days FDP program conducted by **IBM Academic Initiative** on "*Rational Rose*" at SVCET, Chittoor(A.P) from 27th & 28th June, 2008.
8) Two days FDP program conducted by L&T Infotech on "**ENABLIG THE GURU**" at Bangalore during 5th & 6th February, 2008.
9) Six Days FDP program on "*Instructional Design and Delivery*" by NITTTR-Chennai at SVCET during 03rd December, 2007 to 08th December, 2007.
10) Three days FDP program conducted by **IBM Academic Initiative** on "*Web Technologies*" at SVCET, Chittoor(A.P) from 24-SEP-2007 to 26-SEP-2007.

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DETAILS OF CERTIFICATIONS

1) Certificate on "Python Code Challenges" by Linkedin Learning on 5th June 2022
2) Certificate on "Python for Everybody" , offered by University of MICHIGAN in Coursera, Completed on 5th August 2020
3) Certificate on Guided project on "Neural Network from Scratch in Tensorflow" by Coursera on 2nd June 2020
4) Certificate on "Machine Learning with python" , offered by IBM in Coursera, Completed on 20th May 2020
5) Certificate on "Data Analytics with python" , offered by IBM in Coursera, Completed on 14th May 2020
6) Certificate on "Capstone: Retrieving, Processing and Visualizing Data with Python" , offered by University of MICHIGAN in Coursera, Completed on 8th May 2020
7) Certificate on "AI for Everyone" , offered by deeplearning.ai in Coursera, Completed on 7th May 2020
8) Certificate on "Using Database with Python" , offered by University of MICHIGAN in Coursera, Completed on 5th May 2020
9) Certificate on "Programming for Everybody(Getting Started with python)" , offered by University of MICHIGAN in Coursera, Completed on 18th April 2020
10) Certificate on "Python Data Structure" , offered by University of MICHIGAN in Coursera, Completed on 19th April 2020
11) Certificate on "Using Python to Access Web Data" , offered by University of MICHIGAN in Coursera, Completed on 30th April 2020
12) Certificate on "Python for Genomic Data Science" , offered by Jhons Hopkins University in Coursera, Completed on 25th September 2016
13) Honor Code Certificate on "**15.071x: The Analytics Edge**" a course of study offered by **MITx**, an online learning initiative of **The Massachusetts Institute of Technology** through **edX**. Issued May 28, 2015, Verify the authenticity of this certificate at **https://verify.edx.org/cert/1d35e0c915064e08ba783a4ecac7d413**
14) Honor Code Certificate on "**Programming for Everybody (Python)**" a course of study offered by online learning initiative of **University of Michigan School of Information** through **Coursera**. Introduces students to the Python programming language and studies how Python can be used to do data analysis. Issued May 07, 2015
15) Achievement Badge with the score (79.6%) on "Pattern Discovery in Data mining " a course of study offered by online learning initiative of **University of ILLINOIS at Urbana-Champaign** through **Coursera.** Issued April 1st , 2015
16) Online Certification on "***Big Data for Better Performance***" @ **open2study** ,**Open University Australia** issued on 10th March 2015.
17) Honor Code Certificate on "**R Programming**" a course of study offered by online learning initiative of **JOHNS HOPKINS UNIVERSITY** through **Coursera**. This course covers how to use

& program in R for effective data analysis. It covers practical issues in statistical computing: programming in R, reading data into R, accessing R packages, writing R functions, debugging, profiling R code, & organizing and commenting R code. Issued February 12th , 2015

18) Honor Code Certificate on "**CS50x: Introduction to Computer Science**" a course of study offered by **HarvardX,** an online learning initiative of **Harvard University** through **edX** Issued December 31st, 2014, Verify the authenticity of this certificate at **https://verify.edx.org/cert/2ef40a0e6fa54fc4815ad423ecbb4877**

19) Certified by **IBM SEED Program** on "*Rational Quality Manager & Rational Functional Tester*" conducted at SVCET, Chittoor(A.P) during 19th October 2014 to 21st October, 2014.

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DETAILS OF CERTIFICATION OF APPRECIATION

1) Outstanding Teaching Performance in the academic year 2019-20 at SVCET, Chittoor.
2) Certification of appreciation for instrumental role as SPOC for the NPTEL Local Chapter during January-April 2020.
3) Outstanding Teaching Performance in the academic year 2018-19 at SVCET, Chittoor.
4) Certification of appreciation for instrumental role as SPOC for the NPTEL Local Chapter during July-Dec 2019.
5) Certification of appreciation for instrumental role as SPOC for the SWAYAM-NPTEL Local Chapter during July-Oct 2018.
6) Certification of appreciation for instrumental role as SPOC for the NPTEL Local Chapter during July-Dec 2017.
7) Certification of appreciation for instrumental role as SPOC for the NPTEL Local Chapter during July-Dec 2016.
8) Outstanding Teaching Performance in the academic year 2014-15 at SVCET, Chittoor.