Mohit Mittal

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Education

2012–2018   **PHD**, *Gurukul Kangri University*, Computer Science, India.

2010–2011   **Master of Technology**, *Guru Nanak Dev University*, Computer Science and Engineering, India.

2006–2010   **Bachelor of Technology**, *Guru Nanak Dev University*, Computer Science and Engineering, India.

Experience

Oct2020–Present   **Postdoctoral Researcher**, *INRIA*, Lille,France.

Mar2019–Sep2020   **Postdoctoral Researcher**, *Kyoto Sangyo University*, Kyoto,Japan.

Jan2019–Mar2019   **Assistant Professor**, *Chitkara University*, Punjab, India.

Jan2017–Jul2018   **Assistant Professor**, *MIET*, Jammu, India.

Research Interest

[1] Social Computing

[2] Natural Language Processing

[3] Wireless Sensor Network/ IoT

[4] Machine Learning

[5] Deep Learning

Publications

Recent Publications (2019-)

International Conferences

[C1] Y.Wang, P.Siriaraya, M.Mittal, H. Xie and Y.Kawai "Understanding Multilingual Correlation of Geo-tagged Tweets for POI Recommendation", W2GIS,2020, China (Accepted).

[C2] M.Mittal, P.Siriaraya, C.Lee, Y.Kawai, T.Yoshikawa and S.Shimojo, "Accurate Spatial Mapping of Social Media with Physical Locations", IEEE BSD, Big Data, Los Angeles, USA, 9-12 Dec 2019.

[C3] P.Siriaraya, Y.Zhang, Y.Wang , Y.Kawai, M.Mittal, P.Jeszenszky and A.Jatowt, "Witnessing Crime through Tweets: A Crime Investigation Tool based on Social Media", 27th ACM SIGSPATIAL, Chicago, Illinois, USA, 5-8 Nov 2019.

[C4] T.Kiriu, M.Mittal, P.Siriaraya , Y.Kawai and S.Nakajima, "Development of an Acoustic AR Gamification System to Support Physical Exercise", ACM Multimedia, Nice, France, Oct 21-25, 2019.

[C5] M.Mittal, J.H. Anajemba, C.Iwendi and L.K.Saraswat, "A Neuro-Fuzzy Approach for Intrusion Detection in Energy Efficient Sensor Routing ", 4th International conference on Internet of Things:Smart Innovation and Usage (IoT-SIU), IEEE, 2019.

International Journals

[J1] S. Kumar, M. Mittal and V.K. Yadav, "Cost_Effective Product Prioritization Technique for Software Product Line Testing",International Journal of Engineering Systems Modelling and Simulation, 2020

[J2] S. Kumar, Rajkumar and M. Mittal, "A Hybrid Approach to perform Test Case Prioritization and Reduction for Software Product Line Testing",International Journal of Vehicle Autonomous Systems, 2020

[J3] P.A. Pattanaik, Mohit Mittal, M Zubair Khan, SN Panda, "Malaria Detection using Deep Residual Networks with Mobile Microscopy",Journal of King Saud University - Computer and Information Sciences, 2020

[J4] C.L. Chowdhary, M. Mittal,Kumaresan P., P.A. Pattanaik and Z. Marszalek, "An Efficient Segmentation and Classification System in Medical Images Using Intuitionist Possibilistic Fuzzy C-Mean Clustering and Fuzzy SVM Algorithm" Sensors, MDPI, 2020, 20, 3903.

[J5] P. A. Pattanaik, M. Mittal and M. Z. Khan, "Unsupervised Deep Learning Cad Scheme For The Detection Of Malaria In Blood Smear Microscopic Images," IEEE Access, 2020.

[J6] M.Mittal, C.Iwendi, S.Khanand A.R. Javed, "Analysis of Security and Energy Efficiency for Shortest Route Discovery in LEACH Protocol Using Levenberg-Marquardt Neural Network and Gated Recurrent Unit for IDS", ETT, Wiley, 2020.

[J7] A.R.Javed, M.U.Sarwar,S.Khan,M.Mittal, C.Iwendi and N. kumar, "Analyzing the Effectiveness and Contribution of each Axis of Tri-Axial Accelerometer Sensor for Accurate Activity Recognition", Sensor, MDPI,April, 2020.

[J8] C.Iwendi,S.Khan, J.H.Anajemba, M.Mittal , M.Alenezi,"The Use of Ensemble Models for Multiple Class and Binary Class Classification for improving Intrusion Detection System", Sensor, MDPI, 2020.

[J9] J. H. Anajemba , T. Yue, C. Iwendi,M. Alenezi and M. Mittal, "Optimal Cooperative Offloading Scheme For Energy Efficient Multi-Access Edge Computation", IEEE Access, 2020.

[J10] M.Mittal and L.K. Saraswat, "Energy Evaluation of Sensor Protocol based on AI Techniques using CRAWDAD Data", International Journal of Recent Technology and Engineering, vol 8, issue-2, 2019.

[J11] M.Mittal and C.Iwendi, "A Survey on Energy-Aware Wireless Sensor Routing Protocols" EAI Endorsed Transactions on Energy Web, 2019.

Past Publications (2012-2018)

International Journal

[J1] M. Mittal, "Analysis of Energy Efficiency Based on Shortest Route Discovery in Wireless Sensor Network", International Journal of Advanced Intelligence Paradigms, Jan, 2017.

[J2] M. Mittal and K. Kumar, "Energy Efficient Homogeneous Wireless Sensor Network Using Self- Organizing Map (SOM) Neural Networks," IEEE, African Journal of Computing & ICT, Vol 8. No. 1, pp. 179-184, 2015.

[J3] M. Mittal and K. Kumar, "Quality of Services Provisioning in Wireless Sensor Networks using Artificial Neural Network: A Survey", International Journal of Computer Application, pp. 28-40, May 2015.

[J4] M. Mittal and K. Kumar, "Delay Prediction in Wireless Sensor Network Routing Using ART1 Neural Network", IEEE, African Journal of Computing & ICT, Vol 8. No. 3, pp. 175-180, 2015.

[J5] M.Mittal and K.Kumar, "Performance Improvement of Heterogeneous Wireless Sensor Network Using Self Organizing Feature Map (SOFM) Neural Network" International Journal of Communication Technology for Social Networking Services,Vol.2, No.1, pp.13-28, 2014.

[J6] M.Mittal and T.Bhalla, "MOBILE AGENT", International Journal of Engineering Research & Technology, Vol. 1 Issue 8, pp. 1-7, 2012.

[J7] M.Mittal and T. Bhalla, "Sockets and Socket Address Structure", International Journal of Engineering Research & Technology, Vol. 1 Issue 8, 2012, pp. 1-5.

[J8] M.Mittal and T.Bhalla, "Multi-Layer Perceptron Network For Handwritting English Character Recoginition," International Journal of Computer Science And Technology, Vol. 3, Issue 4, 2012, pp. 525-529

[J9] M.Mittal, "Performance Evaluation On Cryptographic Algorithms," International Journal of Computer Application, pp. 1-6, 2012

[J10] Y.Goyal, Y.Monga and M.Mittal, "Study and Analytical Perspective on Big Data", Int. J. Computational Systems Engineering, Vol. 3, No. 4, 2017.

[J11] P.Saha, M.Mittal, S.Gupta and M. Sharawi, "Big Data Trends and Analytics: A Survey ", International Journal of Computer Applications, vol. 180, no. 8, pp. 9-20, 2017.

[J12] V.K. Yadav S. Kumar and M. Mittal, " Prediction of Software Maintenance Effort of Object Oriented Metrics Based Commercial Systems," IEEE, African Journal of Computing & ICT, Vol 8. No. 1, pp. 163-172, 2015.

[J13] S. Gangwar, K. Kumar and M. Mittal, "Cluster Head Selection in Mobile Ad-hoc Network (MANET) Using ART1 Neural Network," IEEE, African Journal of Computing & ICT, Vol 8. No. 1, pp. 197-204, 2015.

[J14] T.Bhalla and M.Mittal," Profiling On Superscalar Pipelining Architecture And Multi-Pipeline Scheduling Policies," International Journal of Computer and Electronics Research, Volume 1, Issue 3, 2012, Pp. 88-92.

[J15] M.Mittal, "Energy Evaluation of Sensor Protocols Based on Artificial Neural Network Approach", JK Journal of Architecture and Engineering Sciences, pp. 22-32, Vol. 1, Issue 1, 2018.

[J16] A.Sharma , S.Gupta and M.Mittal, "A Conceptual Review on Smart Homes", NCETC, 2018.

[J17] D. Kumari, R. Pandita and M.Mittal, "An Agricultural Perspective in Internet of Things", NCETC,2018.

International Conference

[C1] M.Mittal and S.Kumar, "Performance Evaluation of LEACH Protocol Based on Data Clustering Algorithms", ICCCN, Springer, India, 2018

[C2] M.Mittal and S.Vijayal, "Detection of Attacks in IoT Based on Ontology Using SPARQL", IEEE, CSNT 2017,India, 2017.

[C3] M.Mittal, M.Rani, S.Srinivasan and O. P. Vyas, "Type-2 Fuzzy Ontology-Based Multi-Agents system for Wireless Sensor Network", IEEE Region 10 Conference (TENCON), Penang, Malaysia, 2017.

[C4] M.Mittal and K.Kumar, "Data Clustering In Wireless Sensor Network Implemented On Self Organization Feature Map (SOFM) Neural Network",IEEE, ICCCA, 2016.

[C5] M.Mittal and K.Kumar, "Network Lifetime Enhancement of Homogeneous Sensor Network Using ART1 Neural Network,", IEEE, Sixth CICN, pp. 472-475, 2014.

[C6] A.Singh, T.Singh, M.Mittal and K.Kumar, "Performance Improvement in AODV Routing Protocol with Artificial Intelligence", 3rd International Conference on "Computing for Sustainable Global Development, BVICAM, New Delhi, pp. 49-53, 2016.

[C7] S.Gupta, M.Mittal and A.Padha, "Predictive Analytics of Sensor Data Based on Supervised Machine Leaning Algorithms", IEEE International Conference on Next Generation Computing & Information System 2017", Jammu, 2017

[C8] V.Mittal, L.Nautiyal and M.Mittal, "Cloud Testing-The Future of Contemporary Software Testing", IEEE, International Conference on Next Generation Computing & Information System 2017" , Jammu, 2017.

[C9] S.Vijayal and M.Mittal, "Intrusion Detection in IoT based on Neuro-Fuzzy Approach", published in proceedings of International conference on Machine learning and Computational Intelligence, India, 2017.

[C10] K.Kumar and M.Mittal, "E-banking security and challenges: A survey," 2nd International conference on paradigm shift in innovative business management, VIPSAR, Indore (M.P), 2013.

Book Chapter

[B1] Mohit Mittal and Robin Singh Bhadoria, "Aspect of ESB with Wireless Sensor Network", Exploring Enterprise Service Bus in the Service-Oriented Architecture Paradigm,IGI-global publications, pages 319, ISBN: 9781522521570.

[B2] Siddharth Prasad, Robin Singh Bhadoria and Mohit Mittal, "Data Processing in IoT using Enterprise Service Bus", The Internet of Things: Foundation for Smart Cities, eHealth and Ubiquitous Computing, CRC press, Taylor and Francis Group, Oct. 2017, ISBN: 9781498789028.

Workshops

2020 Participated in a online workshop on "Recent Trends in Computer Science & IT", Raj Kumar Goel Institute of Technology, Ghaziabad, India, from 13th Jul 2020 to 17th Jul 2020

2019   Completed e-Learning Course on "Research Ethics", Japan Society for the Promotion of Science.

2018   Participated in a workshop on "Machine Learning and Data Analytics with Python", at Ajay Kumar Garg Engineering College, Ghaziabad, India, from 4th Dec 2018 to 08th Dec 2018.

2017   Participated in a workshop on "Big Data", at Graphic Era University, Dehradun, India, from 18th Dec 2017 to 23rd Dec 2017.

2017   Participated in a workshop on "Practical Hands on Machine Learning", at Inmantac Institutes, Ghaziabad, India, from 6th July 2017 to 10th July 2017.

2016   Participated in a workshop on "Simulation in Wireless Sensor Network (WSN Kit)", at MJP Rohilkhand University, Bareilly, UP, India, from 2nd May 2016 to 7th May 2016.

2014   Participated in the one day expert session workshop on cloud computing "cloud Sim" in FET organised by department of computer science and Computer Society of India (CSI) (Haridwar Chapter), Gurukul Kangri Vishwavidyalaya, Haridwar, october 2014.

Personal Information

Father's name –Gopal Krishan.

Date of Birth – 02, May 1988.

Marital Status - Single.

Languages Known - English, Hindi and Punjabi.

Nationality – Indian.

Country visited- Japan,USA and France.

My website-https://mohitmittal1988.github.io/mm/