

Dr. S.M.Emdad Hossain

Head of Information Systems Department, Assistant Professor

Department of Information Systems.....

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Office Location: 11-H-17.

Time at UoN: Since 2016

Marital Status: .....

Dr. S.M. Emdad Hossain currently an Assistant Professor in the department of Information Systems, College of Economics, Management and Information Systems, University of Nizwa. He has received his PhD degree in Information Science and Engineering from University of Canberra, Australia. He has diverse educational and teaching experience from number of countries around the globe. He spent his secondary school life in Bangladesh, and completed his higher secondary school and Bachelor (Hons) in Malaysia. After five years of extensive experience in teaching and research in Australia; he moved to United States with new offer as Research Scientist in Embry Riddle Aeronautical University, Florida, USA. He is in the technical review committees and regular reviewer for several IEEE, Elsevier, ISI, and IET journals/conferences. His research interest includes multi-modal systems, computer vision, pattern recognition, data mining, medical image computing and mobile banking. He has 22 fully refereed Journal and Conference publications with a book chapter and 3 Intellectual PATENTS in pattern recognition and mobile banking. He is highly interested in seeking wide and interdisciplinary collaborations in teaching and research.

Scientific IDs:

- Google Scholar
- Research Gate

Academic Qualifications

Post-Doc, Embry Riddle Aeronautical University, USA, 2015

PhD, University of Canberra, Australia, 2014

Teaching Activities

Information Systems in Organization

Database Design

Systems Analysis and Modelling

Security and Support in IT

Information Technology for the Workplace

System and Project Quality Management

Global E-Commerce

E-Business Strategy, Architecture and Design

Intro to Information Systems

Information Systems Analysis

Systems Analysis and Design

Research Activities

- Research Interests

Pattern Recognition, Computer Vision, Bio-metric Analysis, Soft-Medical Technology

- Publications

Article:

1. 2023 S.M. Emdad Hossain, M. Raisuddin Ahmed, Mohammad Amir, S. Arockiasamy, Sallam Fageeri, Validating Biometric Pattern Recognition using Tableau: An Empirical Study, International Journal of Computer Applications (IJCA), Volume 185 – No. 32, August 2023 (ProQuest, EBSCO).

2. 2022 Taiba Al Salmi, Emdad Hossain, Sallam Fageeri and Alaa Al-Obaidi, 2022, Facial Expression to Analyze Human Mindset, International Journal of Engineering and Information

Systems (IJEAIS), Vol. 6 Issue 2, February - 2022, Pages:49-56

3. 2022 Fageeri, S.O., Hossain, S.M.E., Arockiasamy, S., Al-Salmi, T.Y. (2022). High-Utility Pattern Mining Using ULB-Miner. Sustainable Advanced Computing. Lecture Notes in Electrical Engineering, vol 840. Springer, Singapore, May 2022 (SCOPUS).

4. 2022 Emdad, S. M. H, Sallam O. F, Arockiasamy S, M. Abu Kausar, Aiman M. S, Lie Detection Technique using Video from the Ratio of Change in the Appearance, IJCSNS International Journal of Computer Science and Network Security, VOL.22 No.7, July 2022. (ISI, Web of Science)

5. 2022 Badar Al Baroomi, S. M. Emdad Hoaasin, Thirein Myo, Abdullah Al Shibli, Muhammad R Ahmed, M H Marhaban, Smart Dual Stage Identity Authentication for Attendance Monitoring, International Journal of Computer Science and Network Security (IJCSNS), Vol. 22 No. 9 pp. 801-807, September 2022 (ISI, Web of Science).

6. 2021 Sallam Osman Fageeri, S M Emdad Hossain, Arockiasamy Soosaimanickam, Classification of Eye Refractive Error using ClassifierFusion; International Journal of Digital Information and Wireless Communications (IJDIWC), Vol. 11, No. 3, June 2021 (ISI-Indexed Journal).

7. 2020 Al Hola H. R, Emdad S. M. H, George K, Mohammad A, Smart City and Citizen Perception in Oman, International Journal of Latest Transaction in Engineering and Science (IJLTES), Volume 8, Issue-4, January 2020

8. 2019 Said A. M, Hosssain S.M.E,, A Comparative Study on Traditional vs Agile Information Systems Development Methods, Conference on Economics, Business and Information Technology Trends (CEBIST), April 2019, Nizwa, Oman

9. 2018 Hossain S.M.E , Elshaiekh N. E , Said A. M and Arockiasamy S,, Adaptable Medical Diagnostic Vessel for Human Body Check-up, International Journal of Advancements in Computing Technology (IJACT), Volume 9, Number 3, March 2018

10. 2017 E. Hossain, G. Chetty, Multimodal Biometric Fusion for Person Identification: A public Surveillance Scenario, International Journal of Intelligent Information Processing (IJIIP) Volume 7, Number 1, Sept 2017

11. 2017 E. Hossain, G. Chetty,, Big-data Visualization Platform (Data-mining Approach) for Human Identity Verification, International Journal of Engineering and Information Systems (IJEAIS), Volume 1, Issue 9, November 2017

12. 2015 E. Hossain, G. Chetty,, Multimodal Biometric Gait Database: A Comparison Study, Journal of Next Generation Information Technology (JNIT - March 2015)

13. 2014 E. Hossain, G. Chetty,, Multimodal Biometric Database for Person Identification

and Gait analysis, The International Journal of Intelligent Information Processing (IJIIP –November 2014)

14. 2013 E. Hossain, G. Chetty,, Cross-Camera Feature Level Fusion for Person Identification in Surveillance Videos, 20th International Conference on Neural Information Processing (ICONIP-2013), South Korea, November, 2013

15. 2012 E. Hossain, G. Chetty,, Person Identification in Surveillance Video Using Gait Biometric cues, 9th International Conference on Fuzzy Systems and Knowledge Discovery (FSKD`12), Chongqing, China, 29-31 May 2012

16. 2012 E. Hossain, G. Chetty,, Multimodal Biometric Processing Scheme in Surveillance Video Using Ear, Side Face and Gait, 9th International Conference on Fuzzy Systems and Knowledge Discovery (FSKD`12), Chongqing, China, 29-31 May 2012

17. 2012 E. Hossain, G. Chetty,, Fusion of Gait Biometric Cues from Different View Points for Human Identification in Surveillance Video, 34th International Conference on Information Technology Interface, Cavtat / Dubrovnik, Croatia, June 2012

18. 2012 E. Hossain, G. Chetty,, Combination of Physiological and Behavioral Biometric for Human Identification, 8th International Conference on Machine Learning and Data Mining in Pattern Recognition (MLDM 2012), Berlin, Germany, July 2012

19. 2012 E. Hossain, G. Chetty,, Multi-View Gait Fusion for Large Scale Human Identification in Surveillance Videos, Advanced Concepts for Intelligent Vision Systems (ACIVS 2012), Brno, Czech Republic, Sept. 4-7 2012

20. 2012 E. Hossain, G. Chetty,, Multi-Mode-Walking Fusion for Person Identification in Surveillance Video, 12th International Conference on Algorithms and Architecture for Parallel Processing (ICA3PP) Fukuoka, Japan, September 4-7, 2012

21. 2012 E. Hossain, G. Chetty, R. Goecke,, Multi-view Multi-modal Gait Based Human Identity Recognition from Surveillance Videos, Workshop on Page 3 S.M.Emdad Hossain Multimodal pattern recognition of social signals in HCI (MPRSS 2012), Tsukuba, Japan. November 2012

22. 2012 E.Hossain, G. Chetty,, A Multi-Modal Gait Based Human Identity Recognition System Based on Surveillance Videos, 6th International Conference on Signal Processing and Communication Systems (ICSPCS 2012), Gold Coast, Australia, December 2012

23. 2011 S.M.E. Hossain, G. Chetty,, Next Generation Identity Verification Based on Face and Gait Biometrics, International Conference on Biomedical Engineering and Technology (ICBET-2011) June 17-19, 2011, Kuala Lampur. (ISI Indexed-Best paper award)

24. 2011 S.M.E. Hossain, G. Chetty,, Person Identity Verification Based on Multimodal Face-

Gait Fusion, IJCSNS International Journal of Computer Science and Network Security, VOL.11 No.6, June 2011

25. 2011 S.M.Emdad Hossain, Development of Visionary Life Cycle and Difficulties Overcome Diagram for Small and Smart Business, International Conference on Sociality and Economic Development (ICSEP 2011) June 4-5, 2011, Kuala Lumpur

26. 2011 S.M.Emdad Hossain,, Small and Medium Enterprise: Clear Pathway to Bright Future by Using Fundamental visionary life cycle and Page 4 S.M.Emdad Hossain Difficulties overcome Diagram, Journal of Trade, Economics and Finance (IJTEF), August 2011

27. 2011 S.M.E. Hossain, Human Identity Verification by using Physiological and Behavioral Biometric Traits, International Journal of Bioscience, Biochemistry and Bioinformatics (IJBBB), August 2011

28. 2011 E. Hossain, G. Chetty,, Multimodal Face-Gait Fusion For Human Identity Verification, “International Workshop on Bio-Inspired and Fusion Systems for Cyber Security”, Melbourne, October 2011

29. 2011 E. Hossain, G. Chetty,, MULTIMODAL IDENTITY VERIFICATION BASED ON LEARNING FACE AND GAIT CUES, 18th International Conference on Neural Information Processing (ICONIP 2011), Shanghai, China. November 2011

Book Section:

1. 2011 G. Chetty, E. Hossain,, Multimodal Fusion for Robust Identity Authentication: Role of Liveness Checks, Advance Biometric Technology, ISBN 978-953-307-487-0, pp.3-20 (Intech Publishing Inc.)

Faculty Administrative Experience

2019 - Present: Program Coordinator - Department of Information System

2017 - 2019: Department Convener - Department of Information Systems

Membership in Professional Bodies

2017-Present: IEEE

Award and Recognitions

2011 Patent: “Full Version Banking Through Cell Phone Device in Australia (Mobile Banking)” August 2011, Australia

2011 Patent: “Mobile Banking Systems Through Cell Phone Operator” February 2011, Bangladesh

2011 Patent: Biometric identity verification based on face and gait fusion, November 2011, Australia IP no: 2011101355

2011 Finalist: 3MT (3 Minute Thesis: Present the complete thesis in 3 minutes!)

2011 Best Paper of the Conference: S.M.E. Hossain, G. Chetty, Next Generation Identity Verification Based on Face and Gait Biometrics, International Conference on Biomedical Engineering and Technology (ICBET-2011), Kuala Lampur.

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