

|   |  |   |
|---|--|---|
|  | <p><b>JSS Mahavidyapeetha</b><br/> <b>JSS Academy of Technical Education</b><br/> <b>Department of Computer Science &amp; Engineering</b><br/> www.jssaten.ac.in</p> |  |
|---|--|---|

## FACULTY PROFILE

### 1. Personal Details

|                              |                               |
|------------------------------|-------------------------------|
| NAME                         | <b>Dr. Kakoli Banerjee</b>    |
| DEPARTMENT                   | CSE                           |
| DESIGNATION                  | Associate Professor           |
| PHONE                        | 9871807851                    |
| EMAIL ID                     | Kakoli.banerjee@jssaten.ac.in |
| Date of Joining<br>(JSSATEN) | 23/08/2004                    |



### 2. Experience

|                           |                    |             |                    |
|---------------------------|--------------------|-------------|--------------------|
| Total Experience in Years | Teaching: 18 Years | Industry: 3 | Research: 18 Years |
|---------------------------|--------------------|-------------|--------------------|

### 3. Qualifications

| COURSES | SPECIALIZATION                   | Year of Award | INSTITUTION   | UNIVERSITY  |
|---------|----------------------------------|---------------|---|---|
| B.Tech  | Computer Science and Engineering | 2002          | Institute of Engineering and Technology                   | Institute of Engineering and Technology                   |
| M.Tech. | Software Engineering             | 2004          | Motilal Nehru National Institute of Technology, Allahabad | Motilal Nehru National Institute of Technology, Allahabad |

|       |                                  |      |                                |                                |
|-------|----------------------------------|------|--------------------------------|--------------------------------|
| Ph.D. | Computer Science and Engineering | 2018 | Shobhit University, Saharanpur | Shobhit University, Saharanpur |
|-------|----------------------------------|------|--------------------------------|--------------------------------|

#### 4. Research & Publications

|   |  |             |
|---|--|-------------|
| Papers Published in Web of Science indexed Journals | <b>International:2</b>   | National: 0 |
| Papers Published in SCOPUS indexed Journals         | <b>International:8</b>   | National: 0 |
| Papers Published in other Journals                  | <b>International: 8</b>  | National:2  |
| Papers Presented in Conferences / Symposium         | <b>International :8</b>  | National: 0 |
| Books / Book chapters Published                     | <b>2</b><br>Name of the book: Industry 4.0,AI, and Data Science: Research Trends and Challenges<br>Publisher: Taylor & Francis (CRC Press)<br>Year of Publication: 2021<br><br><b>UPCOMMING</b><br>Name of the book: Decision Analytics for Sustainable Development in Smart Society 5.0<br>Publisher: SPRINGER<br>Year of Publication: 2021 |             |

#### 5. Research Guidance

|                                    |            |  |
|------------------------------------|------------|--|
| PhD Guide? Give field & University | <b>Nil</b> | NIL  |
| PhDs / Projects Guided             | <b>Nil</b> | Projects at Master's Level: 7<br>Projects at Bachelor's Level: 35+ |

## 6. Grants

### i. Funds Received (Projects)

| Project Name  | Grant Amount | Date of receiving the Grant | Duration | Grant issuing authority/ Body / Organization |
|---|--------------|-----------------------------|----------|--|
| Received Rs.3 Lacks under Collaborative Research and Innovation Research (CRIP) Scheme of AKTU, Lucknow, for the Project, “Automated Groundwater Risk Assessment for Gautam Buddha Nagar District, Uttar Pradesh” | Rs.3 Lacks   | 04/04/2019                  | 1 Year   | AKTU, Lucknow,                               |

### ii. Patents

| Sl. No. | Title Details   | Details of award of patent / Filed            |
|---------|---|---|
| 1       | Smart Dustbin- Sanitation & Solid-Liquid Waste Management                 | Patent No. 202011000793 dated: 03.02.2020     |
| 2       | Reduce, Re-Cycle and Reuse (RRR) IoT Intelligence Waste Management System | Patent No. 202111001043<br>Awarded 31/08/2021 |

### iii. Consultancy

| Title of the work | Amount in Rs. | Date of receiving the Grant | Duration | Grant issuing authority/ Body / Organization |
|-------------------|---------------|-----------------------------|----------|--|
| Nil               | --            | -                           | -        | -  |

## 7. Awards Received

|   |   |
|---|---|
| <p><b>Awards</b><br/> <b>“Best Paper Award”</b></p> | <p>[1] Paper presented in <b>37th Annual National Conference of IABMS</b> on “Current Advances in Integrated Biomedicine for Health Care”, Shobhit University, Meerut, “<b>Inter Chromosomal</b> similarity based DNA sequence compression algorithm”, 6th November 2016, Kakoli Banerjee, Dr. R. Prasad.</p> <p><i>This paper got the "Best Speaker Award". The paper has been selected for publication in journal named, Biomedicine by Indian Association of Biomedical Scientists, (which is a Scopus indexed journal.)</i></p> <p>[2] Presented paper on “Improvement over LZW for Better Text Compression and Retrieval” in ICCII-2005. This paper got the "Best Speaker Award".</p> <p>[3] Won merit certificate in the Science Talent Search Examination in 1994.</p> <p>[4] Won Ajoy Basu Gold Medal for best Academic performance for the year 2001 by the Bengali Welfare Association, Allahabad.</p> <p>[5] Won All India second position in creative writing organized by All India Society for Technical Education.</p> |
|---|---|

## 8. Publications

### i. International Journals

| Sl. No. | Title of the paper                                | Name(s) of Author(s)  | Name of the Journal                                      | Volume No. Issue No. Year                      | WOS / Scopus / Both | Impact Factor | Publisher  |
|---------|---|---|--|--|---------------------|---------------|--|
| 1       | Stress Analysis Using Machine Learning Techniques | Tanvi Sharma, Dr. Kakoli Banerjee, Sonali Mathur, and Dr. Vikram Bali | International Journal of Advanced Science and Technology | Vol. 29, No. 3, pp. 14654 – 14665. August 2020 | Scopus              | 0.091         | Science and Engineering Research Support Society |

|   |   |  |  |  |              |       |  |
|---|---|--|--|--|--------------|-------|--|
| 2 | A Novel Approach for Depression Detection from Speech using MFCC and Machine Learning Algorithm           | Tanvi Sharma, Dr. Kakoli Banerjee, Sonali Mathur | International Journal of Advanced Science and Technology     | Vol. 29, No. 5, (2020), pp. 14277 – 14291        | Scopus       | 0.091 | Science and Engineering Research Support Society |
| 3 | An Evaluation Of Machine Learning Techniques In Predicting Depression Using Motion And Facial Expressions | Tanvi Sharma, Dr. Kakoli Banerjee, Sonali Mathur | JETIR  | August 2020, Volume 7, Issue 8.                  | UGC Approved | 7.95  | IJ Publication                                   |
| 4 | Design and Development of Bioinformatics Feature Based DNA Sequence Data Compression Algorithm            | Dr. Kakoli Banerjee and Dr. Vikram Bali          | EAI Endorsed Transactions on Pervasive Health and Technology | 23 April 2020, doi: 10.4108/eai.13-7-2018.164097 | Scopus       | 0.89  | European Union Digital Library                   |
| 5 | A Survey on Fatigue Detection of Workers using  | Nisha Yadav, Dr. Kakoli Banerjee and Dr.         | International Journal of E-Health and Medical                | Volume 11, Issue 3, Feb 2020                     | WoS & Scopus | 0.86  | IGI Global                                       |

|          |   |  |  |                                 |              |       |                 |
|----------|---|--|--|---------------------------------|--------------|-------|-----------------|
|          | Machine Learning  | Vikram Bali  | Communications   |                                 |              |       |                 |
| <b>6</b> | Fatigue Detection of Workers using Supervised Learning  | Nisha Yadav, Dr. Kakoli Banerjee and Dr. Vikram Bali   | Biological Forum   | 11(1): 236-242, June 2019       | WoS          | 0.167 | Research Trends |
| <b>7</b> | Railway Track Management System based on IoT devices and Software Application facilitating touch user interface | Dr. Kakoli Banerjee, Saurabh Ranjan, Naman Jain, Aayush Jaiswal, Harshit Verma, Divya Khanna, Prateek Mittal, Prakhar P. Bhardawaj | Journal of Emerging Technologies and Innovative Research | Volume 6, Issue 6, June 2019    | UGC Approved | 7.95  | IJ Publication  |
| <b>8</b> | DNA Compression Algorithm – using Inter Vs Intra Chromosomal Repeats  | Kakoli Banerjee, Dr. D. V. Rai   | International Journal of Theoretical & Applied Sciences  | 2018. Vol. 9, no. 2, p. 269-273 | UGC Approved | 4.630 | Research Trends |

|           |   |   |  |   |              |       |  |
|-----------|---|---|--|---|--------------|-------|--|
| <b>9</b>  | New Method for Inter Chromosomal Sequence Compression   | Kakoli Banerjee, Dr. R. A. Prasad                                     | International Journal of Engineering Technology, Management and Applied Sciences | 2015. Vol. Volume 3, no. Issue 5, ISSN 2349 – 4476, p. 188-193. | UGC Approved | 6.246 | Journal of Engineering Technology, Management and Applied Sciences |
| <b>10</b> | A new technique in reference based DNA sequence compression algorithm: Enabling partial decompression | Kakoli Banerjee, And Dr. R. A. Prasad                                 | American Institute of Physics  | 2014. DOI 10.1063/1.4897853.                                    | Scopus       | 1.703 | AIP Publishing LLC   |
| <b>11</b> | Exact Repeat Based Intra Chromosomal DNA Compression Algorithm  | KAKOLI BANERJEE, And DR. R. A. PRASAD                                 | International Journal of Multidisciplinary Research”, ISSN: 2250-0561            | 2013. Vol. 1, no. 3, p. 259-270                                 | UGC Approved | 5.25  | GLIMPSES - Ruminations Literary and Cultural Society Regd          |
| <b>12</b> | Stress Analysis Using Machine Learning Techniques   | Tanvi Sharma, Dr. Kakoli Banerjee, Sonali Mathur, and Dr. Vikram Bali | International Journal of Advanced Science and Technology                         | August 2020, Vol. 29, No. 3, pp. 14654 – 14665.                 | Scopus       | 0.091 | Science and Engineering Research Support Society                   |

## ii. National Journals

| Sl. No. | Title of the paper | Name(s) of Author(s) | Name of the Journal | Volume No. Issue No. Year | WOS / Scopus / Both | Impact Factor | Publisher |
|---------|--------------------|----------------------|---------------------|---------------------------|---------------------|---------------|-----------|
| Nil     | -                  | -                    | -                   | -                         | -                   | -             | -         |

## iii. Conferences

| Sl. No. | Title of the paper   | Name(s) of Author(s)                              | Name of the Conference  | Volume No. Issue No. Year  | WOS / Scopus | Impact Factor | Publisher |
|---------|--|---|---|--|--------------|---------------|-----------|
| 1       | Analysis of Groundwater quality using GIS Based water quality index in Noida, Gautam Buddh Nagar, Uttar Pradesh (U.P), India | Dr. Kakoli Banerjee, Santhosh Kumar M B, Tilak LN | ICAAAIML-2020- International Conference on Advances and Applications of Artificial Intelligence & Machine Learning held on 29th – 30th October, 2020 at Sharda University, Noida, India | Published in Springer prestigious Lecture Notes in Electrical Engineering series. 2020 | Scopus       | -             | Springer  |



|   |   |  |  |   |        |   |          |
|---|---|--|--|---|--------|---|----------|
| 2 | Delineation of potential groundwater zones using Analytical hierarchy process (AHP) for Gautham Buddha Nagar District, Uttar Pradesh, India | Dr. Kakoli Banerjee, Santhosh Kumar M B, Tilak L N | iCADMA 2020 held and organized by MNIT Jaipur during November 05-06, 2020.                         | Published in "SPRINGER: MATERIALS TODAY"                      | Scopus | - | Springer |
| 3 | Reference based inter chromosomal similarity-based DNA sequence compression algorithm.  | Kakoli Banerjee, And Dr. R. A. Prasad              | International Conference on Computing, Communication and Automation (ICCCA).                       | 2017.<br>DOI 10.1109/ccaa.2017.8229806. IEEE (SCOPUS INDEXED) | Scopus | - | IEEE     |
| 4 | Inter Chromosomal similarity based DNA sequence compression algorithm   | Kakoli Banerjee, Dr. R. Prasad.                    | 37th Annual National Conference of IABMS on "Current Advances in Integrated Biomedicine for Health | 2016  | Scopus | - | IEEE     |

|   |  |                    |                                      |   |        |   |      |
|---|--|--------------------|--------------------------------------|---|--------|---|------|
|   |  |                    | Care”,Shobhit<br>University, Meerut. |   |        |   |      |
| 5 | Improvement over<br>LZW for<br>Better Text<br>Compression and<br>Retrieval | Kakoli<br>Banerjee | ICCII-2005                           | Paper also published in the<br>conference proceedings | Scopus | - | IEEE |

#### iv. Workshops /Conferences Attended

| Name of the workshop / Conference   | Organizer                                       | Date                                |
|---|---|-------------------------------------|
| One-week FDP on Addressing Livability in a Post<br>Pandemic World   | Amity University,<br>Kolkata                    | One week<br>14.07.2021-20.07.2021   |
| One-week FDP on Operations Management: Developing<br>New perspective in the era of AI/ML                                | MIT, Merrut                                     | One week<br>30.05.2020-04.06.2020   |
| One-week FDP on Applications of Machine Learning<br>and Deep Learning   | RKGIT   | One week<br>24.06.2020- 28.06.2020  |
| Six days National workshop on “Intellectual Property<br>Rights”   | JSS Academy of<br>Technical<br>Education, Noida | One week<br>01.03.2020 - 06.03.2020 |
| AICTE sponsored three, one week online Short-Term<br>Training Programs (STTP) on "Computer Forensics &<br>Cyber Crime". | JSS Academy of<br>Technical<br>Education, Noida | One week<br>23.11.2020-28.11.2020.  |
| AICTE sponsored three, one week online Short-Term<br>Training Programs (STTP) on "Computer Forensics &<br>Cyber Crime". | JSS Academy of<br>Technical<br>Education, Noida | One week<br>07.12.2020-12.12.2020   |
| AICTE sponsored three, one week online Short-Term<br>Training Programs (STTP) on "Computer Forensics &<br>Cyber Crime". | JSS Academy of<br>Technical<br>Education, Noida | One week<br>14.12.2020-19.12.2020   |

|   |   |  |
|---|---|--|
| Global E-Symposium on “Global Pandemic Outbreak: Role of Technology & Automation”                       | JSS Academy of Technical Education, Noida                               | One week<br>01.06.2020 – 05.06.2020                          |
| Faculty Development Program on "Transforming Education with Industry 4.0"                               | Jaypee University of Information Technology, Wagnaghat Solan, HP, India | One week<br>15.06.2020 -20.06.2020                           |
| Faculty Development Program on "Digital Learning with Multidisciplinary Approaches (DLMA)               | JSS Academy of Technical Education, Noida                               | One week<br>12.06.2020 -17.06.2020                           |
| Faculty Development Programme on RECENT ADVANCES IN COMPUTER SCIENCE AND ALLIED DOMAINS (RACSAD 2020)   | Sharda University, Greater Noida.                                       | One week<br>08.06.2020 -12.06.2020                           |
| International webinar on Qualitative Research, Blogs Writing and Neuro Science in outbreak of COVID-19" | JSS Academy of Technical Education Noida                                | Three Days<br>20.05.2020 – 22.05.2020                        |
| Two week online Faculty Development Programme on "Python"   | JSS Academy of Technical Education Noida                                | 22.06.2020 – 04.07.2020                                      |
| Internet of Things through ICT  | JSS Academy of Technical Education, Noida                               | One week<br>06-10 <sup>th</sup> August, 2018.                |
| Soft-Computing : Techniques, Tools and Applications   | JSS Academy of Technical Education, Noida                               | One week<br>11-15 <sup>th</sup> June, 2018.                  |
| Application of GIS and RS in Civil Engg(One week FDP)   | JSS Academy of Technical Education, Noida                               | One week<br>11-15 <sup>th</sup> June, 2018.                  |
| ICT Based course on Scilab Programming (One week FDP)   | JSS Academy of Technical Education, Noida                               | One week<br>21 <sup>st</sup> Aug - 25 <sup>th</sup> Aug 2017 |

|  |  |   |
|--|--|---|
| Machine Learning and its applications in Text and Image Analytics(One week FDP)                              | JSS Academy of Technical Education, Noida                      | One week<br>30 <sup>th</sup> Jan-3 <sup>rd</sup> February 2017  |
| ICT Based course on Cloud Computing (One week FDP)   | JSS Academy of Technical Education, Noida                      | One week<br>5 <sup>th</sup> June-9 <sup>th</sup> December 2016  |
| ICT Based course on Wireless Networks (One week FDP)   | JSS Academy of Technical Education, Noida                      | One week<br>2 <sup>th</sup> May-6 <sup>th</sup> May 2016  |
| Emerging Trends in Computing Education (One week FDP)  | Jaypee Institute of Information Technology, Noida              | One week<br>6 <sup>th</sup> July-11 <sup>th</sup> July 2015   |
| Technical Teacher's Role, Self-Esteem, Motivation and Professionalism Development through ICT (One week FDP) | JSS Academy of Technical Education, Noida                      | One week<br>8 <sup>th</sup> June-12 <sup>th</sup> June 2015   |
| Workshop on Soft Computing and Application (SCA' 14) (Three Days workshop)                                   | JSS Academy of Technical Education, Noida                      | Three Days<br>2 <sup>nd</sup> Sep - 4 <sup>th</sup> Sep 2014  |
| Pedagogy for Effective use of ICT in Engineering Education( Two weeks ISTE Workshop)                         | MGM College of Engineering and Technology, Noida (RCID - 1205) | Two Weeks<br>08 <sup>th</sup> Jan –18 <sup>th</sup> Jan 2014 and<br>22 <sup>nd</sup> Jan – 31 <sup>st</sup> Jan 2014<br>05 <sup>th</sup> Jan –07 <sup>th</sup> Jan 2014 and<br>19 <sup>th</sup> Jan – 21 <sup>st</sup> Jan 2014 |
| Computer Networking ( Two weeks ISTE Workshop)   | MGM College of Engineering and Technology, Noida (RCID - 1205) | Two Weeks<br>28 <sup>th</sup> May – 29 <sup>th</sup> June2014<br>30 <sup>th</sup> June – 05 <sup>th</sup> July 2014   |

|  |   |        |
|--|---|--------|
| Training on GIS                        | ESRI, New Delhi<br>Head Office                  | 1 Day  |
| Trained on DB2 by IBM                  | JSS Academy of<br>Technical<br>Education, Noida | 5 Days |
| Trained on Maya 8.5 by MAAC            | JSS Academy of<br>Technical<br>Education, Noida | 3 Days |
| Trained on .NET Framework by Microsoft | UPTU, Noida                                     | 1 Day  |
| Trained on SciLab                      | JSS Academy of<br>Technical<br>Education, Noida | 1Day   |

**v. Workshops / Conference (Organized)**

| <b>Sl. No.</b> | <b>Name of the workshop / Conference</b>   | <b>Organized by</b> | <b>Date</b>         | <b>Role</b>              |
|----------------|--|---------------------|---------------------|--------------------------|
| 1              | National Conference on Recent Innovations in Computing Technologies (NCRICT-2021)  | JSSATEN             | 28 Sep<br>2021      | Co-Chair                 |
| 2              | The International Conference on Intelligent Control and Computation for Smart Energy and Mechatronics Systems  | JSSATEN             | 25 - 26 Sep<br>2020 | Publication<br>Committee |
| 3              | CCIP 2015. The CCIP 2015 is the first international conference on cognitive computing and information processing domain being held in In.dia. This conference was held in JSS Academy Of Technical | IEEE                | 3-4 March<br>2015   | Publication<br>Committee |

|   |   |                              |                                |                         |
|---|---|------------------------------|--------------------------------|-------------------------|
|   | Education, Noida, Uttar Pradesh.<br>Technically Co-Sponsored By<br>IEEE UP Section (Conference<br>#35256) |                              |                                |                         |
| 4 | FDP on Soft Computing:<br>Techniques, Tools and<br>Applications   | JSSATEN (TEQIP-III)          | 11.06.2018<br>to<br>15.06.2018 | FDP<br>Coordinator      |
| 5 | 5-Day STTP on "Computer<br>Forensics & Cyber Crime  | JSSATEN (AICTE<br>sponsored) | 23.11.2020<br>to<br>28.11.2020 | STTP<br>Coordinator     |
| 6 | 5-Day STTP on "Computer<br>Forensics & Cyber Crime  | JSSATEN (AICTE<br>sponsored) | 07.12.2020<br>to<br>12.12.2020 | STTP<br>Coordinator     |
| 7 | 5-Day STTP on "Computer<br>Forensics & Cyber Crime  | JSSATEN (AICTE<br>sponsored) | 14.12.2020<br>to<br>19.12.2020 | STTP<br>Coordinator     |
| 8 | Global Pandemic Outbreak:<br>Role of Technology &<br>Automation   | JSSATEN                      | 01.06.2020<br>to<br>05.06.2020 | STTP<br>Coordinator     |
| 9 | FDP on Soft Computing:<br>Techniques, Tools and<br>Applications   | JSSATEN (TEQIP-III)          | 11.06.2018<br>to<br>15.06.2018 | Organizing<br>Committee |

vi. **Conference Attended (those sponsored by AICTE / ISTE /IETE /TEQIP or any other sponsoring body)**

| Sl. No. | Name of the workshop / Conference | Organizer        | Date                    |
|---------|-----------------------------------|------------------|-------------------------|
| 1       | ICCSEMS-2020                      | JSSATE,<br>Noida | 25.09.2020 – 26.09.2020 |
| 2       | CCIP 2015                         | JSSATE,<br>Noida | 3-4 March 2015          |

**9. Details of NPTEL / COURSERA courses completed**

| Sl. No. | Name of the subject                                    | Organized by | Date of completion / Award | Grade / Marks |
|---------|--|--------------|----------------------------|---------------|
| 1       | Effective Engineering Teaching in Practice             | NPTEL        | 2020                       | 88%           |
| 2       | NBA Accreditation and teaching-learning in Engineering | NPTEL        | 2020                       | 92%           |

### 10.Membership of Professional Bodies:

|   |
|---|
| 1. Institute of Electrical and Electronics Engineers (IEEE) |
| 2. Indian Society for Technical Education (ISTE)            |

### 11.Any other information you will like to share about your professional experience

- Coordinator of AICTE sponsored three, one week online Short-Term Training Programs (STTP) on "Computer Forensics & Cyber Crime". It was a series of three Online Short Term Training Programmes sponsored by AICTE. The first STTP was from 23.11.2020-28.11.2020.
- Coordinator of AICTE sponsored three, one week online Short-Term Training Programs (STTP) on "Computer Forensics & Cyber Crime". It was a series of three Online Short Term Training Programmes sponsored by AICTE. The first STTP was from 07.12.2020-12.12.2020.
- Coordinator of AICTE sponsored three, one week online Short-Term Training Programs (STTP) on "Computer Forensics & Cyber Crime". It was a series of three Online Short Term Training Programmes sponsored by AICTE. The first STTP was from 14.12.2020-19.12.2020.
- Coordinator of Day 5 - Global E-Symposium on "Global Pandemic Outbreak: Role of Technology & Automation" from 1st June, 2020 to 5th June, 2020.
- Organizing Member of (TEQIP-III) 5- Day FDP on "Soft-Computing: Techniques, Tools & Applications" sponsored by Dr. A.P.J. Abdul Kalam Technical University, Lucknow, from 11.06.2018 to 15.06.2018 at JSS Academy of Technical Education, Noida.
- Working as Guest Editor of the Special issue on Impact of Democratization of DARQ Technologies and Data Policing on Information Retrieval in International Journal of Information Retrieval Research (IJIRR) (IGI Global)

- Published Book on "Industry 4.0: Research Trends, Challenges and Future of AI in Data Science", CRC Press, Taylor & Francis Group. (Under Publication) HB ISBN# 978-0-367-56285-4, EB ISBN# 978-1-003-09718-1, PB ISBN# 978-0-367-56291-5
- Working as Book Editor for **Springer** Book "Decision Analytics for Sustainable Development in Smart Society 5.0", Springer Nature. (Under Process)
- Session Chair for International Conference on Intelligent Control and Computation for Smart Energy and Mechatronics Systems (ICCSEMS-2020) held on 25th-26th September 2020.
- Session Chair for International Conference on Applied Scientific Computational Intelligence using Data Science (ASCI-2020) Organized by Department of Computer Applications, Manipal University Jaipur, India held online on 22-23 December 2020.
- **Reviewer of Conferences** : ICI2C-2021: International Conference on Industrial Instrumentation & Control 2021
- **Reviewer of Conferences** : ICIPTM-2021: International Conference on Innovative Practices in Technology and Management 2021
- **Reviewer of Conferences** : Confluence-2021:11th International Conference on Cloud Computing, Data Science & Engineering 2021
- **Reviewer of Conferences** : ICCIS-2021: International Conference on Computing, Communication, and Intelligent Systems 2021
- **Reviewer of Conferences** : ICCAKM – 2021: 2nd International Conference on Computation, Automation and Knowledge Management 2021
- **Reviewer of Conferences** : ICIEM-2021: 2ND International Conference on Intelligent Engineering and Management 2021
- **Reviewer of Conferences** : ICCSEMS-2020: The International Conference on Intelligent Control and Computation for Smart Energy and Mechatronics Systems 2020 ETC.