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RESEARCH INTERESTS

Artificial Intelligence, Graph Algorithms, Data Analytics, Intelligent Crowd Evacuation, Bio-Inspired Algorithms & Multidisciplinary Research

SELECTED PUBLICATIONS

1. **I.Venkat**, H.N. Zainah Siau, M. Saiful Omar, S. Abdullah, S. Alharbi, Graph Analytics to Reason Citations of Prophets in the Holy Quran, Advances in Intelligent Systems and Computing book series (AISC, volume 1321), 2021 ([pdf](#))
2. J.S.Tan, I.Y.Liao, **I.Venkat**, B.Belaton, P.T. Jayaprakash, Computer-aided superimposition via reconstructing and matching 3D faces to 3D skulls for forensic craniofacial identifications, Visual Computer, 36(9), pp. 1739–1753, 2020 ([pdf](#))
3. A.M. Ibrahim, **I. Venkat** and P. D. Wilde, The impact of potential crowd behaviours on emergency evacuation: The Journal of Artificial Societies and Social Simulation, 22(1), 2019. ([pdf](#))
4. B.M. Lahasan, S.L. Lutfi, **I. Venkat**, M.A. Al-Betar, R. San-Segundo, Optimized symmetric partial facegraphs for face recognition in adverse conditions, Information Sciences, 429, pp. 194-214, 2018. ([pdf](#))
5. B.M. Lahasan, **I. Venkat**, M.A. Al-Betar, S.L. Lutfi and P.D. Wilde, Recognizing faces prone to occlusions and common variations using optimal face subgraphs, Applied mathematics and computation, 283, pp. 316-332, 2016. ([pdf](#))
6. A.M. Ibrahim, **I. Venkat**, K. G. Subramanian, A. T. Khader and P. D. Wilde, Intelligent evacuation management systems: A review, ACM Transactions on Intelligent Systems and Technology (ACM TIST), 7(3), pp.36:1-27, Feb. 2016. ([pdf](#))

R&D CONSULTANCY

5G-Featured Biometric Surveillance:

Currently we are leading this consultancy R&D project which is part of the collaborative agreement signed by the Authority for Info-Comm. Tech. Industry (AITI) of Brunei Darussalam with UTB on the initiative to showcase 5G use cases. This project intends to pave learning opportunities for our research group to explore the newly emerging 5G technology and strengthen our research impact by joining hands with industry partners.