

Name : Dr. (Mrs.) P.AMUDHA
Designation : Professor
Address (Official) : Department of Computer Science and Engineering,
 School of Engineering
 Avinashilingam Institute for Home Science and Higher Education for Women
 Coimbatore – 641 108.
Mobile No. : 9025636594
E-Mail id : amudharul@gmail.com / amudha_cse@avinuty.ac.in

Book Chapter

| <u>Publication Year : 2019</u> | | | | | |
|---------------------------------------|------------------------|---|---|-----------------------|--|
| 1. | P.Amudha, S.Sivakumari | Machine and Deep Learning Applications for Cyber Security | Hybridization of Machine Learning Algorithm in Intrusion Detection System | ISBN13: 9781522596110 | IGI Global: International Publisher of Information Science and Research, USA, 2019 |

Publication Year : 2016

| S.No. | Authors | Title of the Book | Paper title | ISBN no./pp.no. | Publisher & Year |
|-------|---|--|---|----------------------------------|---|
| 2. | P.Amudha, S.Karthik, S.Sivakumari | Handbook on Information Technology | Intrusion Detection Using Modified Artificial Bee Colony with Feature Subsets | 978-93-84443-46-7 pp. 173-182 | Research India Publications, Delhi, India, 2016 |
| 3. | R.PraveenaPriyadarsini,P.Amudha, S.Sivakumari | Digital Connectivity – Social Impact. Series: Communications in Computer and Information Science | Enhanced ℓ – Diversity Algorithm for Privacy Preserving Data Mining | 978-981-10-3273-8 vol. 679 | Springer, Singapore, 2016 |

Book Published

Publication Year : 2020

1. P.Amudha, S.Sivakumari, Classification Techniques for Intrusion Detection, Notion Press, 2ISBN: 9781648285820, 2020

Publication Year : 2019

1. P.Amudha, S.Sivakumari, Data LeakageDetection System, Lambert Academic Publishing, ISBN: 978-613-9-99886-9, 2019.

Publication Year : 2018

2. P.Amudha, Data Mining Approach for Intrusion Detection System, Lambert Academic Publishing, ISBN: 978-613-9-95273-1, 2018.

International Journal

Publication Year : 2020

| | | | | | | | |
|--|--|---|------|----|----|-----------|-----------|
| ShreeNandhini.P, P.Amudha , S.Sivakumari | International Journal of Innovative Technology and Exploring Engineering | Air Quality Prediction using Artificial Intelligence | 2020 | 9 | 5 | 1417-1420 | 2278-3075 |
| Vanitha.G P.Amudha S.Sivakumari | International Journal of Innovative Technology and Exploring Engineering | Congestion Control in wireless Sensor Networks using Artificial intelligence Techniques | 2020 | 9 | 5 | 1697-1699 | 2278-3075 |
| P.J.Niroshini, R.S.Subasree, P.Amudha , P.Sindhuja | International Journal of Scientific Research in Computer Science, Engineering and Information Technology | Architecture for Intelligent Animal Care and Management System | 2020 | 6 | 3 | 332-336 | 2456-3307 |
| B.Sabeena S.Sivakumari, P.Amudha | Journal of Advanced Research in Dynamical & Control Systems, | Kernel based Principal Component Analysis based Dimensionality Reduction and Fuzzy Convolution Long Short-term Memory based | 2020 | 12 | 07 | 269-283 | 1943-023X |

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| | | Convolutional Neural Network (FCLSTM-CNN) for Parkinson's Disease Classification | | | | | |
|--|--|--|--|--|--|--|--|

Publication Year : 2019

| | | | | | | | |
|---|---|--|------|---|---|------------|-----------|
| P.Amudha, S.Sivaranjani S.Sivakumari | Journal of Applied Science and Computations | Sentiment Analysis using Data Mining Technique | 2019 | 6 | 5 | 3659- 3665 | 1076-5131 |
|---|---|--|------|---|---|------------|-----------|

Publication Year : 2018

| | | | | | | | |
|--|--|--|------|-----|----|-----------|-----------|
| B.Marappa, M.S.Rudresha, R.B.BasavarajG.P. Darshan, B. DarukaPrasad, S.C.Sharma, S.Sivakumari, P.Amudha, H.Nagabhushana | Sensors and Actuators B: Chemical | EGCG assisted Y 2 O 3 :Eu 3+ nanopowders with 3D micro-architecture assemblies useful for latent finger print recognition and anti-counterfeiting applications | 2018 | 264 | - | 426-439 | 0925-4005 |
| R. Priyanka, P.Amudha | International Journal of Scientific Research in Computer Science, Engineering and Information Technology | Identifying Eye Fixation to Control the Mouse Operations Using Artificial Neural Network | 2018 | 3 | 3 | 968-977 | 2456-3307 |
| P.Amudha S.Sivakumari | International Journal of management, technology and Management | Disambiguating Technique for protecting data in social networks | 2018 | 8 | 11 | 2024-2029 | 2249-7455 |

Publication Year : 2017

| | | | | | | | |
|---|---|--|------|-----|---|---------|-----------|
| R,Keerthana, P.Amudha | South Asian Journal of Engineering and Technology | Privacy Preservation Data Mining : a Review | 2017 | 3 | 3 | 19-21 | 2454-9614 |
| B.S.Rohini, H.Nagabhushana G.P.Darshan, R.B.Basavaraj, S.C.Sharma, P.Amudha , M.Rahul, B.Daruka Prasad | Journal of Alloys and Compounds | Multifunctional applications of Self-assembled 3D CeO ₂ : Cr ³⁺ hierarchical structures synthesized via ultrasound assisted sonochemical route | 2017 | 724 | - | 897-909 | 0925-8388 |

Publication Year : 2016

| | | | | | | | |
|--|--|--|------|-----|----|---------|--------------------|
| P.Amudha , S.Karthik, S.Sivakumari | Indian Journal of Science and Technology | An Experimental Analysis of Hybrid Classification Approach for Intrusion Detection | 2016 | 9 | 13 | 1-8 | 0974-5645. |
| M.Saranya, P.Amudha | World Scientific News | Anti-Spoofing Method: A Survey on Biometric Face Recognition | 2016 | 41 | - | 107-113 | 2392-2192 |
| S.Bharanya, P.Amudha | World Scientific News, | A survey on Privacy Preserving Data Mining | 2016 | 41 | - | 82-90 | 2392 -2192 |
| R.PraveenaPriyadar sini, P.Amudha , S.Sivakumari | Digital Connectivity – Social Impact. CSI 2016. Communications in Computer and Information Science | Enhanced ℓ – Diversity Algorithm for Privacy Preserving Data Mining | 2016 | 679 | - | 14–23 | 978-981-10-3273-8, |
| P.Amudha , S.Sivakumari, R.PraveenaPriyadar sini | Intercontinental Journal of Marketing Research Review, | Technology Transfer: An effective approach to improve Health Industries | 2016 | 5 | 5 | 160-67 | 2347-1670 |

Publication Year : 2015

| Name of the authors | Name of the Journal | Title of the Paper | Publication year | Vol. | issue | Page no. | ISSN |
|--|---|---|-------------------------|-------------|--------------|-----------------|-------------|
| P.Amudha, S.Karthik, S. .Sivakumari | International Journal of Applied Engineering Research | An Intrusion Detection System using a proposed Feature Reduction Method and Support Vector Machine Classification | 2015 | 10 | 20 | 19191-19197 | 0973-4562 |
| P.Amudha, S.Karthik, S.Sivakumari | International Journal of Applied Engineering Research(ISSN:), pp. vol.10, no.41, 2015 | Intrusion Detection Based on Core Vector Machine and Ensemble Classification Methods | 2015 | 10 | 41 | 30306-30310 | 0973-4562 |
| P.Amudha, S.Karthik, S.Sivakumari | Scientific World Journal | A Hybrid Swarm Intelligence Algorithm for Intrusion Detection Using Significant Features | 2015 | | | 1-16 | 1537-744X |
| P.Amudha, S.Karthik, S.Sivakumari | International Journal of Applied Engineering Research (IJAER), vol.10, no.8, pp. ISSN : Nov, 2015 | Intrusion Detection Using Artificial Bee Colony with Reduced Features | 2015 | 10 | 8 | 21125-21138 | 0973-4562 |
| P.Amudha, S.Karthik, S.Sivakumari | ARPJN Journal of Engineering and Applied Sciences | Swarm Based Classifier Model Using Ensemble Feature Ranking Methods | 2015 | 10 | 18 | 8052-8059 | 1819-6608 |

International Conference

Publication Year : 2020

| | | |
|--|---|---|
| Amitha Mathew P.Amudha S.Sivakumari | Deep Learning : An Overview | International Conference on Advanced Machine Learning Technologies and Applications (AMLT-2020), February 13-15, 2020, Manipal University, Jaipur |
| P.Shreenandhini P.Amudha S.Sivakumari | Air Quality Prediction using Artificial Intelligence –A survey | International Conference on Modern Engineering Science and Technology, organized by Dr.Kalam Institute of Engineering Research at Ooty, 17.02.2020, |
| G.Vanitha P.Amudha S.Sivakumari | Congestion Control in Wireless Sensor Network using AI Techniques – A survey | International Conference on Modern Engineering Science and Technology, organized by Dr.Kalam Institute of Engineering Research at Ooty, 17.02.2020 |
| B.Sabeena S.Sivakumari P.Amudha | Technical Review on Various Approaches for Parkinson's Disease Classification | International Conference on Modern Engineering Science and Technology, organized by Dr.Kalam Institute of Engineering Research at Ooty 17.02.2020 |

Publication Year : 2019

| | | |
|--|--|---|
| P.Amudha S.Sivaranjani S.Sivakumari | Sentimental analysis using data mining technique | Intl. conference on “Emerging Trends in Wireless communications, signal processing and Networking, 07.03.19 and 08.03.19, ISBN: 978-93-88570-07-7 |
| S.Gayathri P.Amudha | A Software Defined Fog Node Based Distributed Block Chain Cloud Architecture For IOT | Intl. conference on “Emerging Trends in Wireless communications, signal processing and Networking, 07.03.19 and 08.03.19, pp.11, ISBN: 978-93-88570-07-7 |
| P.Shreenandhini P.Amudha S.Sivakumari | A Survey Paper on Spatial And Temporal Networks Model for Analysis Air Quality | International Conference on Innovations in Computer Science and Information Technology, 3 rd &4 th October,2019, ISBN:978-93-89105-21-6 |
| G.Vanitha P.Amudha S.Sivakumari | Working of Wireless and Mobile Networks-Survey | International Conference on Innovations in Computer Science and Information Technology, 3 rd &4 th October,2019, ISBN:978-93-89105-21-6 |

Publication Year : 2018

| | | |
|---------------------------------|---|--|
| P.Amudha S.Sivakumari | Impact of Social Media in Music Industry | International Conference on Dance, Music and Media in the 20th and 21st Centuries, on 6 th & 7 th February, 2018 |
| P.Amudha S.Sivakumari | Big data Analytics Using Support Vector Machine | IEEE International Conference of Soft Computing and Network Security (ICSNS) 14th -16th February 2018 |
| R.Priyanka P.Amudha | A Study on Video Instance Retrieval Techniques | International Conference on Intelligent Computing, Nano Science and Renewable Energy Sources on 08.03.2018 & 09.03.2018 |
| P.Amudha S.Sivakumari | Disambiguating Technique for protecting data in social networks | 2 nd International Conference on Emerging Trends in Science, Engineering & Management, pp.23-28, 2018 ISBN:978-93-87433 |

Publication Year : 2016

| | | |
|---|---|--|
| P.Amudha S.Sivakumari R.PraveenaPriyadarsi ni | Technology Transfer: An effective approach to improve Health Industries | The 7th International Conference onDevelopment Policy, Avinashilingam Institute for Home Science and HigherEducation for Women, 2016 |
|---|---|--|

Publication Year : 2015

| Name of the Authors | Title of the Article | Details of the Conference |
|---|--|---|
| P.Amudha, S. Karthik, S.Sivakumari | Intrusion Detection Based on Core Vector Machine and Ensemble Classification Methods | IEEE International Conference on Soft-computing and Network Security, SNS College of Technology on 25 th to 27 th , February, 2015. |

National Conference/Seminar

Publication Year : 2020

| | | |
|--|--|---|
| Amitha Mathew P.Amudha S.Sivakumari | A Review on Finger Vein Recognition Using Deep Learning Techniques | Proceedings of two day National Conference on Machine Learning and Its Applications, 21st & 22nd February 2020, pp. 12-15 , ISBN: 978-81-945147-6-3 |
| P.ShreeNandhini P.Amudha S.Sivakumari | Air Quality Prediction Using Artificial Intelligence – A Review | Proceedings of two day National Conference on Machine Learning and Its Applications, 21st & 22nd February 2020, pp.22-24, ISBN: 978-81-945147-6-3 |
| G.Vanitha P.Amudha S.Sivakumari | Wireless Sensor Network Using Artificial Intelligence Techniques – An Overview | Proceedings of two day National Conference on Machine Learning and Its Applications, 21st & 22nd February 2020, pp.25-29, ISBN: 978-81-945147-6-3 |
| B.Sabeena S.Sivakumari P.Amudha | Prediction of Parkinson’s Disease Using Machine Learning Algorithms – Survey | Proceedings of two day National Conference on Machine Learning and Its Applications, 21st & 22nd February 2020, pp.30-32, ISBN: 978-81-945147-6-3 |
| V.Devi P.Amudha S.Sivakumari | Analysis on Block Chain Based Electronic Health Records | Proceedings of two day National Conference on Machine Learning and Its Applications, 21st & 22nd February 2020, pp.42-45, ISBN: 978-81-945147-6-3 |
| Shree Devi P.Amudha S.Sivakumari | A Study on Machine Learning Techniques For Anomaly Detection | Proceedings of two day National Conference on Machine Learning and Its Applications, 21st & 22nd February 2020, pp. 46-50, ISBN: 978-81-945147-6-3 |
| Sheethal P.Amudha S.Sivakumari | A Survey on Optimal Path Selection And Passenger Load Estimation | Proceedings of two day National Conference on Machine Learning and Its Applications, 21st & 22nd February 2020, pp.51-53, ISBN: 978-81-945147-6-3 |

Publication Year : 2018

| | | | |
|----|-----------------------------------|--|--|
| 1. | P.Amudha, S.Sivakumari, | Safe and Responsible Use of Internet | Proceedings of National Seminar on EDU TECH JAMBOREE on 17 th & 18 th January, 2018 Proceedings of National Conference on Contemporary Dimensions in Library and Information Science on 27 th January 2018 |
| 2. | P.Amudha, S.Sivakumari | Influence of Digital Learning in Education | |
| 3. | R.Priyanka, P.Amudha | Cyber Security –Types, Importance And Issues | |

| | | | |
|----|-----------------------------------|--|---|
| 4. | P.Amudha, S.Sivakumari, | The Role of Dr. B. R. Ambedkar for Women Emancipation and Empowerment in India | Proceedings of National Conference on Thoughts of Dr. B.R. Ambedkar and its Relevance to Contemporary Society, 03.03.2018 |
|----|-----------------------------------|--|---|

Publication Year : 2017

| S.No | Name of the authors | Title of the Article | Details of the Conference |
|------|---|--|--|
| 5. | R.Keerthana P.Amudha | Improved Privacy for sensitive contents in social networks | Proceedings of National Conference on Internet of Things(IoT), pp.10-18,2017, ISBN: 978-93-80769-85-1 |
| 6. | P.Amudha, S.Sivakumari, R.PraveenaPriyadarsini | Decision Tree in Rapid Miner | Proceedings of TNSCST sponsored National Workshop on Rapid Miner - A Tool for Research in Data Mining, pp.1-6,July 25th, 2017, ISBN: 978-93-84-234-63-8 |
| 7. | P.Amudha, S.Sivakumari, R.PraveenaPriyadarsini | Encryption Technique on Cloud Data: an Overview | Proceedings of TNSCST sponsored National Seminar on Privacy and Data Security Issues in Cloud Computing, pp.1-3, August 10th, 2017, ISBN: 978-93-84-234-35-5 |
| 8. | P.Amudha, S.Sivakumari, R.PraveenaPriyadarsini | Cyber Security: An Analysis of Email Spam Classification | Proceedings of National Seminar on Cyber Security: Contemporary Issues and Challenges,pp.28-30,28 th August, 2017, ISBN : 978-93-84234-87-4 |
| 9. | P.Amudha, S.Sivakumari, R.PraveenaPriyadarsini | Email Security Using Spam Filtering: An Overview | Proceedings of TNSCST sponsored National Seminar on Emerging issues and challenges in cyber security, pp.1-3, September 6 th & 7th, 2017, ISBN: 978-93-84-234-089 |
| 10. | R.PraveenaPriyadarsini P. Amudha, S.Sivakumari | Cyber-attacks, Its Threats and Challenges: A Study | Proceedings of TNSCST sponsored National Seminar on Emerging issues and challenges in cyber security, pp.4-5, September 6 th & 7th, 2017, ISBN: 978-93-84-234-089 |
| 11. | R.Keerthana, P.Amudha | Internet of Things-Security and Privacy | Proceedings of TNSCST sponsored State Level Seminar on Privacy and Security in the Era of Big Data and Internet of Things,pp.13-16, September 26 th and 27 th , 2017, ISBN : 978-93-84-234-140 |
| 12. | P.Amudha, S.Sivakumari, | The Role of Computer Technology in Music: A Review | Proceedings of National Conference on Mutual Influence of Music in Technology, December 13 th & 14 th , 2017, pp. 6-11, ISBN 978-93-5288-680-7 |