

# List of Conference Publications

## Capital University of Science and Technology

- [1] A. J. Das and M. Ali, “Flexural Capacity of Recycled Plastic Corrugated Sheet,” in *1st International Conference on Advances in Civil & Environmental Engineering (ICACEE 2022)*, p. 178, 2022.
- [2] A. Iqbal and M. Ali, “An overview on need for automatic structural detailing of line elements in BIM tools,” in *1st International Conference on Advances in Civil & Environmental Engineering (ICACEE 2022)*, p. 172, 2022.
- [3] H. Ilyas and M. Ali, “Low price instrumentations for structural health monitoring – A review,” in *1st International Conference on Advances in Civil & Environmental Engineering (ICACEE 2022)*, p. 148, 2022.
- [4] B. Hassan and M. Ali, “Economization of Stiffeners Considering Near- Fault Ground Motion Effects on Confined Brick Masonry Structures,” in *1st International Conference on Advances in Civil & Environmental Engineering (ICACEE 2022)*, p. 132, 2022.
- [5] M. Ali, S. Khalid, M. S. Saad, and M. Sudheer, “Sustainable Concrete: A review,” in *1st International Conference on Advances in Civil & Environmental Engineering (ICACEE 2022)*, p. 171, 2022.
- [6] B. Hassan and M. Ali, “Potential of used-petrol-engine-oil as an admixture in cement composites: A detailed review,” in *6th International Conference on Civil Engineering for Sustainable Development(ICCESD 2022, Khuna, Bangladesh)*, p. 1141, 2022.
- [7] Z. U. Abideen and M. Ali, “Effects of the combined use of banana fiber and used-diesel-engine oil on the workability of concrete,” in *6th International Conference on Civil Engineering for Sustainable Development(ICCESD 2022, Khuna, Bangladesh)*, p. 1140, 2022.
- [8] M. Abrar and M. Ali, “A review on the hybridization of varying length natural fibers for cement composites,” in *6th International Conference on Civil Engineering for Sustainable Development(ICCESD 2022, Khuna, Bangladesh)*, p. 1138, 2022.
- [9] A. J. Das and M. Ali, “An overview on different reinforcing bars from manufacturing to strengthening element,” in *6th International Conference on Civil Engineering for Sustainable Development(ICCESD 2022, Khuna, Bangladesh)*, p. 1137, 2022.
- [10] S. Khalid, M. S. Saad, W. Ali, M. Sudheer, and M. Ali, “Behaviour of concrete at high temperature: A review,” in *6th International Conference on Civil Engineering for Sustainable Development(ICCESD 2022, Khuna, Bangladesh)*, p. 1133, 2022.

- [11] M. Ullah, A. Hamza, I. A. Taj, and M. Tahir, “Low Resolution Face Recognition using Enhanced SRGANs Generated Images,” in *16th International Conference on Emerging Technologies*, pp. 1–5, 2021.
- [12] Z. Latif, A. Shahzad, R. Samar, and A. I. Bhatti, “Lateral Parameter-Varying Modelling and Control of a UAV on-Ground,” *IFAC-PapersOnLine*, vol. 54, no. 8, pp. 130–135, 2021.
- [13] M. H. Zafar, U. A. Khan, and N. M. Khan, “Hybrid Grey Wolf Optimizer Sine Cosine Algorithm based Maximum Power Point Tracking Control of PV Systems under Uniform Irradiance and Partial Shading Condition,” in *2021 4th International Conference on Energy Conservation and Efficiency (ICECE)*, pp. 1–6, IEEE, 2021.
- [14] N. M. Khan, U. A. Khan, and M. H. Zafar, “Maximum Power Point Tracking of PV System under Uniform Irradiance and Partial Shading Conditions using Machine Learning Algorithm Trained by Sailfish Optimizer,” in *2021 4th International Conference on Energy Conservation and Efficiency (ICECE)*, pp. 1–6, IEEE, 2021.
- [15] M. H. Zafar, U. A. Khan, and N. M. Khan, “A sparrow search optimization algorithm based MPPT control of PV system to harvest energy under uniform and non-uniform irradiance,” in *2021 International Conference on Emerging Power Technologies (ICEPT)*, pp. 1–6, IEEE, 2021.
- [16] N. M. Khan, U. A. Khan, and M. H. Zafar, “Radial Basis Function trained with Dynamic Differential Annealed Optimization algorithm based Maximum Power Point Tracking Control of PV system under Uniform and Non-Uniform irradiance,” in *2021 International Conference on Emerging Power Technologies (ICEPT)*, pp. 1–6, IEEE, 2021.
- [17] Q. Arooj and U. A. Khan, “Improving the Efficiency of Transmission Line by Using 48-Pulse Smart Power Flow Controller,” in *16th International Conference on Emerging Technologies (ICET), Islamabad*, pp. 1–6, IEEE, 2021.
- [18] M. H. Zafar, N. M. Khan, and U. A. Khan, “Short Term Hybrid PV/Wind Power Forecasting for Smart Grid Application using Feedforward Neural Network (FNN) Trained by a Novel Atomic Orbital Search (AOS) Optimization Algorithm,” in *2021 International Conference on Emerging Power Technologies (ICEPT)*, pp. 1–6, IEEE, 2021.
- [19] N. M. Khan, U. A. Khan, and M. H. Zafar, “Optimal Control of PV System to Extract Maximum Power Under Non-Uniform Environmental Conditions,” in *2021 International Conference on Emerging Power Technologies (ICEPT)*, pp. 1–6, IEEE, 2021.
- [20] N. M. Khan, U. A. Khan, and M. H. Zafar, “Short Term Power Forecasting of Wind Energy System using Deep Neural Network (DNN) Trained by a Novel Meta-Heuristic Optimization Algorithm,” in *2021 International Conference on Emerging Power Technologies (ICEPT)*, pp. 1–6, IEEE, 2021.

- [21] S. S. S. Gardezi and N. Shafiq, “Prospects of a Sustainable EOL-Carbon Footprint Assessment of a Tropical Housing Habitat,” in *Proceedings of the International Conference on Civil, Offshore and Environmental Engineering*, pp. 545–554, Springer, 2021.
- [22] A. Zaman, F. Khalid, and M. Ali, “Provisions of Sustainability in Structural Design Approaches in Different Codes,” in *6th International Conference on Building Materials and Construction (ICBMC 2021)*, National University of Singapore, 2021.
- [23] W. Ahmad, S. Gul, and M. Ali, “Review on Flaws In Concrete and its Structural Performance,” in *International Congress on Phenomenological Aspects of Civil Engineering*, Ataturk University, Turkey, 2021.
- [24] A. Ejaz and M. Ali, “Limitations of Autodesk Robot Structural Analysis Professional for Structural Design Output: A Review of Frame Building,” in *International Congress on Phenomenological Aspects of Civil Engineering*, Ataturk University, Turkey, 2021.
- [25] A. Rehman and M. Ali, “Effectiveness of Hybrid Fibers in Cementitious Composites Towards Sustainability: A Review,” in *International Conference on Innovations in Energy Engineering & Cleaner Production Silicon Valley, San Francisco, California – USA*, 2021.
- [26] A. J. Das and M. Ali, “Recycling of waste plastic with least effect to environment: A review,” in *International Conference on Innovations in Energy Engineering & Cleaner Production Silicon Valley, San Francisco, California – USA*, 2021.
- [27] B. Hassan and M. Ali, “A Review on Durability Methods for Natural Fibers in Polymer Matrices from Sustainability Aspects,” in *International Conference on Innovations in Energy Engineering & Cleaner Production Silicon Valley, San Francisco, California*, 2021.
- [28] B. Hassan and M. Ali, “Workability of Concrete Having Used Petrol Engine Oil and Banana Fibers,” in *International Conference on Innovations in Energy Engineering & Cleaner Production Silicon Valley, San Francisco, California*, 2021.
- [29] M. Abrar and M. Ali, “Effect of Banana fibers on the enhancement of compressive toughness of Reinforced Concrete Columns–A Review,” in *International Conference on Innovations in Energy Engineering & Cleaner Production Silicon Valley, San Francisco, Californi*, 2021.
- [30] S. Ullah and M. Ali, “Treatment of Natural Fibers for Improving Cement Composites Behavior-An Overview,” in *International Conference on Innovations in Energy Engineering & Cleaner Production Silicon Valley, San Francisco, California – USA*, 2021.
- [31] S. Ullah and M. Ali, “Sustainability Aspects in Seismic Performance of Confined Masonry Structures: A Review,” in *International Conference on Innovations in Energy Engineering & Cleaner Production Silicon Valley, San Francisco, California – USA*, 2021.

- [32] M. H. Dodhy, M. U. Farooqi, and M. Ali, “Utilization of Natural Fibers in Construction Industry: A Review,” in *International Conference on Computational Civil Engineering Empower The Digital Transition In The Construction World*, 2021.
- [33] M. Abrar and M. U. Farooqi, “Impacts of Floods on Bridges –A Review,” in *1st International Conference on Applied Engineering and Natural Sciences*, 2021.
- [34] M. Abrar and M. U. Farooqi, “Remedial Measures to Reduce the Harmful Impacts of Tsunami on Buildings –A Review,” in *1st International Conference on Applied Engineering and Natural Sciences*, 2021.
- [35] R. Sabir and M. M. Khan, “Thermal hydraulic performance augmentation of dimpled enhanced tubes for different dimple shapes using variation in radial dimples,” in *International Conference on Advances in Mechanical Engineering, Pakistan*, 2021.
- [36] R. Sabir and M. M. Khan, “Thermal hydraulic performance enhancement of U-tubes using inward ellipsoidal 45-degree dimples,” in *International Conference on Advances in Mechanical Engineering, Pakistan*, 2021.
- [37] L. Hussain and M. M. Khan, “A review on jet impingement cooling methods,” in *International Conference on Advances in Mechanical Engineering, Pakistan*, 2021.
- [38] Y. Zulfiqar and H. M. J. Joya, A J, “Stress Analysis of Flat and Conical Roof Cylindrical Tank Due to Seismic Sloshing,” in *International Conference on Advances in Mechanical Engineering, Pakistan*, 2021.
- [39] H. Ahmed, Y. Zulfiqar, and H. M. J. Joya, A J, “Modelling and Analysis of Faults in a Nominal n Model of a Medium Transmission Line Using Simulink,” in *International Conference on Advances in Mechanical Engineering, Pakistan*, 2021.
- [40] Y. Zulfiqar and H. M. J. Joya, A J, “Deformation and Stress Analysis of Cylindrical Acid Storage Tank with Piping Attachments due to Sloshing Upon Kashmir 2005, Earthquake,” in *International Conference on Advances in Mechanical Engineering, Pakistan*, 2021.
- [41] M. Zulfiqar, U. R. Zia, T. Rashid, R. Siddiqui, S. Ullah, W. N. Awan, and M. M. Uddin, “Prospects of bioenergy potential in Punjab (Pakistan) under different scenarios of agricultural growth,” in *International Conference on Advances in Mechanical Engineering, Pakistan*, 2021.
- [42] M. Ahmed and M. Irfan, “Pevaporation Dynamics of two differently sized Interacting Droplets,” in *International Conference on Advances in Mechanical Engineering, Pakistan*, 2021.
- [43] D. Hamid, H. Majeed, Z. A. Rahim, and M. S. Iqbal, “Competitive and Co-Operative Analysis of Genetic-Programming,” *IOP Conference Series: Materials Science and Engineering*, vol. 1051, no. 1, p. 012003, 2021.

- [44] S. M. Muzammal, R. K. Murugesan, and N. Jhanjhi, "Introducing Mobility Metrics in Trust-based Security of Routing Protocol for Internet of Things," in *2021 National Computing Colleges Conference (NCCC)*, pp. 1–5, IEEE, 2021.
- [45] P. Mahadevappa, S. M. Muzammal, and R. K. Murugesan, "A Comparative Analysis of Machine Learning Algorithms for Intrusion Detection in Edge-Enabled IoT Networks," *arXiv preprint arXiv:2111.01383*, 2021.
- [46] A. Zaheer, M. Z. Asghar, and A. Qayyum, "Intrusion Detection and Mitigation Framework for SDN Controlled IoTs Network," in *2021 IEEE 18th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI (HONET)*, pp. 147–151, IEEE, 2021.
- [47] M. Z. U. Khan, A. Ahmed, M. R. Siddiqui, and M. A. Ali, "Effect of Dimple Shape and Depth on Tribological Performance of Textured Surface," in *18th IBCAST*, 2021.
- [48] U. U. Rehman, M. Zulfiqar, W. Nazir Awan, and A. Awais, "Comparative Assessment of Bioenergy Technologies for Energy Production through Agricultural Residues," in *International Conference on Energy, Water and Environment (ICEWE-21)*, 2021.
- [49] M. Uzair Shah, R. A. Pasha, A. Hassan, U. U. Rehman, M. Zulfiqar, and W. Nazir Awan, "A Supply Chain System To Transition From Non Commercial Hazardous Energy Sources To Sustainable Bio Energy," in *International Conference on Energy, Water and Environment (ICEWE-21)*, 2021.
- [50] H. Khalil, M. M. Ahmed, U. Rafique, R. Almesaeed, and W. Nazar, "Optimum placement of conformal antenna array based on path loss profile," in *Proceedings of International Conference on Advances in the Emerging Computing Technologies (AECT)*, pp. 1–5, IEEE, 2020.
- [51] U. Rafique and H. Khalil, "Modified planar rectangular antenna array for wideband 5G MIMO applications," in *Proceedings of International Conference on Advances in the Emerging Computing Technologies (AECT)*, pp. 1–5, IEEE, 2020.
- [52] S. Agarwal, U. Rafique, and V. Jain, "Wideband e-Shaped Planar Antenna for Cellular, GPS, and Wireless Applications," in *International Conference on Intelligent Computing and Smart Communication 2019*, pp. 633–641, Springer, 2020.
- [53] U. F. Ahmed, Z. Hameed, F. Ahmed, T. A. U'Chong, M. M. A. Asif, *et al.*, "Design and development of control system for unmanned ground vehicle and its manipulator," in *2020 International Conference on Engineering and Emerging Technologies (ICEET)*, pp. 1–8, IEEE, 2020.
- [54] M. Sudheer and M. Ali, "Behaviour of interlocking block structures under dynamic loading: A review," 2020.
- [55] A. Shehryar and M. Ali, "Improvement in impact resistance of gfrp reinforced concrete wall panels using jute fibres," in *11th International Civil Engineering Conference*

(ICEC2020) *Integrating Innovation and Sustainability in Civil Engineering*”, NED-UET / IEP Karachi, Pakistan, vol. 11, 2020.

- [56] M. Sudheer and M. Ali, “Behavior of interlocking plastic-block wall with opening under harmonic loading using locally developed shake tables,” in *11th International Civil Engineering Conference (ICEC2020) Integrating Innovation and Sustainability in Civil Engineering*”, NED-UET / IEP Karachi, Pakistan, vol. 11, 2020.
- [57] S. Afzal and M. Ali, “Out-of-plane behavior of mortar-free interlocking solid-walls under seismic loading – a review,” in *11th International Civil Engineering Conference (ICEC2020) Integrating Innovation and Sustainability in Civil Engineering*”, NED-UET / IEP Karachi, Pakistan, vol. 11, 2020.
- [58] A. Abbas, A. Ejaz, and M. Ali, “Utilization of natural fibers in concrete for improving behavior of non-structural elements – a review,” in *11th International Civil Engineering Conference (ICEC2020) Integrating Innovation and Sustainability in Civil Engineering*”, NED-UET / IEP Karachi, Pakistan, vol. 11, 2020.
- [59] H. U. Din and M. Ali, “Energy dissipation in 3d structure with multiple uplifts at column bases,” in *11th International Civil Engineering Conference (ICEC2020) Integrating Innovation and Sustainability in Civil Engineering*”, NED-UET / IEP Karachi, Pakistan, vol. 11, 2020.
- [60] I. Waris and M. Ali, “Finite element modelling of uplift in structures - a review,” in *11th International Civil Engineering Conference (ICEC2020) Integrating Innovation and Sustainability in Civil Engineering*”, NED-UET / IEP Karachi, Pakistan, vol. 11, 2020.
- [61] M. B. T. Kiani and M. Ali, “Seismic analysis and design of elevated water tower – a review,” in *11th International Civil Engineering Conference (ICEC2020) Integrating Innovation and Sustainability in Civil Engineering*”, NED-UET / IEP Karachi, Pakistan, vol. 11, 2020.
- [62] A. U. Rahman and M. Ali, “Influence of jute fibre and gfrp rebars in compressive and dynamic behavior of prototype thin shear concrete walls,” in *11th International Civil Engineering Conference (ICEC2020) Integrating Innovation and Sustainability in Civil Engineering*”, NED-UET / IEP Karachi, Pakistan, vol. 11, 2020.
- [63] T. Ahmed, M. Farooqi, and M. Ali, “Compressive behavior of rice straw-reinforced concrete for rigid pavements,” *MS&E*, vol. 770, no. 1, p. 012004, 2020.
- [64] M. Shah, M. U. Farooqi, and M. Ali, “Use of admixtures in improving bonded asphalt overlay on concrete pavements-a critical review,” in *11th International Civil Engineering Conference (ICEC2020) Integrating Innovation and Sustainability in Civil Engineering*”, NED-UET / IEP Karachi, Pakistan, vol. 11, 2020.
- [65] S. Z. Ali, M. U. Farooqi, and M. Ali, “Assessment of asphalt overlay performance over concrete bridge deck,” in *11th International Civil Engineering Conference (ICEC2020)*

*Integrating Innovation and Sustainability in Civil Engineering*”, NED-UET / IEP Karachi, Pakistan, vol. 11, 2020.

- [66] M. U. Rahman, M. U. Farooqi, and M. Ali, “Use of bim tools in highway transportation system in developed countries - a review,” in *11th International Civil Engineering Conference (ICEC2020) Integrating Innovation and Sustainability in Civil Engineering*”, NED-UET / IEP Karachi, Pakistan, vol. 11, 2020.
- [67] M. A. Tariq, M. U. Farooqi, and M. Ali, “A review on different influential factors and techniques for evaluating bonding between asphalt overlay and concrete pavement,” in *11th International Civil Engineering Conference (ICEC2020) Integrating Innovation and Sustainability in Civil Engineering*”, NED-UET / IEP Karachi, Pakistan, vol. 11, 2020.
- [68] W. Raza, F. Khalid, and M. Ali, “A review on observed flaws in bricks and their possible sustainable remedies for local construction,” in *11th International Civil Engineering Conference (ICEC2020) Integrating Innovation and Sustainability in Civil Engineering*”, NED-UET / IEP Karachi, Pakistan, vol. 11, 2020.
- [69] A. Bashir, S. Gul, and M. Ali, “A critical review on limitations of non-linear analysis of multi-storey structures,” in *11th International Civil Engineering Conference (ICEC2020) Integrating Innovation and Sustainability in Civil Engineering*”, NED-UET / IEP Karachi, Pakistan, vol. 11, 2020.
- [70] S. S. S. Gardezi and N. Shafiq, “Prospects of a sustainable eol - carbon footprint assessment of a tropical housing habitat,” in *6th International Conference on Civil, Offshore & Environmental Engineering (ICCOEE2020)*, p. 5, 2020.
- [71] S. S. S. Gardezi and U. Hussain, “Sustainability assessment of a house by using leed and breeam,” in *21th International Civil Engineering Conference (ICEC-2020)*, p. 5, 2020.
- [72] U. Hussain, S. S. S. Gardezi, and I. Hassan, “Sustainability rating assessment of a building using casbee tool,” in *The 2nd International Sustainability and Resilience Conference*, 2020.
- [73] U. Hussain, S. S. S. Gardezi, and I. Hassan, “Bim-based energy optimization – a case study of high-rise building in pakistan,” in *6th International (Virtual) Workshop on UI Green Metric World University Rankings (IWGM 2020)*, 2020.
- [74] S. Malik and T. Solaija, “Static and dynamic analysis of absolute nodal coordinate formulation planar elements,” in *2020 17th International Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 167–173, IEEE, 2020.
- [75] A. Laouiti, A. Qayyum, and M. N. M. Saad, “WVSC’19 Workshop , springer series “advances in intelligent systems and computing”,” 2020.

- [76] M. Bano, R. N. B. Rais, S. S. A. Gilani, and A. Qayyum, “SDNHybridMesh: a hybrid routing architecture for sdn based wireless mesh networks,” in *Workshops of the International Conference on Advanced Information Networking and Applications, Artificial Intelligence and Network Applications (WAINA 2020)*, pp. 366–375, Springer, 2020.
- [77] A. M. Qureshi and N. Anjum, “Detection of malicious consumer interest packet while mitigating content poisoning attack with name-key based forwarding and multipath forwarding based inband probe,” in *2020 International Conference on UK-China Emerging Technologies (UCET)*, pp. 1–4, IEEE, 2020.
- [78] M. Rizwan, A. Nadeem, and M. A. Sindhu, “Empirical Evaluation of Coupling Metrics in Software Fault Prediction,” in *17th International Bhurban Conference on Applied Sciences and Technology (IBCAST 2020)*, 2020.
- [79] M. Rizwan, A. Nadeem, and M. A. Sindhu, “Theoretical Evaluation of Software Coupling Metrics,” in *17th International Bhurban Conference on Applied Sciences and Technology (IBCAST 2020)*, 2020.
- [80] M. Rizwan, A. Nadeem, and M. A. Sindhu, “Empirical evaluation of coupling metrics in software fault prediction,” in *2020 17th International Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 434–440, IEEE, 2020.
- [81] R. Butool, A. Nadeem, M. Sindhu, and O. uz Zaman, “Improving requirements coverage in test case prioritization for regression testing,” in *2019 22nd International Multitopic Conference (INMIC)*, pp. 1–6, IEEE, 2019.
- [82] T. Afzal, A. Nadeem, M. Sindhu, and Q. uz Zaman, “Test case prioritization based on path complexity,” in *2019 International Conference on Frontiers of Information Technology (FIT)*, pp. 363–3635, IEEE, 2019.
- [83] M. Rizwan, A. Nadeem, and M. A. Sindhu, “Theoretical evaluation of software coupling metrics,” in *2020 17th International Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 413–421, IEEE, 2020.
- [84] Y. Anees, S. Abdul Rauf, N. Iqbal, and A. Basit Siddiqi, “Developing a monolingual sentence simplification corpus for urdu,” in *Proceedings of the The Fourth Widening Natural Language Processing*, 2020.
- [85] M. Zahid, I. Inayat, A. Mashkooor, and Z. Mehmood, “Security risk mitigation of cyber physical systems: A case study of a flight simulator,” in *International Conference on Database and Expert Systems Applications*, pp. 129–138, Springer, 2020.
- [86] M. Hammad, I. Inayat, and M. Zahid, “Risk management in agile software development: A survey,” in *2019 International Conference on Frontiers of Information Technology (FIT)*, pp. 162–1624, IEEE, 2020.
- [87] B. Zeb, A. Khan, Y. Khan, M. F. Masood, I. Tahir, and M. Asad, “Towards the selection of the best machine learning techniques and methods for urinalysis,” in *Proceedings of the 2020 12th International Conference on Machine Learning and Computing*, pp. 127–133, 2020.

- [88] M. Q. Khan and S. M. Bakhtiar, “Analysing disrupted in schizophrenia i ( disci) as a potential therapeutic target of schizophrenia,” in *1st International Conference on emerging Trends in Interdisciplinary Research in Biomedical sciences. University of Okara, Okara*, 2020.
- [89] M. Q. Khan and S. M. Bakhtiar, “Role of glycosylation in the etiology of schizophrenia,” in *8th International Conference on Computational and Biological Sciences. CUST, Islamabad*, 2020.
- [90] S. E. Z. Bokhari, S. M. Bakhtiar, and S. Ahmed, “Conservation initiatives/practices in universities: Universities responsibilities for sustainable development goals and worlds’ complex challenges,” in *6th International Workshop on UI GreenMetric World University Rankings ( IWGM 2020): University of Zanjan, Iran*, 2020.
- [91] S. E. Z. Bokhari, S. M. Bakhtiar, H. Zulfiqar, and L. Bibi, “Risk analysis associated with agricultural practices followed in pakistan,” in *8th International Conference On Endorsing Health Science Research ICEHSR Karachi*, p. 5, 2020.
- [92] M. Bano, U. A. Qureshi, R. Rais, M. Tufail, and A. Qayyum, “Miracle: An agile colocation platform for enabling xaas cloud architecture,” in *2019 19th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGRID)*, pp. 604–610, 2019.
- [93] S. S. A. Gilani, I. U. Khosa, M. H. Bin Waheed, A. Qayyum, and M. Bano, “Qoengn: A qoe framework for video streaming over next generation mobile networks,” in *Proceedings of the 2019 4th International Conference on Multimedia Systems and Signal Processing*, pp. 109–113, 2019.
- [94] M. H. Bin Waheed, A. Qayyum, S. S. A. Gilani, I. U. Khosa, and M. Bano, “Mmcdn: A novel architecture for multimedia content delivery networks,” in *Proceedings of the 2019 4th International Conference on Multimedia Systems and Signal Processing*, pp. 99–103, 2019.
- [95] M. Zahid, I. Hussain, and M. F. Iqbal, “Realistic estimation of signal-to-noise ratio in microwave receivers,” in *2019 16th International Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 952–955, IEEE, 2019.
- [96] T. Ahmed and N. M. Khan, “A simple and low cost land-mobile-radio design for interoperability among radio networks in a public safety scenario,” in *2019 International Conference on Communication Technologies (ComTech)*, pp. 1–6, IEEE, 2019.
- [97] S. Ahmad and Q. Mahmood, “An authentication based scheme for applications using JSON web token,” in *INMIC 2019*, 2019.
- [98] U. Maqbool and U. A. Khan, “Wavelet based feature analysis of fault signals in a Microgrid,” in *2018 International Conference on Power Generation Systems and Renewable Energy Technologies (PGSRET)*, pp. 1–6, IEEE, 2018.

- [99] R. Anjum, A. Yar, A. I. Bhatti, I. Yousufzai, and Q. Ahmed, “Dual loop speed tracking control for torque management of gasoline engines,” in *2019 18th European Control Conference (ECC)*, pp. 3084–3089, IEEE, 2019.
- [100] A. Mahmood, A. I. Bhatti, and B. A. Siddique, “Landing of aircraft using integral state feedback sliding mode control,” in *2019 International Conference on Electrical, Communication, and Computer Engineering (ICECCE)*, pp. 1–6, IEEE, 2019.
- [101] A. Khan and A. I. Bhatti, “Comparison between kalman filter and interacting multiple model using 2-d trajectories,” in *2019 International Conference on Electrical, Communication, and Computer Engineering (ICECCE)*, pp. 1–6, IEEE, 2019.
- [102] T. Ijaz and A. I. Bhatti, “Comparison of monopulse and music estimator for angular parameters estimation,” in *2019 International Conference on Electrical, Communication, and Computer Engineering (ICECCE)*, pp. 1–6, IEEE, 2019.
- [103] H. M. Y. Naeem, A. I. Bhatti, and A. Mahmood, “Longitudinal cruise control of a car using sliding mode approach,” in *2019 International Conference on Electrical, Communication, and Computer Engineering (ICECCE)*, pp. 1–5, IEEE, 2019.
- [104] S. G. Bhatti and A. I. Bhatti, “Adaptive measurement noise covariance matrix r for jpdaf based multitarget tracking,” in *2019 International Conference on Electrical, Communication, and Computer Engineering (ICECCE)*, pp. 1–6, IEEE, 2019.
- [105] H. M. Y. Naeem, A. I. Bhatti, Y. A. Butt, and Q. Ahmed, “Velocity profile optimization of an electric vehicle (ev) with battery constraint using pontryagin’s minimum principle (pmp),” in *2019 IEEE Conference on Control Technology and Applications (CCTA)*, pp. 750–755, IEEE, 2019.
- [106] R. Anjum, A. Yar, S. Shah, Q. Ahmed, and A. I. Bhatti, “Observer based robust control design for mitigation of cyclic torque imbalance in gasoline engines,” in *2019 IEEE Conference on Control Technology and Applications (CCTA)*, pp. 160–165, IEEE, 2019.
- [107] I. Hassan, A. R. Ghumman, and W. Aruba, “Simulating precipitation of bahawalpur and its adjoining cholistan desert of pakistan due to climate change,” in *8th International Conference On Water Resources and Arid Environments. Riyadh Saudi Arabia*, 2019.
- [108] I. Hassan and W. Aruba, “Comparative analysis of solid waste management practices in higher education institutions of developing countries,” in *3rd Asian Conference on Science, Technology & Medicine, ACSTM, Deira, Dubai UAE*, 2019.
- [109] M. Waqas and M. Ali, “An efficient approach to incorporate soil-structure interaction effects for practicing engineers,” in *IACGE 2018: Geotechnical and Seismic Research and Practices for Sustainability*, pp. 639–651, American Society of Civil Engineers Reston, VA, 2019.
- [110] N. Ajaz, A. Rashid, and M. Ali, “Relationship between energy dissipation and column uplift in simple 3d structure during dynamic loading,” *Structure*, vol. 75, pp. 0–017.

- [111] M. Ali and M. Affan, “Compressive behavior of jute fiber reinforced concrete under freeze-thaw cycles,” in *International Civil Engineering and Architecture Conference*, 2019.
- [112] M. Khan, M. Cao, and M. Ali, “Influence of CaCO<sub>3</sub> whiskers, steel fibers and basalt fibers hybridization on flexural toughness of concrete,” in *5th International Conference on Sustainable Construction Materials and Technology, Kingston University, London UK*, 2019.
- [113] F. Qamar, T. Thomson, and M. Ali, “Effect of natural fibrous plaster on lateral resistance of mortarless interlocking wall,” in *5th International Conference on Sustainable Construction Materials and Technology, Kingston University, London UK*, 2019.
- [114] M. Affan and M. Ali, “Behavior of jute fiber reinforced concrete under freeze-thaw cycles,” in *International Civil Engineering and Architecture Conference, Trabzon, Turkey*, 2019.
- [115] M. Zahid and M. Ali, “Behavior of jute fiber reinforced stabilized earth-brick to improve load carrying capacity,” in *International Civil Engineering and Architecture Conference, Trabzon, Turkey*, 2019.
- [116] M. M. B. Safdar and M. Ali, “Robot structural analysis for practising designers in developing countries – challenges and their solution,” in *International Civil Engineering and Architecture Conference, Trabzon, Turkey*, 2019.
- [117] A. N and A. M, “Numerical modelling of uplift in simple 3D structure,” 2019.
- [118] D. Khan, E. A M, M. S T, and S. S S, “Embodied carbon footprint assessment of a conventional commercial building using BIM,” *11th International Conference (CITC-11) September 9-11, 2019, London, UK*, 2019.
- [119] A. J. H. K. R. M H S, Syed and S. S S, “Assessment of embodied carbon footprint of an educational building in pakistan using building information modelling (BIM),” *11th International Conference (CITC-11) September 9-11,2019, London, United Kingdom*, 2019.
- [120] S. Gul and S. Naseer, “Concrete containing recycled rubber steel fiber,” *Procedia Structural Integrity*, vol. 18, pp. 101–107, 2019.
- [121] K. Mehdi, S. Gul, and M. Ali, “Influence of bio-based admixture on compressive strength of concrete for columns,” *Procedia Structural Integrity*, 2019.
- [122] U. Khan, F. Khalid, and M. Ali, “Potential utilization of waste-materials in construction-determination of properties of composite having waste materials,” 2019.
- [123] K. F. Raza, Ahmad and K. Ali, “Effect of various aggregate sources on concrete strength,” 2019.
- [124] K. Arooj, M. U. Farooqi, and M. Ali, “Availability and potential of natural fibres of pakistan to be used in rigid pavements,” 2019.

- [125] M. U. Farooqi and M. Ali, "Construction practices for first ever wheat straw reinforced concrete pavement for light traffic," *5th International Conference on Sustainable Construction Materials and Technology*, 2019.
- [126] T. Ahmed, M. U. Farooqi, and M. Ali, "Compressive behaviour of rice straw reinforced concrete for rigid pavements," *8th Global Conference on Materials Science and Engineering*, 2019.
- [127] M. Khana, S. S. Warsia, S. H. I. Jafferya, R. Ahmada, and M. Younasa, "Analysis of energy consumption in orthogonal machining of Al 6061-T6 Alloy," in *Advances in Manufacturing Technology XXXIII: Proceedings of the 17th International Conference on Manufacturing Research, incorporating the 34th National Conference on Manufacturing Research, 10-12 September 2019, Queen's University, Belfast*, vol. 9, p. 327, IOS Press, 2019.
- [128] M. B. Bashir and A. Nadeem, "An experimental tool for search-based mutation testing," in *2018 International Conference on Frontiers of Information Technology (FIT)*, pp. 30–34, IEEE, 2018.
- [129] M. B. Bashir and A. Nadeem, "An evolutionary mutation testing system for Java Programs: eMuJava," in *Intelligent Computing-Proceedings of the Computing Conference*, pp. 847–865, Springer, 2019.
- [130] M. Muzamal and A. Nadeem, "Improving test adequacy assessment by novel javascript mutation operators," in *2019 16th International Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 647–652, IEEE, 2019.
- [131] M. Qasim Khan, N. Afzal, I. Riasat, S. Hafeez, S. Imtiaz, and S. Marriam Bakhtiar, "Emerging trends of single cell Omics in Neuroscience Research," in *1st International Conference on Recent Updates in Biotechnology ICRUB 2019*.
- [132] S. Khurshid, M. Qasim Khan, N. A. Qureshi, I. Riasat, S. Hafeez, and S. M. Bakhtiar, "Prevention and management of cardiovascular disorders by the virtue of nuterigenetics and exercise training," in *1st International Conference on Recent Updates in Biotechnology ICRUB 2019*.
- [133] H. Khalil, M. M. Ahmed, S. Rahman, and U. Rafique, "Nose cone conformal antenna array design for X-band Radar applications," in *Proceedings of Progress In Electromagnetics Research Symposium (PIERS), Toyama, Japan*, pp. 1–3, 2018.
- [134] U. Rafique, M. M. Ahmed, M. M. Hassan, and H. Khalil, "A modified super-wideband planar elliptical monopole antenna," in *Proceedings of Progress In Electromagnetics Research Symposium (PIERS), Toyama, Japan*, pp. 1–6, 2018.
- [135] U. Rafique and S. Agarwal, "A modified Frequency Selective Surface band-stop filter for ultra-wideband applications," in *Proceedings of Second Symposium on Recent Advances in Communication Theory, Antennas and Propagation (CIAP 2018), Bangalore, India*, pp. 891–894, 2018.

- [136] H. Khalil, M. M. Ahmed, U. Rafique, S. Rahman, and M. Latif, "Design of X-band cylindrical conformal substrate integrated waveguide slot antenna array," in *Proceedings of 21st Saudi Computer Society National Computer Conference*, pp. 1–4, 2018.
- [137] S. A. Abbas, R. Samar, M. A. Rizvi, and A. I. Bhatti, "A method for multimodal optimization with application to signal processing," in *2018 15th International Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 357–364, IEEE, 2018.
- [138] W. Abbasi, I. Shah, and F. u. Rehman, "Steering algorithm for nonholonomic mechanical systems using sliding mode control," in *International Bhurban Conference on Applied Sciences and Technology*, 2018.
- [139] M. Ashraf, A. Rehman, *et al.*, "Performance analysis of current injection techniques for shunt active power filter," in *IOP Conference Series: Earth and Environmental Science*, vol. 168, p. 012014, IOP Publishing, 2018.
- [140] U. Maqbool and U. A. Khan, "Dynamic and transient analysis of a wavelet based protection scheme," in *5th International Conference on Electrical Engineering (ICEE), Lahore, Pakistan*, pp. 1–5, 2018.
- [141] R. Ara and U. A. Khan, "An alternate grid-splitting scheme and efficient algorithm for voltage source converter based multiterminal dc grid protection and restoration control," in *Power Generation Systems and Renewable Energy Technologies 2018*, 2018.
- [142] I. Hassan, "Simulating precipitation and temperature trends in pakistan using three gcms under rcp8.5 scenario," in *7th International Conference on Advances in Civil, Structural and Mechanical Engineering - CSM 2018, Rome Italy. 2018*, 2018.
- [143] N. Sohaib and Hamdanullah, "Finite element analysis of piled-raft foundation in clayey soil," in *3rd International Conference on Emerging Trends in Engineering, Management & Sciences (ICETEMS-2018), Pakistan*, 2018.
- [144] N. Sohaib, F. Seemab, G. Sana, and R. Mamoon, "Using polypropylene fibers in concrete to achieve maximum strength," in *Eighth International Conference On Advances in Civil and Structural Engineering-CSE 2018*, 2018.
- [145] S. Ismail, S. Tariq, S. Gul, and M. Ali, "Seismic construction practices of commercial RCC buildings via visual inspection in developing countries," in *Annual New Zealand Society for Earthquake Engineering Technical Conference, Auckland, New Zealand*, p. Paper P1.35, 2018.
- [146] F. Qamar, S. Qin, and M. Ali, "Estimating seismic resistance of fibrous plastering effect on mortar less interlocked masonry walling with finite element modelling," in *Annual Australian Earthquake Engineering Society Conference*, 2018.
- [147] M. U. Farooqi and M. Ali, "Effect of fibre content on splitting-tensile strength of wheat straw reinforced concrete for pavement applications," in *Key Engineering Materials*, vol. 765, pp. 349–354, Trans Tech Publ, 2018.

- [148] U. A. Khan, H. M. Jahanzaib, M. Khan, and M. Ali, "Improving the tensile energy absorption of high strength natural fiber reinforced concrete with fly-ash for bridge girders," in *Key Engineering Materials*, vol. 765, pp. 335–342, Trans Tech Publ, 2018.
- [149] F. Qamar, T. Thomas, and M. Ali, "Contribution of sisal reinforced plaster in out of plane resistance of masonry column," in *Key Engineering Materials*, vol. 765, pp. 343–348, Trans Tech Publ, 2018.
- [150] A. Zia and M. Ali, "Effectiveness of polypropylene fiber reinforced concrete in enhancement of long-term durability of hydraulic structures," in *Materials Science Forum*, vol. 923, pp. 125–129, Trans Tech Publ, 2018.
- [151] M. Khan, M. Cao, , and M. Ali, "Hybrid fiber reinforced concrete for the application of bridge deck," in *3rd FRC International Workshop on Fibre Reinforced Concrete: from Design to Structural Applications-ACI-fib-RILEM Joint Workshop, Desenzano, Lake Garda, Italy*, p. Paper 53, 2018.
- [152] T. Hussain and M. Ali, "Utilization of FRC tension zone for reinforcement reduction in slabs-a simplified approach," in *Annual Canadian Society for Civil Engineering Technical Conference, Fredericton, Canada*, p. Paper MA22, 2018.
- [153] M. Khan, M. Cao, and M. Ali, "Experimental and empirical study of basalt fiber reinforced concrete," in *Annual Canadian Society for Civil Engineering Technical Conference, Fredericton, Canada*, p. Paper MA39, 2018.
- [154] F. Qamar, T. Thomson, and M. Ali, "Effect of sisal fibrous mortar in improving out of plane resistance and damping ratio of masonry column," in *Annual Canadian Society for Civil Engg Technical Conference, Fredericton, Canada*, p. Paper ST119, 2018.
- [155] M. Sudheer, M. U. Farooqi, and M. Ali, "Case study: Flaws of concrete roads in Pakistan-possible reasons and remedial measures," in *Annual Canadian Society for Civil Engg Technical Conference, Fredericton, Canada*, p. Paper TR47, 2018.
- [156] K. Batool, , and M. Ali, "Construction practices of masonry houses in private societies of developing countries from seismic resistance aspects," in *Annual New Zealand Society for Earthquake Engg Technical Conference, Auckland, New Zealand*, p. Paper P2.01, 2018.
- [157] F. Qamar, T. Thomas, and M. Ali, "Effect of rice straw reinforced plaster in improving out-of-plane resistance of mortar-free interlocking column," in *Annual New Zealand Society for Earthquake Engg Technical Conference, Auckland, New Zealand*, p. Paper P1.12, 2018.
- [158] M. Khan, M. Cao, and M. Ali, "Effect of  $\text{CaCO}_3$  whisker, steel fiber and basalt fiber content on compressive energy absorption of concrete," in *Annual New Zealand Society for Earthquake Engg Technical Conference, Auckland, New Zealand*, p. Paper P1.10, 2018.

- [159] M. Khan, U. A. Khan, and M. Ali, “Flexural properties of high strength coconut fiber reinforced concrete for earthquake resistant structures,” in *Annual New Zealand Society for Earthquake Engg Technical Conference, Auckland, New Zealand*, p. Paper P1.11, 2018.
- [160] M. B. Ali, K. Ateeq, H. M. Ali, and S. S. S. Gardezi, “Construction delays assessment- a case study of interchange project in Pakistan,” in *13th International Congress on Advances in Civil Engineering, 12-14 September 2018, Izmir/TURKEY*, 2018.
- [161] “Transformation of 3ds jobs using building information modeling (bim) – a prospective of malaysian construction industry,”
- [162] “Evaluation of response modification factors in moment resisting frame buildings considering soil-structure interaction,”
- [163] “Simplified procedure for estimating modified response modification factor of a complex high-rise building,”
- [164] A. Ayuba, N. A. Sheikhb, R. Tariqb, and M. M. Khan, “Thermodynamic optimization of air bottoming cycle for waste heat recovery,” in *Energy Systems for Sustainable Development, Lahore*, 2018.
- [165] “A smart micro factory design: An integrated approach””, 1st international workshop on functional reverse engineering of machine tools,”
- [166] “A smart micro factory design: An integrated approach, 1st international workshop on functional reverse engineering of machine tools,”
- [167] O. Ghayyur, M. Aleem, and M. A. Islam, “Time efficient novel parallel technique for Needleman Wunsch and Smith Waterman algorithms,” in *2018 International Conference on Computing, Mathematics and Engineering Technologies (iCoMET)*, pp. 1–6, IEEE, 2018.
- [168] N. Sharif, M. T. Afzal, and U. Ahmed, “Twitter recommendation: Unary metadata features evaluation with TF/IDF using n-grams,” in *34th Information Systems Education Conference (ISECON)*, pp. 117–125, 2018.
- [169] N. Sharif and M. T. Afzal, “Metadata features evaluation for Twitter based e-learning recommendation,” in *34th Information Systems Education Conference (ISECON)*, pp. 109–116, 2018.
- [170] N. Afzal, H. Qayyum, N. I. Soomro, and S. M. Bakhtiar, “mirna silencing of streptococcus gallolyticus: a potential treatment strategy against endocarditis,” in *1st international conference on medicinal chemistry and drug discovery, Islamabad*, 2018.
- [171] H. A. Butt, S. M. Bakhtiar, A. Noor, and I. Riasat, “Genetic heterogeniety in pakistani obese families,” in *1st Annual Health Research Conference, Islamabad*, 2018.

- [172] S. I. Soomro, H. Safdar, N. I. Soomro, H. A. Butt, and S. M. Bakhtiar, “The prevalence of inflammatory disorders in obese and non-obese subjects of kahuta region,” in *1st Annual Health Research Conference*, 2018.
- [173] S. Sojla, Z. Bashir, and E. Dilshad, “Green synthesis and characterization of silver nanoparticles using alovera plant gel and their biological evaluation,” in *1st National Conference on Medicinal Plant Research, 29-31 Aug 2018 at Department of Chemistry, Karakoram International University Gilgit*, 2018.
- [174] T. D. Hooi and A. Z. Abbasi, “Place attachment of the indigenous community: Trust and readiness towards development,” in *Accepted in Association for Consumer Research, Dallas, USA*, 2018.
- [175] P. Arshad and F. Anwar, “HR leading through lean management and customer centricity at telenor shared services,” in *The European Proceedings of Social and Behavioral Sciences*, vol. XL, pp. 969–990, 2018.
- [176] S. Fatima, M. M. Hassan, and A. S. Khattak, “Knowledge diversity in the creation of project team social capital for project innovation outcome: Moderated mediating role of the type of structure,” in *3rd international conference on business management perspectives in the asian context Lahore Business School*, 2018.
- [177] A. Hashmi, A. Ahmed. S, and A. I. Bhatti, “Using IBMR for provincial water distribution,” in *International Sustainable Development Conference*, 2018.
- [178] S. Ahmed and A. Mehmood, “Prioritizing human development under CPEC,” in *International Conference on Sustainable Development through innovation in Economics and Management Sciences (ICSIDIEMS)*, 2018.
- [179] H. Khalil, S. U. Rahman, U. Rafique, and M. M. Ahmed, “Design of slot antenna array for tracking radar using particle swarm optimization,” in *Progress In Electromagnetics Research Symposium-Fall (PIERS), Singapore*, pp. 2985–2987, IEEE, 2017.
- [180] U. Rafique, H. Khalil, and S. Rehman, “Dual-band microstrip patch antenna array for future 5G communications,” in *Progress In Electromagnetics Research Symposium-Fall (PIERS), Singapore*, pp. 55–59, IEEE, 2017.
- [181] S. Rehman, U. Rafique, U. F. Ahmed, M. N. Khan, and M. M. Ahmed, “Effects of substrate on the AC performance of submicron GaN HEMTs,” in *2017 13th International Conference on Emerging Technologies (ICET)*, pp. 1–7, IEEE, 2017.
- [182] H. Khalil, S. U. Rahman, M. M. Ahmed, Q. Cao, and I. Hussain, “Design of waveguide slot array to generate sum and difference pattern for synthetic aperture radar,” in *Progress In Electromagnetics Research Symposium-Spring (PIERS)*, pp. 3632–3636, IEEE, 2017.
- [183] A. Hashmi, M. F. Hanif, and A. I. Bhatti, “Simulation and analysis of duffing oscillator using sliding mode control,” in *International Conference on Communication, Computing and Digital Systems (C-CODE)*, pp. 326–330, IEEE, 2017.

- [184] A. Yar, A. I. Bhatti, and Q. Ahmed, “High fidelity engine model for a unified control, diagnostic and condition monitoring framework,” in *American Control Conference (ACC)*, pp. 1629–1635, IEEE, 2017.
- [185] A. I. Bhatti, M. Haseeb, S. Azam, S. Fazal, and M. Ullah, “State feedback based intervention design in WNT and cell cycle network,” in *American Control Conference (ACC)*, pp. 4242–4247, IEEE, 2017.
- [186] N. Qayyum, A. I. Bhatti, and M. Liaquat, “Landing control of unmanned aerial vehicle using continuous model predictive control,” in *2017 29th Chinese Control And Decision Conference (CCDC)*, pp. 1804–1808, IEEE, 2017.
- [187] A. Hanif, Q. Ahmed, A. I. Bhatti, and G. Rizzoni, “Genetic algorithms optimized multi-objective controller for an induction machine based electrified powertrain,” in *2017 IEEE Conference on Control Technology and Applications (CCTA)*, pp. 853–858, IEEE, 2017.
- [188] G. Murtaza, Q. Ahmed, A. I. Bhatti, and G. Rizzoni, “An alternate control framework development for atkinson cycle engine using variable late intake valve,” in *2017 IEEE Conference on Control Technology and Applications (CCTA)*, pp. 866–871, IEEE, 2017.
- [189] M. U. Farooqi and M. Ali, “Short-term durability of wheat straw reinforced concrete for pavement applications,” in *5th International Conference on Infrastructure Engineering in Developing Countries (IEDC-2017)*, NED, Karachi, 2017.
- [190] M. D. Hashmat, A. S. Sultan, S. Rahman, S. M. Hussain, S. A. Ali, *et al.*, “Flowing gels for loss circulation prevention,” in *SPE Kingdom of Saudi Arabia Annual Technical Symposium and Exhibition*, Society of Petroleum Engineers, 2017.
- [191] A. Khalid, P. Kirisci, Z. Ghrairi, K. D. Thoben, and J. Pannek, “Towards implementing safety and security concepts for human-robot collaboration in the context of industry 4.0,” in *Proceedings of the 39th International MATADOR Conference on Advanced Manufacturing, Manchester, UK*, 2017.
- [192] A. Khalid, P. Kirisci, Z. Ghrairi, J. Pannek, and K.-D. Thoben, “Safety requirements in collaborative human-robot cyber-physical system,” in *Dynamics in Logistics*, pp. 41–51, Springer, 2017.
- [193] U. B. Nisar, M. Aleem, M. A. Iqbal, and N.-S. Vo, “Jumbler: A lock-contention aware thread scheduler for multi-core parallel machines,” in *International Conference on Recent Advances in Signal Processing, Telecommunications & Computing (SigTelCom)*, pp. 77–81, IEEE, 2017.
- [194] M. Mateen, M. A. Iqbal, M. Aleem, and M. A. Islam, “A hybrid approach for spam detection for Twitter,” in *2017 14th International Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 466–471, IEEE, 2017.

- [195] I. Asra, M. A. Islam, M. A. Iqbal, and M. Aleem, “Graph centrality based spam detection,” in *IEEE International Bhurban Conference on Applied Sciences and Technology (IBCAST), Bhurban, Islamabad.*, 2017.
- [196] M. Badri, M. Aleem, M. A. Islam, M. A. Iqbal, and M. Waqar, “A fast implementation of minimum spanning tree method and applying it to kruskal’s and prim’s algorithms,” in *International Conference on Computing and Mathematical Sciences (ICCMS)*, pp. 10–15, 2017.
- [197] R. Khan, M. A. Islam, *et al.*, “Quantification of PIR protocols privacy,” in *International Conference on Communication, Computing and Digital Systems (C-CODE)*, pp. 90–95, IEEE, 2017.
- [198] A. Muhammad and M. A. Islam, “Performance evaluation of matrix multiplication in virtual machine,” in *International Conference on Communication, Computing and Digital Systems (C-CODE)*, pp. 205–210, IEEE, 2017.
- [199] Q. Mahmood, M. A. Qadir, and M. T. Afzal, “OntoDocRel-CBS: Ontology for modelling content based document similarity measures,” in *15th International Conference on Frontiers of Information Technology (FIT)*, 2017.
- [200] L. Zafar, M. T. Afzal, and U. Ahmed, “Exploiting polarity features for developing sentiment analysis tool,” in *Proceedings of the 3rd International Workshop on Emotions, Modality, Sentiment Analysis and the Semantic Web, co-located with 14th ESWC 2017, Portoroz, Slovenia*, 2017.
- [201] M. I. Khan, “Impact of individual personality on entrepreneurial intention: Mediating role of entrepreneurial passion and moderating role of individual network,” in *The 27th International Conference on the Pacific Rim Management, Los Angeles*, 2017.
- [202] M. I. Khan and I. Butt, “Impact of social identity on entrepreneurial intention: Mediating role of entrepreneurial passion, moderating role of market orientation,” in *The 27th International Conference on the Pacific Rim Management, Los Angeles*, 2017.
- [203] M. I. Khan and I. Haider, “Sustainable engagement: A strategic framework for responsible SMEs in South Asia region,” in *Sustainability, Ethics, and Entrepreneurship (SEE) Academic Research Conference, Carolina, USA*, 2017.
- [204] S. Ahmed, “Welfare and economic impact of food and financial crisis on Pakistan,” in *Marginalization and Social Exclusion in the Perspective of Market Economy*, 2017.
- [205] M. Rashad, D. M. Minhas, M. Ashraf, and S. Hussain, “PFC topologies for AC to DC converters in DC micro-grid,” in *2016 18th Mediterranean Electrotechnical Conference (MELECON)*, pp. 1–6, IEEE, 2016.
- [206] D. M. Minhas, M. Rashad, S. Hussain, and M. Ashraf, “Cost effective bidirectional power transactions for queueing energy requests in smart micro-grids,” in *2016 18th Mediterranean Electrotechnical Conference (MELECON)*, pp. 1–6, IEEE, 2016.

- [207] N. Fatima, M. M. Ahmed, K. S. Karimov, and K. Ahmedov, “Humidity effect on organic semiconductor NiPc films deposited at different gravity conditions,” in *IOP Conference Series: Materials Science and Engineering*, vol. 146, p. 012035, IOP Publishing, 2016.
- [208] N. Fatima, M. M. Ahmed, and K. S. Karimov, “Effect of heating on the impedance of NiPc based organic field effect transistor,” in *Proceedings of the 2016 International Conference on Industrial Engineering and Operations Management*, pp. 2667–2674, 2016.
- [209] A. M. Khan, M. M. Ahmed, M. Rafiq, and U. Rafique, “Breakdown in a high power microwave antenna,” in *2016 International Conference on Emerging Technologies (ICET)*, pp. 1–5, IEEE, 2016.
- [210] A. M. Khan, M. M. Ahmed, M. Rafiq, and U. Rafique, “Design of an efficient high power microwave antenna,” in *2016 19th International Multi-Topic Conference (INMIC)*, pp. 1–6, IEEE, 2016.
- [211] S. S. Saleem, M. M. Ahmed, U. Rafique, and U. F. Ahmed, “Optimization of linear antenna array for low SLL and high directivity,” in *2016 19th International Multi-Topic Conference (INMIC)*, pp. 1–6, IEEE, 2016.
- [212] A. Hanif, A. I. Bhatti, and Q. Ahmed, “Estimation of thermally de-rated torque of an HEV drive using robust LPV observer,” in *American Control Conference (ACC)*, pp. 1530–1535, IEEE, 2016.
- [213] A. Hanif, S. M. N. Ali, Q. Ahmed, A. Bhatti, G. Yin, and M. H. Jaffery, “Effect of variation in rotor resistance on the dynamic performance of induction motor,” in *2016 35th Chinese Control Conference (CCC)*, pp. 9524–9529, IEEE, 2016.
- [214] A. R. Yasin, M. Ashraf, A. I. Bhatti, S. Ahmad, and M. Rashid, “Sliding mode control for efficient utilization of renewable energy sources in DC micro grid: A comparison with a linear PID controller,” in *2016 International Conference and Exposition on Electrical and Power Engineering (EPE)*, pp. 621–625, IEEE, 2016.
- [215] I. Khan, A. I. Bhatti, R. Anjum, and Q. Khan, “Constructive mechanism of lead/lag design for a class of linear systems,” in *2016 International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2016.
- [216] Y. A. Butt and A. I. Bhatti, “Exponential stabilization of kinematic nonholonomic systems using adaptive backstepping,” in *2016 International Conference on Emerging Technologies (ICET)*, pp. 1–5, IEEE, 2016.
- [217] G. Murtaza, Y. A. Butt, and A. I. Bhatti, “Higher order sliding mode based control scheme for air path of diesel engine,” in *2016 International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2016.

- [218] S. A. Shaukat, K. Munawar, M. Arif, A. I. Bhatti, U. I. Bhatti, and U. M. Al-Saggaf, “Robust vehicle localization with GPS dropouts,” in *2016 6th International Conference on Intelligent and Advanced Systems (ICIAS)*, pp. 1–6, IEEE, 2016.
- [219] M. U. Farooqi and M. Ali, “Compressive behavior of wheat straw reinforced concrete for pavement applications,” in *4th International Conference on Sustainable Construction Materials and Technologies*, 2016.
- [220] M. U. Farooqi and M. Ali, “Compressive behavior of wheat straw reinforced concrete for pavement applications,” in *4th International Conference on Sustainable Construction Materials and Technologies, Las Vegas, USA*, 2016.
- [221] M. A. U. R. Tariq, “Pakistan’s flood management and safety standards in context of water resources pricing. Soil and water resources: utilization, allocation and pricing,” in *Department of Irrigation and Drainage, FAE&T and Water Management Research Centre, Faisalabad, Pakistan*, 2016.
- [222] M. U. Farooqi and M. Ali, “Flexural behavior of wheat straw reinforced concrete for pavement applications,” in *36th Cement and Concrete Science Conference, Cardiff, UK*, 2016.
- [223] M. D. Hashmat, A. S. Sultan, S. Rahman, S. M. Hussain, *et al.*, “Crosslinked polymeric gels as loss circulation materials: an experimental study,” in *SPE Kingdom of Saudi Arabia Annual Technical Symposium and Exhibition*, Society of Petroleum Engineers, 2016.
- [224] K. Shaukat, N. Masood, S. Mehreen, F. Haider, A. Bakar, and U. Shaukat, “Population of data in web-tables schema,” in *2016 19th International Multi-Topic Conference (INMIC)*, pp. 1–6, IEEE, 2016.
- [225] R. Ahmad, M. T. Afzal, and M. A. Qadir, “Information extraction from PDF sources based on rule-based system using integrated formats,” in *Semantic Web Evaluation Challenge*, pp. 293–308, Springer, 2016.
- [226] M. Ullah, R. Khan, and M. A. Islam, “Poshida, a protocol for private information retrieval,” in *2016 Sixth International Conference on Innovative Computing Technology (INTECH)*, pp. 464–470, IEEE, 2016.
- [227] R. Khan, M. Ullah, and M. A. Islam, “Revealing PIR protocols protected users,” in *2016 Sixth International Conference on Innovative Computing Technology (INTECH)*, pp. 535–541, IEEE, 2016.
- [228] R. Asif and M. A. Islam, “Finding most collaborating mathematicians a co-author network analysis of mathematics domain,” in *2016 International Conference on Computing, Electronic and Electrical Engineering (ICE Cube)*, pp. 289–293, IEEE, 2016.
- [229] H. Jafar and M. A. Islam, “Evaluation of graph centrality measure for tweet topic classification,” in *International conference on Computing, Electronic and Electrical Engineering (ICE Cube)*, 2016.

- [230] Z. Hassan, M. A. Qadir, M. A. Islam, U. Shahzad, and N. Akhter, “Modified MinG algorithm to find top-K shortest paths from large RDF graphs,” in *Semantic Web Evaluation Challenge*, pp. 213–227, Springer, Cham, 2016.
- [231] Z. Ul-Abdin, M. Shafique, and M. A. Qadir, “Telemedicine aware video coding under very-low bitrates,” in *International Conference. Health Informatics and Medical Systems*, 2016.
- [232] A. Haider, A. Nadeem, and S. Akram, “Regression test suite optimization using adaptive neuro fuzzy inference system,” in *14th International Conference on Frontiers of Information Technology (FIT 2016) Islamabad, Pakistan*, 2016.
- [233] A. Haider, A. Nadeem, and S. Akram, “Safe regression test suite optimization: A review,” in *International Conference on Open Source Systems & Technologies (ICOSST 2016), Lahore, Pakistan*, 2016.
- [234] A. Qayyum, M. Shoaib, I. Faye, and A. R. Kashif, “Refinements of some new efficient quadrature rules,” in *AIP Conference Proceedings*, vol. 1787, p. 080003, AIP Publishing, 2016.
- [235] M. I. e. a. Khan, “Impact of social media marketing on customer purchase intention: Mediating role of customer trust (marketing and communication in connected environment),” in *14th International Conference of the Society for Global Business & Economic Development (SGBED), New Jersey, USA*, 2016.
- [236] M. Asif, I. A. Taj, S. Ziauddin, M. B. Ahmad, and M. Tahir, “An efficient scheme for intra prediction block size and mode selection in advanced video coding,” in *2015 13th International Conference on Frontiers of Information Technology (FIT)*, pp. 211–215, IEEE, 2015.
- [237] M. Z. Baig, Y. Mehmood, E. Javed, and I. Taj, “A novel: Exploiting GPU parallel processing for AFIS performance improvement,” in *2nd International Conference on Engineering & Emerging Technologies (ICEET)*, 2015.
- [238] M. Riaz, M. Ashraf, K. S. Hong, G. H. Kim, and M. Rehan, “Adaptive synchronization of two different chaotic systems containing mutually Lipschitz nonlinearities subject to state time-delays,” in *2015 15th International Conference on Control, Automation and Systems (ICCAS)*, pp. 60–65, IEEE, 2015.
- [239] Y. A. Butt, A. I. Bhatti, and Y. L. Sachkov, “Integrability by quadratures in optimal control of a unicycle on hyperbolic plane,” in *American Control Conference (ACC)*, pp. 4251–4256, IEEE, 2015.
- [240] Q. Khan, A. I. Bhatti, and R. Akmeliawati, “Robust stabilization of underactuated systems via fast terminal sliding mode,” in *2015 10th Asian Control Conference (ASCC)*, pp. 1–6, IEEE, 2015.

- [241] M. Z. Babar, R. Samar, A. I. Bhatti, and M. Baglietto, “Robust integrated lateral guidance and control of UAVs,” in *2015 20th International Conference on Methods and Models in Automation and Robotics (MMAR)*, pp. 523–528, IEEE, 2015.
- [242] S. Rahman, M. E. Kandil, N. Al-Saifi, A. S. Sultan, *et al.*, “Measurements of volumetric phase behavior of mixtures of n-decane and  $CO_2$  at high pressures and high temperatures,” in *SPE Saudi Arabia Section Annual Technical Symposium and Exhibition*, Society of Petroleum Engineers, 2015.
- [243] M. Rafique, M. T. Nawaz, R. D. Evans, and M. Agha, “Analysing success factors in the development of absorptive capacity in pharmaceutical organisations based in Pakistan,” in *9th International Conference on Business Administration (ICBA’15), Dubai, UAE*, World Scientific and Engineering Academy and Society, 2015.
- [244] M. Imran, M. T. Afzal, and M. A. Qadir, “Similarity-based malware classification using hidden markov model,” in *2015 Fourth International Conference on Cyber Security, Cyber Warfare, and Digital Forensic (CyberSec)*, pp. 129–134, IEEE, 2015.
- [245] M. Imran, M. T. Afzal, and M. A. Qadir, “Using hidden markov model for dynamic malware analysis: First impressions,” in *2015 12th International Conference on Fuzzy Systems and Knowledge Discovery (FSKD)*, pp. 816–821, IEEE, 2015.
- [246] N. Sharif and M. T. Afzal, “Recommendation approaches for e-learners: A survey,” in *Proceedings of the 7th International Conference on Management of computational and collective intelligence in Digital EcoSystems*, pp. 137–141, ACM, 2015.
- [247] R. Ahmad and M. T. Afzal, “Research paper recommendation by exploiting co-citation occurrences in generic sections of scientific papers,” in *PhD Symposium at 13th International Conference on Frontiers of Information Technology*, 2015.
- [248] M. Tahir, Z. Ul-Abdin, and M. A. Qadir, “Enhancing the HEVC video analyzer for medical diagnostic videos,” in *2015 12th International Conference on High-Capacity Optical Networks and Enabling/Emerging Technologies (HONET)*, pp. 1–5, IEEE, 2015.
- [249] Z. Ul-Abdin, M. Shafique, and M. A. Qadir, “Evaluating video codecs for telemedicine under very-low bitrates,” in *2015 8th International Congress on Image and Signal Processing (CISP)*, pp. 98–103, IEEE, 2015.
- [250] I. Ihsan and M. A. Qadir, “Querying semantically related items using modified 4-index scheme for XML documents,” in *2015 13th International Conference on Frontiers of Information Technology (FIT)*, pp. 47–52, IEEE, 2015.
- [251] U. Farooq, T. P. Dhamala, A. Nongailard, Y. Ouzrout, and M. A. Qadir, “A word sense disambiguation method for feature level sentiment analysis,” in *2015 9th International Conference on Software, Knowledge, Information Management and Applications (SKIMA)*, pp. 1–8, IEEE, 2015.

- [252] I. Ihsan, M. A. Qadir, F. F. Kiyani, and M. ur Rehman, "Semantic indexing for XML documents using RDBMS," in *2015 International Conference on Information and Communication Technologies (ICICT)*, pp. 1–5, IEEE, 2015.
- [253] A. Hussain, A. Nadeem, and M. T. Ikram, "Review on formalizing use cases and scenarios: Scenario based testing," in *2015 International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2015.
- [254] M. Touseef, N. A. Butt, A. Hussain, and A. Nadeem, "Testing from UML design using activity diagram: A comparison of techniques," in *11th International Conference on Emerging Technologies (ICET 2015), Peshawar*, 2015.
- [255] M. Rizwan, A. Nadeem, and M. B. Khan, "An evaluation of software fault tolerance techniques for optimality," in *2015 International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2015.
- [256] Q. u. Zaman, M. A. Sindhu, and A. Nadeem, "Formalizing a use case to a kripke structure," in *International Software Engineering and Applications (SEA 2015), Marina del Rey, USA*, 2015.
- [257] J. Khurshid and M. I. Khan, "Development of integral model for women entrepreneurship in South Asia," in *60th Annual ICSB World Conference Dubai, UAE*, 2015.
- [258] Z. Riaz and M. I. Khan, "Impact of service failure severity and agreeableness on consumer switchover intentions: Mediating role of consumer forgiveness," in *4th International Conference on emerging trends in Management, Islamabad*, 2015.
- [259] J. Khurshid and M. I. Khan, "Investigation of factors affecting women entrepreneurship in Pakistan," in *2nd International Conference: Challenges in Business & Management, Islamabad*, 2015.
- [260] M. Mubashir and M. I. Khan, "The impact of corporate social responsibility on consumer loyalty with mediation of customer satisfaction in banking industry of Pakistan," in *2nd International Conference: Challenges in Business & Management, Islamabad*, 2015.
- [261] M. S. Akbar, K. A. Khaliq, R. N. B. Rais, and A. Qayyum, "Information-centric networks: categorizations, challenges, and classifications," in *2014 23rd Wireless and Optical Communication Conference (WOCC)*, pp. 1–5, IEEE, 2014.
- [262] M. Asif, S. Majeed, I. A. Taj, M. B. Ahmed, and S. M. Ziauddin, "Exploiting MB level parallelism in H. 264/AVC encoder for multi-core platform," in *2014 IEEE/ACS 11th International Conference on Computer Systems and Applications (AICCSA)*, pp. 125–130, IEEE, 2014.
- [263] U. Ali, M. Z. Shah, A. I. Bhatti, and R. Samar, "Robust nonlinear control design for scaled Yak-54 Unmanned Aerial Vehicle," in *The 26th Chinese Control and Decision Conference (CCDC)*, pp. 713–718, IEEE, 2014.

- [264] A. Hanif, A. I. Bhatti, A. R. Yassin, G. Murtaza, and Q. Ahmed, "Sliding mode-based observer design for field-oriented control of induction machine drive for applications in hybrid electric vehicles," in *2014 33rd Chinese Control Conference (CCC)*, pp. 263–268, IEEE, 2014.
- [265] M. Muzammel, G. Shabbir, and U. Rafique, "Energy efficient approach for clustering algorithm in wireless sensor networks," in *Proceedings of 17th International Multi Topic Conference (INMIC 2014)*, pp. 46–51, IEEE, 2014.
- [266] U. Rafique, S. A. Ali, and G. Shabbir, "Ultra-wideband patch antenna for microwave communications," in *Proceedings of 17th International Multi Topic Conference (INMIC 2014)*, pp. 10–13, IEEE, 2014.
- [267] A. Khalid and Z. H. Khan, "Multi-objective optimization for error compensation in intelligent micro-factory CPS," in *Computational Intelligence for Decision Support in Cyber-Physical Systems*, pp. 67–103, Springer, 2014.
- [268] A. Hussain, Z. H. Khan, A. Khalid, and M. Iqbal, "A comparison of pulse compression techniques for ranging applications," in *Computational Intelligence for Decision Support in Cyber-Physical Systems*, pp. 169–191, Springer, 2014.
- [269] A. Wahab, A. Khalid, and R. Nawaz, "Non-contact metrology inspection system for precision micro products," in *2014 International Conference on Robotics and Emerging Allied Technologies in Engineering (iCREATE)*, pp. 151–156, IEEE, 2014.
- [270] A. Khalid and A. Nawaz, "Sensor less control of DC motor using kalman filter for low cost CNC machine," in *2014 International Conference on Robotics and Emerging Allied Technologies in Engineering (iCREATE)*, pp. 180–185, IEEE, 2014.
- [271] Q. Mahmood, M. A. Qadir, and M. T. Afzal, "Finding relatedness between research papers using similarity and dissimilarity scores," in *International Conference on Web-Age Information Management*, pp. 707–710, Springer, 2014.
- [272] S. Tahir and M. T. Afzal, "A novel phylogenetic tree data visualization application for researchers," in *Science and Information Conference (SAI)*, pp. 93–99, IEEE, 2014.
- [273] N. Masood and N. Andleeb, "A taxonomy of changes in schema evolution," in *2014 International Conference on Computational Science and Technology (ICCST)*, pp. 1–6, IEEE, 2014.
- [274] M. Aleem, R. Prodan, and C. Bologna, "Using JAVA for programming heterogeneous manycore parallel computers," in *3rd International Conference Theory and Practice in Modern Computing. IADIS Lisbon, Portugal*, 2014.
- [275] P. A. Shah, H. B. Hasbullah, S. Rafique, S. U. Rehman, and L. T. Jung, "Fuzzy logic based link status classification for efficient multipath routing in multi-hop wireless mesh networks," in *2014 International Conference on Computer and Information Sciences (ICCOINS)*, pp. 1–6, IEEE, 2014.

- [276] M. B. Bashir and A. Nadeem, “A state-based fitness function for the integration testing of object-oriented programs,” in *2014 International Conference on Emerging Technologies (ICET)*, pp. 24–29, IEEE, 2014.
- [277] F. S. Khan and M. I. Khan, “Impact of corporate social responsibility on consumer purchase intension with mediating role of customer company identification,” in *4th International Conference on Business Management, Development, Competitive and Innovation, IBA Sukkur*, 2014.
- [278] M. Irshad and M. I. Khan, “Evaluating consumer based brand equity and its impact on purchase intentions: A moderating role of word of mouth,” in *4th International Conference on Business Management, Development, Competitive and Innovation, IBA Sukkur*, 2014.
- [279] A. Zaheer, S. Naz, A. Rasheed, K. A. Khaliq, T. Javed, and A. Qayyum, “Smart trimming of video from edge, for fine-grained adaptive multicast,” in *2013 IEEE 9th International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2013.
- [280] M. Ashraf and M. Aslam, “Impedance matching for underwater piezoelectric transducers using piezoelectric transformer,” in *2013 10th International Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 308–311, IEEE, 2013.
- [281] F. A. Mughal, M. M. Ahmed, K. Hayat, U. Rafique, and Q. D. Memon, “A wideband power divider for microwave applications,” in *2013 IEEE 9th International Conference on Emerging Technologies (ICET)*, pp. 1–5, IEEE, 2013.
- [282] W. Afzal, M. M. Ahmed, and F. A. Mughal, “L-shaped multiband microstrip patch antenna for DCS and WLAN applications,” in *2013 IEEE 9th International Conference on Emerging Technologies (ICET)*, pp. 1–5, IEEE, 2013.
- [283] M. M. Ahmed, N. M. Memon, and S. A. Moiz, “Effects of interfacial layer on submicron GaAs MESFETs characteristics,” in *2013 IEEE 9th International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2013.
- [284] Q. D. Memon, M. M. Ahmed, N. M. Memon, and U. Rafique, “An efficient mechanism to simulate DC characteristics of GaAs MESFETs using swarm optimization,” in *2013 IEEE 9th International Conference on Emerging Technologies (ICET)*, pp. 1–5, IEEE, 2013.
- [285] M. A. Bashir, M. M. Ahmed, U. Rafique, and Q. D. Memon, “Design of a Ku-band high gain low noise amplifier,” in *2013 IEEE International RF and Microwave Conference (RFM)*, pp. 168–171, IEEE, 2013.
- [286] F. A. Mughal, M. M. Ahmed, and U. Rafique, “An efficient power divider for dual-band microwave applications,” in *2013 11th International Conference on Frontiers of Information Technology (FIT)*, pp. 42–44, IEEE, 2013.
- [287] S. A. Moiz, A. M. Nahhas, H. Nasir, K. S. Karimov, and M. M. Ahmed, “Electrical properties of Ag-silicon Schottky diode with orange-dye as interface layer deposited at

- various gravity accelerations,” in *2013 Saudi International Electronics, Communications and Photonics Conference (SIECPC)*, pp. 1–5, IEEE, 2013.
- [288] M. Asad, S. Iqbal, and A. I. Bhatti, “MIMO sliding mode controller design using inverse hyperbolic function,” in *2013 10th International Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 54–62, IEEE, 2013.
- [289] M. R. Azam, A. I. Bhatti, A. Arshad, and M. Z. Babar, “Sensitivity analysis of WNT signaling pathway,” in *2013 10th International Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 122–127, IEEE, 2013.
- [290] A. Tahir, S. Iqbal, A. I. Bhatti, and M. Pervaiz, “Steadiness of real time inverted pendulum,” in *2013 10th International Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 68–72, IEEE, 2013.
- [291] S. U. Ali, M. Z. Shah, R. Samar, and A. I. Bhatti, “Lateral control of UAVs: Trajectory tracking via higher-order sliding modes,” in *2013 9th Asian Control Conference (ASCC)*, pp. 1–6, IEEE, 2013.
- [292] F. Tahir, Q. Ahmed, and A. I. Bhatti, “Real-time switched model predictive control of a twin rotor system,” in *2013 IEEE 52nd Annual Conference on Decision and Control (CDC)*, pp. 4847–4852, IEEE, 2013.
- [293] M. Z. Babar, S. U. Ali, M. Z. Shah, R. Samar, A. I. Bhatti, and W. Afzal, “Robust control of UAVs using H8 control paradigm,” in *2013 IEEE 9th International Conference on Emerging Technologies (ICET)*, pp. 1–5, IEEE, 2013.
- [294] M. Asad, A. I. Bhatti, and S. Iqbal, “Digital phase locked loop design using discrete time sliding mode loop filter,” in *2013 IEEE 9th International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2013.
- [295] M. B. Bashir, T. Malik, and T. Afzal, “SSTCSC: A semantic structure of test cases and source code,” in *2013 11th International Conference on Frontiers of Information Technology (FIT)*, pp. 241–246, IEEE, 2013.
- [296] Q. Mahmood, M. A. Qadir, and M. T. Afzal, “Document similarity detection using semantic social network analysis on RDF citation graph,” in *2013 IEEE 9th International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2013.
- [297] R. Mehmood, M. T. Afzal, and H. Maurer, “Knowledge discovery in hash tags,” in *2013 IEEE 9th International Conference on Emerging Technologies (ICET)*, IEEE, 2013.
- [298] A. Sohail, M. T. Afzal, and J. Ahmad, “Discovery of medical experts,” in *2013 IEEE 9th International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2013.
- [299] Z. Babar, M. Waqas, Z. Halim, and M. A. Islam, “Genetic programming based degree constrained spanning tree extraction,” in *2013 Eighth International Conference on Digital Information Management (ICDIM)*, pp. 241–246, IEEE, 2013.

- [300] U. Farooq, Y. Ouzrout, A. Nongaillard, and M. A. Qadir, “Product reputation evaluation: The impact of conjunction on sentiment analysis,” in *7th Int. Conf. Software, Knowledge, Information Management and Applications (SKIMA 2013)*, pp. 590–602, 2013.
- [301] S. A. Khan and A. Nadeem, “Automated test data generation for coupling based integration testing of object oriented programs using particle swarm optimization (PSO),” in *7th International Conference on Genetic and Evolutionary Computing (ICGEC)*, pp. 115–124, 2013.
- [302] M. B. Bashir and A. Nadeem, “A fitness function for evolutionary mutation testing of object-oriented programs,” in *2013 IEEE 9th International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2013.
- [303] S. A. Khan and A. Nadeem, “Coupling based integration testing: A fitness function,” in *2013 IEEE 9th International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2013.
- [304] S. A. Khan and A. Nadeem, “A tool for data flow testing using evolutionary approaches (ETODF),” in *2013 IEEE 9th International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2013.
- [305] T. Masood, A. Nadeem, and S. Ali, “An automated approach to regression testing of web services based on WSDL operation changes,” in *2013 IEEE 9th International Conference on Emerging Technologies (ICET)*, pp. 1–5, IEEE, 2013.
- [306] A. A. Haider, A. Nadeem, and S. Rafiq, “Computational intelligence and safe reduction of test suite,” in *2013 IEEE 9th International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2013.
- [307] A. A. Haider, A. Nadeem, and S. Rafiq, “On the fly test suite optimization with fuzzyoptimizer,” in *2013 11th International Conference on Frontiers of Information Technology (FIT)*, pp. 101–106, IEEE, 2013.
- [308] S. U. Rehman and A. Nadeem, “A critical analysis, Saudi international electronics,” in *Communications and Photonics Conference (SIECPC 2013), Riyadh, KSA*, IEEE, 2013.
- [309] S. A. Khan and A. Nadeem, “Automated test data generation for coupling based integration testing of object oriented programs using evolutionary approaches,” in *2013 Tenth International Conference on Information Technology: New Generations (ITNG)*, pp. 369–374, IEEE, 2013.
- [310] A. Khan and M. I. Khan, “Consequences of work family conflicts on employee performance: Meditating role of job satisfaction (an empirical study of nursing industry of Pakistan),” in *International Research Conference on Contemporary Management Practices, Lahore*, 2013.

- [311] P. A. Shah, M. Yousaf, A. Qayyum, and H. B. Hasbullah, "Effectiveness of multi-homing and parallel transmission during and after the vertical handover," in *2012 International Conference on Computer & Information Science (ICCIS)*, vol. 2, pp. 625–629, IEEE, 2012.
- [312] P. A. Shah, S. Yasmin, S. Asghar, A. Qayyum, and H. B. Hasbullah, "A fluid flow model for SCTP traffic over the internet," in *2012 International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2012.
- [313] E. Elahi, A. Qayyum, and S. Naz, "The effect of payload length on QoS in IEEE 802.11s wireless mesh networks," in *2012 18th IEEE International Conference on Networks (ICON)*, pp. 70–73, IEEE, 2012.
- [314] S. Kanwal, I. A. Taj, and A. Farooq, "A novel classification technique for cancer diagnostics based on microarray gene expression profiling (MGEP)," in *2012 International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2012.
- [315] W. Ahmed, I. A. Taj, M. Ghafoor, and K. Shahzad, "Polar binary encoding of iris texture for real-time personal identification," in *2012 International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2012.
- [316] S. A. Moiz, S. M. Imran, A. M. Nahhas, F. Rehman, M. M. Ahmed, H.-T. Kim, and J.-H. Lee, "Polaron hopping mechanism of conducting polymer," in *2012 International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2012.
- [317] U. Rafique, S. A. Ali, M. A. Khan, and M. M. Ahmed, "A wideband slot-coupled inverted microstrip patch antenna for wireless communications," in *2012 International Conference on Emerging Technologies (ICET)*, pp. 1–4, IEEE, 2012.
- [318] W. Afzal, U. Rafique, M. M. Ahmed, M. A. Khan, and F. A. Mughal, "A tri-band H-shaped microstrip patch antenna for DCS and WLAN applications," in *2012 19th International Conference on Microwave Radar and Wireless Communications (MIKON)*, vol. 1, pp. 256–258, IEEE, 2012.
- [319] I. Khan, A. I. Bhatti, Q. Khan, and Q. Ahmad, "Sliding mode control of lateral dynamics of an AUV," in *2012 9th International Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 27–31, IEEE, 2012.
- [320] S. S. H. Rizvi, A. I. Bhatti, Q. Khan, Q. Ahmad, A. Hameed, and Z. Butt, "Smooth sliding mode control for PEM fuel cell system," in *2012 24th Chinese Control and Decision Conference (CCDC)*, pp. 3557–3562, IEEE, 2012.
- [321] U. Ali, M. Z. Shah, R. Samar, and A. I. Bhatti, "Robust level flight control design for scaled Yak-54 unmanned aerial vehicle using single sliding surface," in *2012 24th Chinese Control and Decision Conference (CCDC)*, pp. 1209–1214, IEEE, 2012.
- [322] S. S. H. Rizvi, A. I. Bhatti, Q. Khan, Q. Ahmad, and A. Hameed, "HOSM control design of PEM fuel cell using super twisting algorithm," in *2012 9th International*

*Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 43–50, IEEE, 2012.

- [323] G. Murtaza and A. I. Bhatti, “Control of DC motors using sliding mode,” in *2012 9th International Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 37–42, IEEE, 2012.
- [324] M. A. Rizvi, Q. Raza, A. I. Bhatti, S. Zaidi, and M. Khan, “Modeling and simulation of SI engines for fault detection,” in *Internal Combustion Engines*, InTech, 2012.
- [325] M. Asad, A. I. Bhatti, and S. Iqbal, “A novel reaching law for smooth sliding mode control using inverse hyperbolic function,” in *2012 International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2012.
- [326] Y. A. Butt and A. I. Bhatti, “Robust altitude tracking of a helicopter using sliding mode control structure,” in *2012 International Conference on Emerging Technologies (ICET)*, pp. 1–7, IEEE, 2012.
- [327] A. Yar and A. I. Bhatti, “Control of air-to-fuel ratio of spark ignited engine using super twisting algorithm,” in *2012 International Conference on Emerging Technologies (ICET)*, pp. 1–5, IEEE, 2012.
- [328] A. Arshad, A. I. Bhatti, R. Samar, Q. Ahmed, and E. Aamir, “Model development of ucg and calorific value maintenance via sliding mode control,” in *2012 International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2012.
- [329] M. A. Rizvi, S. S. H. Zaidi, M. A. Akram, and A. I. Bhatti, “Misfire fault detection in SI engine using sliding mode observer,” in *IECON 2012-38th Annual Conference on IEEE Industrial Electronics Society*, pp. 5114–5119, IEEE, 2012.
- [330] M. Z. Shah, R. Samar, and A. I. Bhatti, “Cross-track control of UAVs during circular and straight path following using sliding mode approach,” in *2012 12th International Conference on Control, Automation and Systems (ICCAS)*, pp. 185–190, IEEE, 2012.
- [331] N. Mehdi, F. M. Malik, A. I. Bhatti, and N. Qaiser, “Sampled data dynamic surface control for inertia wheel pendulum,” in *2012 International Conference on Robotics and Artificial Intelligence (ICRAI)*, pp. 91–95, IEEE, 2012.
- [332] G. A. Mirza, N. Masood, and S. Asghar, “Formal representation and resolution of null value conflict in database integration, Wuhan, China,” in *The 2nd IEEE Conference on Computer and Management*, vol. 2, pp. 1527–1533, 2012.
- [333] S. Gillani, S. Naz, M. Naeem, M. T. Afzal, and A. Qayyum, “ERRAGMap: visualization tool,” in *2012 8th International Conference on Information Science and Digital Content Technology (ICIDT)*, vol. 3, pp. 736–740, IEEE, 2012.
- [334] S. Naz, M. Naeem, M. T. Afzal, and A. Qayyum, “Expertise identification and visualization,” in *2012 8th International Conference on Computing and Networking Technology (ICCNT)*, pp. 16–20, IEEE, 2012.

- [335] N. Sharif, M. T. Afzal, and D. Helic, “A framework for resource recommendations for learners using social bookmarking,” in *2012 8th International Conference on Computing and Networking Technology (ICCNT)*, pp. 71–76, IEEE, 2012.
- [336] S. A. Khan, M. T. Afzal, and M. A. Qadir, “Exploiting title-keywords relation to develop concept classifier for scientific community,” in *International Conference on Networked Digital Technologies*, pp. 438–448, Springer Berlin Heidelberg, 2012.
- [337] M. Ahmad, M. A. Qadir, T. Ali, M. A. Abbas, and M. T. Afzal, “Semantic cache system,” in *Semantics in Action-Applications and Scenarios*, InTech, 2012.
- [338] M. A. Abbas, M. A. Qadir, and M. T. Afzal, “Semantic cache reasoners,” in *Semantics-Advances in Theories and Mathematical Models*, InTech, 2012.
- [339] M. A. Abbas, M. A. Qadir, M. Ahmad, and T. Ali, “Semantic aware implication and satisfiability for conjunctive queries in semantic caching,” in *International Conference on Networked Digital Technologies*, pp. 44–54, Springer, Berlin, Heidelberg, 2012.
- [340] S. Z. Ahmad, M. A. Qadir, and S. Khan, “Adaptive path ranking technique for maximization of gains of bandwidth aggregation over heterogeneous wireless links,” in *2012 Seventh International Conference on Broadband, Wireless Computing, Communication and Applications (BWCCA)*, pp. 127–134, IEEE, 2012.
- [341] A. Khan and M. I. Khan, “The impact of work family conflict on employee’s performance in the nursing industry of Pakistan),” in *International Conference on Emerging Trends in Management, Islamabad*, 2012.
- [342] M. B. Bashir and A. Nadeem, “Control oriented mutation testing for detection of potential software bugs,” in *2012 10th International Conference on Frontiers of Information Technology (FIT)*, pp. 35–40, IEEE, 2012.
- [343] A. A. Haider, S. Rafiq, and A. Nadeem, “Test suite optimization using fuzzy logic,” in *2012 International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2012.
- [344] S. Ahmed and A. Nadeem, “A survey on mobile agent communication protocols,” in *2012 International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2012.
- [345] M. B. Bashir and A. Nadeem, “Object oriented mutation testing: A survey,” in *2012 International Conference on Emerging Technologies (ICET)*, pp. 1–6, IEEE, 2012.
- [346] S. Naz, S. Asghar, S. Fong, and A. Qayyum, “Multi-way association clustering analysis on adaptive real-time multicast data,” in *International Conference on Networked Digital Technologies*, pp. 383–394, Springer, 2011.
- [347] M. M. Ali, M. Ghafoor, I. A. Taj, and K. Hayat, “Palm print recognition using oriented hausdorff distance transform,” in *Frontiers of Information Technology (FIT)*, pp. 85–88, IEEE, 2011.

- [348] M. Ghafoor, U. I. Bajwa, and I. A. Taj, “Fuel nozzle spray pattern classifier,” in *Frontiers of Information Technology (FIT)*, pp. 303–307, IEEE, 2011.
- [349] H. Qayyum and M. Ashraf, “Performance comparison of direction-of-arrival estimation algorithms for towed array sonar system,” in *Digital Information Processing and Communications*, pp. 509–517, Springer, 2011.
- [350] U. Rafique, G. I. Kiani, M. M. Ahmed, and S. Habib, “Frequency selective surface absorber for WLAN security,” in *Proceedings of the 5th European Conference on Antennas and Propagation (EUCAP)*, pp. 872–875, IEEE, 2011.
- [351] U. Rafique, M. M. Ahmed, M. A. Haq, and M. T. Rana, “Transmission of RF signals through energy efficient window using FSS,” in *2011 7th International Conference on Emerging Technologies (ICET)*, pp. 1–4, IEEE, 2011.
- [352] S. Iqbal, C. Edwards, and A. I. Bhatti, “Robust feedback linearization using higher order sliding mode observer,” in *2011 50th IEEE Conference on Decision and Control and European Control Conference (CDC-ECC)*, pp. 7968–7973, IEEE, 2011.
- [353] M. Z. Shah, R. Samar, and A. I. Bhatti, “Sliding mode based lateral control for UAVs using piecewise linear sliding surface,” in *2011 International Conference on Communications, Computing and Control Applications (CCCA)*, pp. 1–6, IEEE, 2011.
- [354] S. Liaqat, S. A. Khan, M. B. Ihsan, S. Z. Asghar, A. Ejaz, and A. I. Bhatti, “Automatic recognition of ground radar targets based on target RCS and short time spectrum variance,” in *2011 International Symposium on Innovations in Intelligent Systems and Applications (INISTA)*, pp. 164–167, IEEE, 2011.
- [355] G. Jabeen and N. Masood, “Tuned schema merging (tusme),” in *2011 5th International Conference on Software, Knowledge Information, Industrial Management and Applications (SKIMA)*, pp. 1–7, IEEE, 2011.
- [356] S. A. Khan, M. T. Afzal, A. B. Nawab, M. A. Qadir, and A. Shahid, “Recommending contextualized research directions for scientific community,” in *International Conference on Computers and Emerging Science (ICCET)*, Khair Pur, Pakistan, 2011.
- [357] A. Shahid, M. T. Afzal, and M. A. Qadir, “Does citation frequency discover semantic relatedness,” in *International Conference on Computers and Emerging Science (ICCET)*, Khair Pur, Pakistan, 2011.
- [358] A. Khalid, M. T. Afzal, and M. A. Qadir, “Building a classification scheme for citation functions,” in *International Conference on Internet and Web Engineering (ICIWE)*, Kuala Lumpur, Malaysia, 2011.
- [359] N. A. Sajid, T. Ali, M. T. Afzal, M. Ahmad, and M. A. Qadir, “Exploiting reference section to classify paper’s topics,” in *Proceedings of the International Conference on Management of Emergent Digital EcoSystems*, pp. 220–225, ACM, 2011.

- [360] M. A. Raza, M. T. Afzal, and A. Khanum, “Discovering, structuring and visualizing organizations from linked open data,” in *2011 6th International Conference on Computer Sciences and Convergence Information Technology (ICCIT)*, pp. 738–744, IEEE, 2011.
- [361] M. Naqvi, A. U. Mailk, S. Razzaq, and M. T. Afzal, “Extraction and visualization of citation network,” in *2011 International Conference on Computer Networks and Information Technology (ICCNIT)*, pp. 205–209, IEEE, 2011.
- [362] M. Naqvi, A. Usman, S. Batool, and T. Afzal, “Finding scientific experts of ACM categories based on temporal association rule mining,” in *2011 International Conference on Computer Networks and Information Technology (ICCNIT)*, pp. 273–277, IEEE, 2011.
- [363] M. A. Abbas, M. A. Qadir, M. Ahmad, T. Ali, and N. A. Sajid, “Graph based query trimming of conjunctive queries in semantic caching,” in *2011 7th International Conference on Emerging Technologies (ICET)*, pp. 1–5, IEEE, 2011.
- [364] S. Khan, S. Z. Ahmed, and M. A. Qadir, “Throughput enhancement of simultaneous multipath communication using modified fast retransmit scheme,” in *2011 International Conference on Computer Networks and Information Technology (ICCNIT)*, pp. 9–12, IEEE, 2011.
- [365] A. Khalid, M. T. Afzal, and M. A. Qadir, “Citation network visualization of CiteSeer dataset,” in *2011 6th International Conference on Computer Sciences and Convergence Information Technology (ICCIT)*, pp. 367–370, IEEE, 2011.
- [366] A. Khalid, M. T. Afzal, and M. A. Qadir, “Restructuring citation reasons,” in *3rd International Conference on Computer Engineering and Technology (ICCET 2011)*, ASME Press, 2011.
- [367] Z. Hassan and M. A. Qadir, “MinG: An efficient algorithm to mine graphs for semantic associations,” in *2011 International Conference on Computer Networks and Information Technology (ICCNIT)*, pp. 59–64, IEEE, 2011.
- [368] Z. Khai, A. Nadeem, and G.-s. Lee, “A prolog based approach to consistency checking of UML class and sequence diagrams,” in *International Conference on Advanced Software Engineering and its Applications (ASEA), Jeju Island, Korea*, vol. 57, Springer, 2011.
- [369] T. Masood, A. Nadeem, and G.-s. Lee, “A safe regression testing technique for web services based on WSDL specification,” in *International Conference on Advanced Software Engineering and its Applications (ASEA), Jeju Island, Korea*, vol. 57, Springer, 2011.
- [370] S. U. Rehman and A. Nadeem, “AgentSpeak (L) based testing of autonomous agents,” in *International Conference on Advanced Software Engineering and Its Applications (ASEA), Jeju Island, Korea*, pp. 11–20, Springer, 2011.

- [371] S. A. Khan and A. Nadeem, "Applying evolutionary approaches to data flow testing at unit level," in *International Conference on Advanced Software Engineering and Its Applications (ASEA)*, Jeju Island, Korea, Springer, 2011.
- [372] Z. Khalid, S. Sameen, and S. I. Malik, "In silico mining of RAS gene family expression data in human thyroid cancer," in *2011 5th International Conference on Bioinformatics and Biomedical Engineering, (iCBBE)*, pp. 1–4, IEEE, 2011.
- [373] A. Vaseer and M. I. Khan, "The impact of internal marketing on faculty job satisfaction: An empirical study of public and private universities in Pakistan," in *International Business Information Management Conference (16th IBIMA)*, Kuala Lumpur, Malaysia, 2011.
- [374] M. I. Khan and M. A. Qureshi, "Global entrepreneurship: A technical portrait for black and white entrepreneurship in networked world," in *Global Business Research Conference, Beijing, China*, 2011.
- [375] M. I. Khan, M. A. Qureshi, and Q. Abbas, "Globalization: Offshore outsourcing of information systems," in *Global Business Research Conference, Beijing, China*, 2011.
- [376] M. Aazam, I. Khan, M. Alam, and A. Qayyum, "Comparison of IPv6 tunneled traffic of teredo and ISATAP over test-bed setup," in *2010 International Conference on Information and Emerging Technologies (ICIET)*, pp. 1–4, IEEE, 2010.
- [377] E. Elahi, N. Hassan, S. Asghar, and A. Qayyum, "Performance modeling of bandwidth aggregation for TCP connections," in *2010 12th IEEE International Conference on High Performance Computing and Communications (HPCC)*, pp. 689–694, IEEE, 2010.
- [378] E. Elahi, M. Yousaf, A. Sheikh, M. M. Rehan, M. O. Chughtai, and A. Qayyum, "On the implementation of end-to-end mobility management framework (EMF)," in *2010 IEEE 6th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob)*, pp. 458–465, IEEE, 2010.
- [379] M. Aazam, S. A. H. Shah, I. Khan, and A. Qayyum, "Deployment and performance evaluation of teredo and ISATAP over real test-bed setup," in *Proceedings of the International Conference on Management of Emergent Digital Ecosystems*, pp. 229–233, ACM, 2010.
- [380] S. Yasmin, M. Yousaf, and A. Qayyum, "Security issues related with dns dynamic updates for mobile nodes: A survey," in *Proceedings of the 8th International Conference on Frontiers of Information Technology*, p. 17, ACM, 2010.
- [381] M. Asif, M. Farooq, and I. A. Taj, "Optimized implementation of motion compensation for H.264 decoder," in *2010 5th International Conference on Computer Sciences and Convergence Information Technology (ICCIT)*, pp. 216–221, IEEE, 2010.
- [382] N. A. Khan, I. A. Taj, and M. N. Jaffri, "Instantaneous frequency estimation using fractional fourier transform and wigner distribution," in *International Conference on Signal Acquisition and Processing-ICSAP'10*, pp. 319–321, IEEE, 2010.

- [383] I. Sajid, S. G. Ziaavras, and M. M. Ahmed, “Hardware-based speed up of face recognition towards real-time performance,” in *2010 13th Euromicro Conference on Digital System Design: Architectures, Methods and Tools (DSD)*, pp. 763–770, IEEE, 2010.
- [384] I. Sajid, M. M. Ahmed, and M. Sahgeer, “FPGA-based optimized architecture for face recognition using fixed point householder algorithm,” in *2010 4th International Conference on New Trends in Information Science and Service Science (NISS)*, pp. 139–144, IEEE, 2010.
- [385] I. Sajid, M. M. Ahmed, and S. G. Ziaavras, “Pipelined implementation of fixed point square root in FPGA using modified non-restoring algorithm,” in *2010 The 2nd International Conference on Computer and Automation Engineering (ICCAE)*, vol. 3, pp. 226–230, IEEE, 2010.
- [386] Q. Ahmed, A. I. Bhatti, S. Iqbal, and I. H. Kazmi, “2-sliding mode based robust control for 2-DOF helicopter,” in *2010 11th International Workshop on Variable Structure Systems (VSS)*, pp. 481–486, IEEE, 2010.
- [387] M. Z. Shah, R. Samar, and A. I. Bhatti, “Adaptive sliding mode roll control of a canard-controlled missile,” in *2010 Chinese Control and Decision Conference (CCDC)*, pp. 2808–2813, IEEE, 2010.
- [388] S. Iqbal, C. Edwards, and A. I. Bhatti, “A smooth second-order sliding mode controller for relative degree two systems,” in *IECON 2010-36th Annual Conference on IEEE Industrial Electronics Society*, pp. 2379–2384, IEEE, 2010.
- [389] Q. Ahmed and A. I. Bhatti, “Second order sliding mode observer for estimation of SI engine volumetric efficiency & throttle discharge coefficient,” in *2010 11th International Workshop on Variable Structure Systems (VSS)*, pp. 307–312, IEEE, 2010.
- [390] I. H. Kazmi, A. I. Bhatti, and M. Iqbal, “Parameter estimation of PEMFC system with unknown input,” in *2010 11th International Workshop on Variable Structure Systems (VSS)*, pp. 301–306, IEEE, 2010.
- [391] T. Hussain, S. Asghar, and N. Masood, “Web usage mining: A survey on preprocessing of web log file,” in *2010 International Conference on Information and Emerging Technologies (ICIET)*, pp. 1–6, IEEE, 2010.
- [392] G. A. Mirza, N. Masood, and S. Asghar, “A survey of data level conflicts in database integration,” in *SKIMA 2010*, p. 2, 2010.
- [393] A. Latif, M. T. Afzal, and K. Tochtermann, “Constructing experts profiles from linked open data,” in *2010 6th International Conference on Emerging Technologies (ICET)*, pp. 33–38, IEEE, 2010.
- [394] T. Ali, M. A. Qadir, and M. Ahmad, “Translation of relational queries into description logic for semantic cache query processing,” in *2010 International Conference on Information and Emerging Technologies (ICIET)*, pp. 1–6, IEEE, 2010.

- [395] T. Ali and M. A. Qadir, “DL based subsumption analysis for relational semantic cache query processing and management,” in *10th International Conference on Knowledge Management and Knowledge Technologies, Messe Congress Graz, Austria*, pp. 1–3, 2010.
- [396] M. Fahad, N. Moalla, A. Bouras, M. A. Qadir, and M. Farukh, “Disjoint-knowledge analysis and preservation in ontology merging process,” in *2010 Fifth International Conference on Software Engineering Advances (ICSEA)*, pp. 422–428, IEEE, 2010.
- [397] M. Ahmad, S. Asghar, M. A. Qadir, and T. Ali, “Graph based query trimming algorithm for relational data semantic cache,” in *Proceedings of the International Conference on Management of Emergent Digital EcoSystems*, pp. 47–52, ACM, 2010.
- [398] S. Nazir, M. T. Afzal, M. A. Qadir, and H. Maurer, “CAOWL-SAI: context aware OWL based semantic association inference,” in *2010 Sixth International Conference on Networked Computing and Advanced Information Management (NCM)*, pp. 746–751, IEEE, 2010.
- [399] S. A. Khan and M. A. Qadir, “A generic framework for evaluation of ontology to relational database transformation process,” in *2010 international conference on Information and emerging technologies (ICIET)*, pp. 1–5, IEEE, 2010.
- [400] M. Fahad, N. Moalla, A. Bouras, M. A. Qadir, and M. Farukh, “A semantic approach for classification of web ontologies,” in *Proc. 10th International Conference on knowledge management and knowledge technologies, J. UCS, Graz Austria*, pp. 69–80, 2010.
- [401] S. Z. Ahmad, M. A. Qadir, and A. Bouras, “An opportunistic multi-server scheduling approach for service guarantees through mobile routers,” in *2010 Second International Conference on Advances in Future Internet (AFIN)*, pp. 63–68, IEEE, 2010.
- [402] N. I. Qazi and M. A. Qadir, “Algorithms to evaluate ontologies based on extended error taxonomy,” in *2010 International Conference on Information and Emerging Technologies (ICIET)*, pp. 1–6, IEEE, 2010.
- [403] R. Ahmad, A. Nadeem, T.-h. Kim, *et al.*, “ISARE: an integrated software architecture reuse and evaluation framework,” in *International Conference on Advanced Software Engineering and Its Applications*, pp. 174–187, Springer, 2010.
- [404] M. Ahmad, A. Nadeem, and T.-h. Kim, “An automated approach to testing polymorphic features using object-Z,” in *International Conference on Advanced Software Engineering and its Applications (ASEA), Jeju Island, Korea*, Springer, 2010.
- [405] M. A. Ahmad and A. Nadeem, “Consistency checking of UML models using description logics: A critical review,” in *2010 6th International Conference on Emerging Technologies (ICET)*, pp. 310–315, IEEE, 2010.
- [406] S. Khalid and A. Nadeem, “Automated generation of finite state machine from object-oriented formal specifications,” in *2010 6th International Conference on Emerging Technologies (ICET)*, pp. 304–309, IEEE, 2010.

- [407] S. A. Khan and A. Nadeem, “UML extensions for modeling of aspect oriented software: a survey,” in *Proceedings of the 2010 National Software Engineering Conference*, p. 5, ACM, 2010.
- [408] K. Latif, M. A. B. U. Rahim, A. Rauf, and A. Nadeem, “Evaluation of UML-real time profiles for industrial control systems,” in *2010 International Conference on Information and Emerging Technologies (ICIET)*, pp. 1–5, IEEE, 2010.
- [409] M. I. Khan and A. Muzaffar, “The trust solution for business issues in knowledge economy (e-security),” in *proceedings of the International Conference on Information and Knowledge Engineering Singapore*, 2010.
- [410] I. Khan and W. Ahmed, “The plagiarism prevention model for higher education in South Asia,” in *Proceedings of Edulearn10 International Conference On Education And New Learning Technologies*, pp. 2752–2756, IATED, 2010.
- [411] I. Khan and W. Ahmad, “E-education: E-readiness model for educational institutions (global education & training perspective),” in *EDULEARN10 Proceedings*, pp. 6800–6806, IATED, 2010.
- [412] M. I. Khan, M. A. Qureshi, and Q. Abbas, “Agile methodology in software development (SMEs) of Pakistan software industry for successful software projects (CMM framework),” in *2010 International Conference on Educational and Network Technology (ICENT)*, pp. 576–580, IEEE, 2010.
- [413] M. I. Khan, H. A. Talpur, and M. A. Qureshi, “The emergence of silver bullets transforming Pakistan to knowledge economy,” in *Proceedings of the 14th IBIMA conference on Global Business Transformation through Innovation and Knowledge Management, Istanbul, Turkey*, 2010.
- [414] M. I. Khan, Q. M. A, and Q. Abbas, “Data warehouse failure prevention model (business intelligence perspective),” in *Proceedings of the 14th IBIMA conference on Global Business Transformation through Innovation and Knowledge Management, Istanbul, Turkey*, 2010.
- [415] M. I. Khan, Q. M. A, and Q. Abbas, “Global outsourcing: Investigation of critical success factors in global software (ICT) projects,” in *International Conference on Information and Communication Technologies, Tokyo, Japan*, 2010.
- [416] M. I. Khan and M. A. Qureshi, “Past, present and future: The establishment of entrepreneurship development centres in the world (global comparison perspective),” in *2nd International Conference on Business, Technology and Engineering (ICBTE), Islamabad*, 2010.
- [417] S. A. Moiz, M. M. Ahmed, K. S. Karimov, and F. Rehman, “Organic semiconductor based optical sensor,” in *International Symposium of Advanced Materials (ISAM 2009), Pakistan*, 2009.

- [418] M. M. Ahmed, S. A. Moiz, *et al.*, “Steering control of nonholonomic control systems using model decomposition: A fire truck example,” in *2nd International Conference on Computer, Control and Communication-IC4 2009*, pp. 1–8, IEEE, 2009.
- [419] M. Rehan, M. Yousaf, A. Qayyum, and S. A. Malik, “A cross-layer user centric vertical handover decision approach based on MIH local triggers,” in *WMNC/PWC*, pp. 359–369, Springer, 2009.
- [420] U. Shaukat, A. Qayyum, and S. Hussain, “Performance evaluation of multicast protocols for multimedia traffic,” in *International Conference on Emerging Technologies-ICET 2009*, pp. 383–388, IEEE, 2009.
- [421] P. A. Shah, M. Rehan, H. M. O. Chughtai, and A. Qayyum, “On reducing throughput degradation of TCP connection after vertical handover,” in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–4, IEEE, 2009.
- [422] I. Khan and A. Qayyum, “Performance evaluation of AODV and OLSR in highly fading vehicular ad hoc network environments,” in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–5, IEEE, 2009.
- [423] E. Ahmed, M. Aazam, and A. Qayyum, “Comparison of various IPv6 flow label formats for end-to-end QoS provisioning,” in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–5, IEEE, 2009.
- [424] U. Shaukat and A. Qayyum, “MPEMM: Multi-perspective performance evaluation model for multicast,” in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–5, IEEE, 2009.
- [425] P. A. Shah, M. Yousaf, A. Qayyum, and S. A. Malik, “An analysis of service disruption time for TCP applications using end-to-end mobility management protocols,” in *Proceedings of the 7th International Conference on Advances in Mobile Computing and Multimedia*, pp. 360–364, ACM, 2009.
- [426] D. Mirza, I. A. Taj, and A. Khalid, “A robust eyelid and eyelash removal method and a local binarization based feature extraction technique for iris recognition system,” in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–6, IEEE, 2009.
- [427] Z. E. Bhatti, U. I. Bajwa, and I. A. Taj, “Introducing set of internal parameters for Laplacian faces to enhance performance under varying conditions,” in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–5, IEEE, 2009.
- [428] R. Mehmood, M. U. Ali, and I. A. Taj, “Applying centroid based adjustment to kernel based object tracking for improving localization,” in *International Conference on Information and Communication Technologies-ICICT’09*, pp. 209–214, IEEE, 2009.
- [429] R. R. Sheikh and I. A. Taj, “Cardiac disorder diagnosis based on ECG segments analysis and classification,” in *Third International Conference on Electrical Engineering-ICEE’09*, pp. 1–6, IEEE, 2009.

- [430] N. M. Memon, M. M. Ahmed, and S. A. Moiz, "Extraction of intrinsic AC parameters of mm wavelength GaAs HEMTs from measured DC characteristics," in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–7, IEEE, 2009.
- [431] S. M. Imran, S. A. Moiz, M. M. Ahmed, J.-H. Lee, and H.-T. Kim, "Structural characterization of the silver-polyaniline nanocomposite for electronic devices," in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–4, IEEE, 2009.
- [432] Q. Ahmed, A. I. Bhatti, and S. Iqbal, "Nonlinear robust decoupling control design for twin rotor system," in *7th Asian Control Conference-ASCC 2009*, pp. 937–942, IEEE, 2009.
- [433] M. Iqbal, A. I. Bhatti, S. Iqbal, Q. Khan, and I. H. Kazmi, "Parameter estimation of uncertain nonlinear MIMO three tank systems using higher order sliding modes," in *IEEE International Conference on Control and Automation-ICCA 2009*, pp. 1931–1936, IEEE, 2009.
- [434] Q. Ahmed, A. I. Bhatti, and S. Iqbal, "Robust decoupling control design for twin rotor system using hadamard weights," in *2009 IEEE Control Applications, (CCA) & Intelligent Control, (ISIC)*, pp. 1009–1014, IEEE, 2009.
- [435] M. Iqbal, A. I. Bhatti, S. Iqbal, Q. Khan, and I. H. Kazmi, "Fault diagnosis of nonlinear systems using higher order sliding mode technique," in *7th Asian Control Conference-ASCC 2009*, pp. 875–880, IEEE, 2009.
- [436] M. Rafiq, S. U. Rehman, Q. R. Butt, and A. I. Bhatti, "Power efficient sliding mode control of SR motor for speed control applications," in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–6, IEEE, 2009.
- [437] Q. R. Butt, A. I. Bhatti, M. Iqbal, M. A. Rizvi, R. Mufti, and I. H. Kazmi, "Estimation of automotive engine parameters: Part I: Discharge coefficient of throttle body," in *2009 6th International Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 275–280, IEEE, 2009.
- [438] M. A. Rizvi and A. I. Bhatti, "Hybrid model for early detection of misfire fault in SI engines," in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–6, IEEE, 2009.
- [439] M. A. Rizvi, A. I. Bhatti, and Q. R. Butt, "Fault detection in a class of hybrid system," in *International Conference on Emerging Technologies-ICET 2009*, pp. 130–135, IEEE, 2009.
- [440] I. H. Kazmi, A. I. Bhatti, and S. Iqbal, "A nonlinear observer for PEM fuel cell system," in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–6, IEEE, 2009.
- [441] S. H. Qaiser, A. I. Bhatti, M. Iqbal, and J. Qadir, "LMI-based robust control system design for a research reactor," in *2009 6th International Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 207–211, IEEE, 2009.

- [442] M. Iqbal, A. I. Bhatti, S. Iqbal, and Q. R. Butt, “LMI based controller synthesis of an uncertain three tank system,” in *2009 6th International Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 192–196, IEEE, 2009.
- [443] H. Z. Bukhar, A. I. Bhatti, M. F. Aftab, and K. Shafiq, “Multi-objective controller for control moment gyro (CMG) using LMI,” in *2009 6th International Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 203–206, IEEE, 2009.
- [444] M. Iqbal, A. I. Bhatti, and Q. Khan, “Dynamic sliding modes control of uncertain non-linear MIMO three tank system,” in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–7, IEEE, 2009.
- [445] S. H. Qaiser, A. I. Bhatti, M. Iqbal, R. Samar, and J. Qadir, “Non linear model validation and second order sliding mode controller design for a research reactor,” in *IEEE International Conference on Industrial Technology-ICIT 2009*, pp. 1–6, IEEE, 2009.
- [446] I. H. Kazmi and A. I. Bhatti, “Robust controller using LMI framework for PEM fuel cell system,” in *International Conference on Emerging Technologies-ICET 2009*, pp. 136–141, IEEE, 2009.
- [447] K. Shafiq, M. Imran, H. Z. Bukhari, S. Ahmed, and A. I. Bhatti, “LMI based multi-objective state-feedback controller design for magnetic levitation system,” in *2009 6th International Bhurban Conference on Applied Sciences and Technology (IBCAST)*, pp. 197–202, IEEE, 2009.
- [448] N. M. Dar and N. Zahra, “Generic metadata repository for a data warehouse,” in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–6, IEEE, 2009.
- [449] A. Khalid, S. A. H. Shah, and M. A. Qadir, “OntRel: An ontology indexer to store OWL-DL ontologies and its instances,” in *International Conference of Soft Computing and Pattern Recognition-SOCPAR’09*, pp. 478–483, IEEE, 2009.
- [450] M. Fahad and M. A. Qadir, “Similarity computation by ontology merging system: DKP-OM,” in *2nd International Conference on Computer, Control and Communication-IC4 2009*, pp. 1–6, IEEE, 2009.
- [451] M. A. Abbas and M. A. Qadir, “Cross attribute knowledge: A missing concept in semantic cache query processing,” in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–6, IEEE, 2009.
- [452] M. Ahmad, M. A. Qadir, M. Sanaullah, and M. F. Bashir, “An efficient query matching algorithm for relational data semantic cache,” in *2nd International Conference on Computer, Control and Communication-IC4 2009*, pp. 1–6, IEEE, 2009.
- [453] S. Z. Ahmad, M. A. Qadir, and M. S. Akbar, “Service optimization of in-elastic flows stripped over multiple asymmetric mobile channels,” in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–6, IEEE, 2009.

- [454] S. Z. Ahmad, M. A. Qadir, and M. S. Akbar, “Dependable quality-of-service provisioning through aggregate scheduling of multiple service classes on heterogeneous wireless channels,” in *First International Conference on Future Information Networks-ICFIN 2009*, pp. 167–172, IEEE, 2009.
- [455] A. K. Malik, M. A. Qadir, N. Iftikhar, and M. Usman, “Constraint-based query distribution framework for an integrated global schema,” in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–6, IEEE, 2009.
- [456] M. S. Akbar, S. Z. Ahmad, and M. A. Qadir, “Adaptive congestion control mechanism of TCP flows for performance optimization in mobile heterogeneous wireless networks,” in *2nd International Conference on Computer, Control and Communication-IC4 2009*, pp. 1–6, IEEE, 2009.
- [457] S. Hussain and M. A. Qadir, “Detection of crashed objects in eACID and its comparison with other techniques,” in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–6, IEEE, 2009.
- [458] S. Hussain and M. A. Qadir, “A benchmark for fault monitors in distributed systems,” in *International Conference on Emerging Technologies-ICET 2009*, pp. 94–101, IEEE, 2009.
- [459] N. Noureen and M. A. Qadir, “BiSim: A simple and efficient biclustering algorithm,” in *International Conference of Soft Computing and Pattern Recognition-SOCPAR’09*, pp. 1–6, IEEE, 2009.
- [460] S. Hussain and M. A. Qadir, “Extensive experimentation with eACID,” in *International Conference on Emerging Technologies-ICET 2009*, pp. 377–382, IEEE, 2009.
- [461] S. Sayyab, A. Nadeem, and S. Fazal, “BVirusGS: DNA analysis toolkit for Begomovirus genome analysis,” in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–5, IEEE, 2009.
- [462] L. Shoaib, A. Nadeem, and A. Akbar, “An empirical evaluation of the influence of human personality on exploratory software testing,” in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–6, IEEE, 2009.
- [463] M. B. Bashir, A. Nadeem, and N. Masood, “Fitness function design for evolutionary testing of object-oriented programs: A survey,” in *International Conference on Software, Knowledge and Information Management and Applications (SKIMA 2009), Fes, Morocco*, IEEE, 2009.
- [464] S. Manzoor, A. Nadeem, and N. Masood, “A survey of change identification techniques for regression testing,” in *International Conference on Software, Knowledge and Information Management and Applications (SKIMA 2009), Fes, Morocco*, IEEE, 2009.
- [465] S. Manzoor and A. Nadeem, “Identifying data member level changes for regression testing of object-oriented programs,” in *SERA (selected papers)*, pp. 191–201, Springer, 2009.

- [466] M. Bashir and A. Nadeem, “A state based fitness function for evolutionary testing of object-oriented programs,” in *7th ACIS International Conference on Software Engineering Research, Management and Applications (SERA 2009)*, Haikou, Hainan Island, China, Springer, 2009.
- [467] M. G. Nabi and A. Nadeem, “A formal model for English auction protocol,” in *7th ACIS International Conference on Software Engineering Research, Management and Applications-SERA’09*, pp. 119–126, IEEE, 2009.
- [468] S. U. R. Khan, I. U. Rehman, and S. U. R. Malik, “The impact of test case reduction and prioritization on software testing effectiveness,” in *International Conference on Emerging Technologies-ICET 2009*, pp. 416–421, IEEE, 2009.
- [469] Z. Zaman, A. Nadeem, and F. Yousuf, “Data flow based testing of aspect oriented programs: A survey,” in *International Conference of Software Engineering Theory and Practice (SETP 2009)*, Orlando, Florida, USA, pp. 98–104, 2009.
- [470] M. M. Khokhar, M. J. Rehman, and A. Nadeem, “Heuristics for identifying error-prone segments of code,” in *Proceedings of the International Workshop on Software Systems (IWSS) Istanbul, Turkey*, 2009.
- [471] N. Noureen, N. Kulsoom, A. de la Fuente, S. Fazal, and S. I. Malik, “Functional and promoter enrichment based analysis of biclustering algorithms using gene expression data of yeast,” in *IEEE 13th International Multitopic Conference-INMIC 2009*, pp. 1–6, IEEE, 2009.
- [472] M. I. Khan and M. Malik, “E-banking: The comparative analysis of e-banking sector of Pakistan,” in *The 2009 International Conference on e-Technology (e-Tech)*, Singapore, 2009.
- [473] M. I. Khan, M. A. Qureshi, and A. Hafiz, “The impact of offshore software business on IT professionals profiles,” in *2nd COMSATS International Business Research Conference, Lahore*, 2009.
- [474] M. I. Khan, “The litmus test for emergence of electronic wave in academic sector of Pakistan,” in *2nd Electronic Learning and Distance Education Conference, Islamabad*, 2009.
- [475] M. Yousaf and A. Qayyum, “On end-to-end mobility management in 4G heterogeneous wireless networks,” in *IEEE International Networking and Communications Conference-INCC 2008*, pp. 118–123, IEEE, 2008.
- [476] I. Sajid, M. M. Ahmed, and I. Taj, “Design and implementation of a face recognition system using fast PCA,” in *International Symposium on Computer Science and its Applications-CSA’08*, pp. 126–130, IEEE, 2008.
- [477] N. Masood and O. Iqbal, “Conceptual and context based combination of schema matchers,” in *4th International Conference on Emerging Technologies-ICET 2008*, pp. 269–274, IEEE, 2008.

- [478] S. Hussain and M. A. Qadir, “Enhanced adaptive, convergent and intelligent fault monitoring in distributed systems (eACID): Working and analysis,” in *IEEE International Multitopic Conference-INMIC 2008*, pp. 463–467, IEEE, 2008.
- [479] M. Ahmad, M. A. Qadir, and M. Sanaullah, “Query processing over relational databases with semantic cache: A survey,” in *IEEE International Multitopic Conference-INMIC 2008*, pp. 558–564, IEEE, 2008.
- [480] M. Fahad, M. A. Qadir, and S. A. H. Shah, “Evaluation of ontologies and DL reasoners,” in *International Conference on Intelligent Information Processing*, pp. 17–27, Springer, Boston, MA, 2008.
- [481] S. Z. Ahmad, M. A. Qadir, and M. S. Akbar, “A distributed resource management scheme for load-balanced QoS provisioning in heterogeneous mobile wireless networks,” in *Proceedings of the 4th ACM symposium on QoS and security for wireless and mobile networks*, pp. 63–70, ACM, 2008.
- [482] S. A. H. Shah, A. Khalid, and M. A. Qadir, “Ontofetcher: An approach for query generation to gather ontologies and ranking them by ensuring user’s context,” in *4th International Conference on Emerging Technologies-ICET 2008*, pp. 247–252, IEEE, 2008.
- [483] S. Hussain and M. A. Qadir, “ACID: Adaptive, convergent, and intelligent fault monitoring for distributed systems,” in *4th International Conference on Emerging Technologies-ICET 2008*, pp. 126–131, IEEE, 2008.
- [484] A. Razaque, S. H. K. Banuri, K. Shahzad, M. A. Qadir, and M. Ahmad, “Analysis of TCP variants at various link error rates under mobility aware anchor point node hybrid network,” in *Proceedings of the Mosharaka International Conference on Communications, Signals and Coding*, pp. 60–65, IEEE, 2008.
- [485] A. Razaque, K. Shahzad, and M. A. Qadir, “Analytical comparison of TCP variants under mobility aware Anchor Point Node (APN) hybrid network,” in *Proceedings of the Mosharaka International Conference on Communications, Signals and Coding*, pp. 66–71, IEEE, 2008.
- [486] M. Fahad, M. A. Qadir, and M. W. Noshairwan, “Ontological errors-inconsistency, incompleteness and redundancy,” in *ICEIS (3-2)*, pp. 253–285, 2008.
- [487] S. Z. Ahmad, M. S. Akbar, and M. A. Qadir, “Towards dependable wireless networks a QoS constraint resource management scheme in heterogeneous environment,” in *4th International Conference on Emerging Technologies-ICET 2008*, pp. 182–186, IEEE, 2008.
- [488] M. Sanaullah, M. A. Qadir, and M. Ahmad, “SCAD-XML: Semantic cache architecture for XML data files using Xpath with cases and rules,” in *IEEE International Multitopic Conference-INMIC 2008*, pp. 361–367, IEEE, 2008.

- [489] M. Usman, A. Nadeem, and T.-h. Kim, “UJECTOR: a tool for executable code generation from UML models,” in *Advanced Software Engineering and Its Applications*, pp. 165–170, IEEE, 2008.
- [490] F. Yousuf, A. Nadeem, Z. Zaman, T.-h. Kim, and M.-k. Choi, “Design diverse-multiple version connector: A fault tolerant component based architecture,” in *Advanced Software Engineering and Its Applications*, pp. 128–133, IEEE, 2008.
- [491] A. A. A. Jilani, A. Nadeem, T.-h. Kim, and E.-s. Cho, “Formal representations of the data flow diagram: A survey,” in *Advanced Software Engineering and Its Applications*, pp. 153–158, IEEE, 2008.
- [492] M. Usman, A. Nadeem, T.-h. Kim, and E.-s. Cho, “A survey of consistency checking techniques for UML models,” in *Advanced Software Engineering and Its Applications*, pp. 57–62, IEEE, 2008.
- [493] M. Latif and A. Nadeem, “Automatic extraction of pre-and postconditions from z-specifications,” in *Software Engineering Research, Management and Applications*, pp. 101–114, Springer, 2008.
- [494] M. N. Qamar, A. Nadeem, M. U. Khan, and M. Ali, “An automatable framework for formal specification & verification of aspect oriented programs,” in *Workshop on Critical System Development Using Modeling Languages 2006 (CSDUML-06) co-located with ACM/IEEE MoDELS 2006 Conference Genova, Italy*, 2008.
- [495] I. Khan, “E-business: The security socket layer devalues e-business in Pakistan,” in *CSREA EEE*, pp. 486–492, 2008.
- [496] M. A. Qadir and W. Noshairwan, “Warnings for disjoint knowledge omission in ontologies,” in *Second International Conference on Internet and Web Applications and Services-ICIW’07*, pp. 45–45, IEEE, 2007.
- [497] M. Fahad, M. A. Qadir, and M. W. Noshairwan, “Semantic inconsistency errors in ontology,” in *IEEE International Conference on Granular Computing-GRC 2007*, pp. 283–283, IEEE, 2007.
- [498] M. Fahad, M. A. Qadir, M. W. Noshairwan, and N. Iftakhir, “DKP-OM: A semantic based ontology merger,” in *Proc. 3rd International Conference I-Semantics*, pp. 313–322, 2007.
- [499] W. Noshairwan, M. A. Qadir, and M. Fahad, “Sufficient knowledge omission error and redundant disjoint relation in ontology,” in *Advances in Intelligent Web Mastering*, pp. 260–265, Springer, Berlin, Heidelberg, 2007.
- [500] M. A. Qadir, M. Fahad, and M. W. Noshairwan, “On conceptualization mismatches between ontologies,” in *IEEE International Conference on Granular Computing-GRC 2007*, pp. 275–275, IEEE, 2007.

- [501] S. Z. Ahmad, M. S. Akbar, and M. A. Qadir, "A cross-layer vertical handover decision model for heterogeneous wireless networks," in *4th International Conference on Innovations in Information Technology-IIT'07*, pp. 441–445, IEEE, 2007.
- [502] M. F. Bashir, R. A. Zaheer, Z. M. Shams, and M. A. Qadir, "SCAM: Semantic caching architecture for efficient content matching over data grid," in *Advances in Intelligent Web Mastering*, pp. 41–46, Springer, Berlin, Heidelberg, 2007.
- [503] N. Iftikhar, M. A. Qadir, and O. A. Hamid, "Group profile and ontology-based semantic annotation of multimedia data for efficient retrieval," in *Held in conjunction with the 6th International and Interdisciplinary Conference on Modeling and Using Context*, p. 109, Citeseer, 2007.
- [504] A. Sultana, M. F. Bashir, and M. A. Qadir, "CFiTT-corrupt free file transfer technique," in *International Conference on Information and Emerging Technologies-ICIET 2007*, pp. 1–6, IEEE, 2007.
- [505] M. A. Qadir, M. Fahad, and S. A. H. Shah, "Incompleteness errors in ontology," in *IEEE International Conference on Granular Computing-GRC 2007*, pp. 279–279, IEEE, 2007.
- [506] S. Z. Ahmad and M. A. Qadir, "Terminal mobility services in the middleware environment," in *IEEE/ACS International Conference on Computer Systems and Applications-AICCSA'07*, pp. 332–335, IEEE, 2007.
- [507] M. A. Rizvi, A. I. Bhatti, and Q. R. Butt, "Misfire detection in IC engines using finite state automata," in *15th International Conference on Soft Computing MENDEL, Brno, Czech Republic, ISSN*, pp. 1803–3814, 2009.
- [508] A. Ali, A. Nadeem, M. Z. Z. Iqbal, and M. Usman, "Regression testing based on UML design models," in *13th Pacific Rim International Symposium on Dependable Computing-PRDC 2007*, pp. 85–88, IEEE, 2007.
- [509] N. Raza, A. Nadeem, and M. Z. Z. Iqbal, "An automated approach to system testing based on scenarios and operations contracts," in *Seventh International Conference on Quality Software-QSIC'07*, pp. 256–261, IEEE, 2007.
- [510] M. Z. Z. Iqbal, Z. I. Malik, A. Nadeem, *et al.*, "An approach for selective state machine based regression testing," in *Proceedings of the 3rd International Workshop on Advances in Model-based Testing*, pp. 44–52, ACM, 2007.
- [511] M. Qamar, A. Nadeem, and R. Aziz, "An approach to test aspect-oriented programs," in *World Congress on Engineering*, pp. 211–216, 2007.
- [512] F. Rehman, M. M. Ahmed, N. M. Memon, and M. Riaz, "Feedback stabilization of non-holonomic systems with drift accomplished by tracking to their own extended systems; a rigid body with two torque actuators example," in *IEEE International Multitopic Conference-INMIC'06*, pp. 404–409, IEEE, 2006.

- [513] F. Rehman, M. M. Ahmed, M. N. Memon, and M. Riaz, "Signal modeling using transmultiplexer structures," pp. 68–73, IEEE, 2006.
- [514] F. Rehman, M. M. Ahmed, N. M. Memon, and M. Riaz, "Time-varying stabilizing control for a hopping robot model during the flight phase," in *IEEE International Multitopic Conference-INMIC'06*, pp. 400–403, IEEE, 2006.
- [515] H. A. Mirza and M. M. Ahmed, "Interference rejection capability of cross dipole antenna array system," in *2006 International Conference on Advances in Space Technologies*, pp. 68–74, IEEE, 2006.
- [516] M. I. Ahmad, M. M. Ahmed, and I. U. Shah, "Design and analysis of cross cage dipole antenna," in *2006 International Conference on Advances in Space Technologies*, pp. 75–80, IEEE, 2006.
- [517] S. A. Moiz, M. M. Ahmed, K. S. Karimov, and M. Mehmood, "Temperature dependent electrical characterization of organic semiconductor diodes deposited at 277g," in *IEEE International Multitopic Conference-INMIC'06*, pp. 467–471, IEEE, 2006.
- [518] M. F. Bashir and M. A. Qadir, "Traceability techniques: A critical study," in *IEEE International Multitopic Conference-INMIC'06*, pp. 265–268, IEEE, 2006.
- [519] M. F. Bashir and M. A. Qadir, "Hisis: 4-level hierarchical semantic indexing for efficient content matching over semantic cache," in *IEEE International Multitopic Conference-INMIC'06*, pp. 211–214, IEEE, 2006.
- [520] M. F. Bashir and M. A. Qadir, "Survey on efficient semantic content matching over semantic cache," in *IEEE International Multitopic Conference-INMIC'06*, pp. 215–218, IEEE, 2006.
- [521] I. Ihsan, M.-U. D. Ahmed, M. A. Qadir, *et al.*, "UREKA learning-object taxonomy & repository architecture-ULTRA," in *IEEE International Multitopic Conference-INMIC'06*, pp. 231–236, IEEE, 2006.
- [522] M. O. B. Nazir and M. A. Qadir, "An efficient, scalable and fault tolerant micro-mobility management scheme using adaptive foreign agents," in *IEEE International Multitopic Conference-INMIC'06*, pp. 326–330, IEEE, 2006.
- [523] N. Iftikhar, H. Liaquat, and M. A. Qadir, "Profile based context-aware query processing architecture," in *IEEE International Multitopic Conference-INMIC'06*, pp. 250–254, IEEE, 2006.
- [524] I. Hashmi, M. A. Qadir, *et al.*, "A hybrid UDP-TCP (RHUT) protocol for data replication," in *IEEE John Vincent Atanasoff 2006 International Symposium on Modern Computing-JVA'06*, pp. 98–106, IEEE, 2006.
- [525] H. Liaquat, N. Iftikhar, and M. A. Qadir, "Context aware information retrieval using role ontology and query schemas," in *IEEE International Multitopic Conference-INMIC'06*, pp. 244–249, IEEE, 2006.

- [526] A. R. Rind, K. Shahzad, and M. A. Qadir, "Evaluation and comparison of TCP and UDP over wired-cum-wireless LAN," in *IEEE International Multitopic Conference-INMIC'06*, pp. 337–342, IEEE, 2006.
- [527] I. Ihsan, M. Ahmed, M. A. Qadir, N. Iftikhar, *et al.*, "Semantically meaningful unit-SMU; An openly reusable learning object for UREKA learning-object taxonomy & repository architecture-ULTRA," in *IEEE International Conference on Computer Systems and Applications*, pp. 1011–1018, IEEE, 2006.
- [528] M. S. Akbar, S. Z. Ahmed, and M. A. Qadir, "Quantitative analytical performance of TCP variants in IP and MPLS networks," in *IEEE International Multitopic Conference-INMIC'06*, pp. 331–336, IEEE, 2006.
- [529] S. Z. Ahmad, M. S. Akbar, and M. A. Qadir, "High speed scalable mobility management architecture over infrastructural WLAN," in *IEEE International Multitopic Conference-INMIC'06*, pp. 343–348, IEEE, 2006.
- [530] A. Nadeem, Z. I. Malik, and M. R. Lyu, "An automated approach to inheritance and polymorphic testing using a VDM++ specification," in *IEEE International Multitopic Conference-INMIC'06*, pp. 224–230, IEEE, 2006.
- [531] A. Nadeem, A. Awais, *et al.*, "TestFilter: a statement-coverage based test case reduction technique," in *IEEE International Multitopic Conference-INMIC'06*, pp. 275–280, IEEE, 2006.
- [532] I. Rauf, A. Nadeem, and M. Khokhar, "Formalizing object oriented design patterns with object-Z," in *IEEE International Multitopic Conference-INMIC'06*, pp. 269–274, IEEE, 2006.
- [533] A. Nadeem and M. R. Lyu, "A framework for inheritance testing from VDM++ specifications," in *12th Pacific Rim International Symposium on Dependable Computing-PRDC'06*, pp. 81–88, IEEE, 2006.
- [534] T. Waheed, M. U. Khan, and A. Nadeem, "Polymorphic extensions to object-z specifications," in *TENCON 2006*, pp. 1–4, IEEE, 2006.
- [535] A. Ashraf and A. Nadeem, "Automating the generation of test cases from object-z specifications," in *30th Annual International Computer Software and Applications Conference-COMPSAC'06*, vol. 2, pp. 101–104, IEEE, 2006.
- [536] M. M. Khokhar, A. Nadeem, and O. M. Paracha, "An antecedence graph approach for fault tolerance in a multi-agent," in *7th International Conference on Mobile Data Management-MDM 2006*, pp. 137–137, IEEE, 2006.
- [537] Y. Zafar and M. M. Ahmad, "Globally asynchronous locally synchronous micropipelined processor implementation in FPGA," in *Proceedings of the IEEE Symposium on Emerging Technologies*, pp. 277–282, IEEE, 2005.
- [538] I. Ihsan, M. A. Qadir, and N. Iftikhar, "Mobile Ad-Hoc Service Grid-MASGRID," in *WEC (5)*, pp. 124–127, 2005.

- [539] I. I. Mohib ur Rehman, M. U. Ahmed, N. Iftikhar, and M. A. Qadir, “Generic multimedia database architecture,” in *In Proceedings of The 3rd World Enformatika Conference (WEC'05)*, 2005.
- [540] M. U. Ahmed, I. Ihsan, M. A. Qadir, N. Iftikhar, *et al.*, “Semantic integration of learning objects for UREKA navigation & integration toolkit-UNIT,” in *Proceedings of the IEEE Symposium on Emerging Technologies*, pp. 525–529, IEEE, 2005.
- [541] M. U. Ahmed, R. A. Zaheer, and M. A. Qadir, “Intelligent cache management for data grid,” in *Proceedings of the 2005 Australasian workshop on Grid computing and e-research-Volume 44*, pp. 5–12, Australian Computer Society, Inc., 2005.
- [542] M. ur Rehman, I. Ihsan, M. U. Ahmed, M. A. Qadir, and N. Iftikhar, “UREKA-grid enabled educational multimedia database,” in *SEKE*, pp. 485–490, 2005.