Curriculum Vitae Of Dr. Mohammad Alamgir Hossain



Personal Information:

Full Name	DR MOHAMMAD ALAMGIR HOSSAIN				
Father Name	MD. GOLAM RASHUL				
Nationality	INDIAN Date of Birth: 15- 06-1970				
Address for	Department of COM	PUTER SCIENCE, JAZAN UNI	VERSITY, JAZAN City,		
Correspondence	Post Box-114, Kingdom of Saudi Arabia .				
Permanent	Nandagar Housing Complex, 3rd Floor, Flat No: H, 1.A, Kazipara Main Road,				
Address	BARASAT, Kolkata, West Bengal, INDIA, Pin-700124.				
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		citations?user=L9ooLoMAAAAJ			

Educational Qualifications

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Degree	Year	Specialization	University / Institute
PhD (Computer	2012-19	Computer Vision &	NIT (National Institute of Technology).
Science &		Image Processing	Durgapur, W B, India.
Engineering)			(Central Govt University)
r iid Thesis The: Hui	nan Acuvity	Tracking and Analysi	is for Visual Surveillance
Master of	2010	Computer Science &	IIEST(Indian Institute of
Technology(M.Tech)		Information Technology	Engineering Science &
in			Technology), Shibpur, W B, India
Information Technology			(Central Govt University)
			-

M. Tech Thesis Title: Face Recognition using Sophisticated Algorithm

MCA (Master of	1997	Computer Science	University of North Bengal,
Computer			Darjeeling, W B, India.
Application)			(Govt University)

Bachelor	1993	B. Sc (Hons)	Calcutta University, Calcutta, India
			(State Govt University)

Research Activity & Achievement

	Project Completed. 1. Worked as a Co-Investigators (Co-I) of the Saudi Government-funded Project. The value of project cost is SAR 44000. Project Title: "Robotic Approach to Authenticate Staffs and Students based on Thermal Imagery" Duration: 12 (Twelve) Months Strength in the Team: 2 (two), PI & Co-I Grant No:Waed-2040
Supervise	I am supervising Two PhD scholars' as an external supervisor. They are pursuing
PhD	PhD (CS) in Image Processing & Machine Learning.
Scholars	
Session Chair	1. Special Session titled, "Digital Image & Video Processing: Its Recent Trends and Application in Research & Innovations", 3 rd IEEE International Conference on Emerging Smart Computing and Informatics (IEEE-ESCI 2021).
	 Session Chair titled, "Image & Signal Processing", 4th IEEE International Conference on Emerging Smart Computing and Informatics (IEEE ESCI-2022). Session Chair titled, "Image & Video Processing in Healthcare: Recent Trends and Applications with ML, DL, and AI in Healthcare Industry 4.0", 6th International Conference on Smart Computing and Informatics SCI-2024.
Keynote Speaker	4. Keynote Speaker titled, "Recent Research Trends and Challenges in Image Recognition and Analysis", 3rd IEEE International Conference on Emerging Smart Computing and Informatics (IEEE-ESCI 2021).

Publications / Research Papers Details:

TOTAL PUBLICATION : 40

INTERNATIONAL JOURNALS : 21

INTERNATIONAL CONFERENCE : 19

- Hendi, A.M., Hossain*, M.A., Majrashi, N.A., Limkar, S., Elamin, B.M. and Rahman, M., 2024. Adaptive Method for Exploring Deep Learning Techniques for Subtyping and Prediction of Liver Disease. Applied Sciences, 14(4), p.1488, https://doi.org/10.3390/app14041488(SCIE, Q2)
- Mohammed Alhameed, Fathe Jeribi , Bushra Elnaim , Mohammad Alamgir Hossain* , Mohammed Abdelhag, "Pandemic Disease Detection through Wireless Communication using Infrared Image Based on Deep Learning", Mathematical Biosciences and Engineering, SCIE, Q2 (2023), 20 (1), 1083-1105, DOI: 10.3934/mbe.2023050.
- R. John Martin, Ruchi Mittal, Varun Malik, Fathe Jeribi, Shams Tabrez Siddiqui, Mohammad Alamgir Hossain, S. L Swapna, "XAI-Powered Smart Agriculture Framework for Enhancing Food Productivity and Sustainability", in IEEE Access, SCIE, Q2, 2024 doi: 10.1109/ACCESS.2024.3492973
- Janarthanan R, Eshrag A. Refaee, Selvakumar K, Mohammad Alamgir Hossain, Rajkumar Soundrapandiyan and Marimuthu Karuppiah, "Biomedical Image Retrieval using Optimized Adaptive Neuro-Fuzzy Optimized Classifier system", Mathematical Biosciences and Engineering, SCIE, Q2,2022, 19(8), 8132-8151, https://doi.org/10.3934/mbe.2022380.
- Mohammad Alamgir Hossain*, Basem Assiri, "Face Emotion Recognition Based on Infrared Thermal Imagery by Applying Machine Learning and Parallelism", Mathematical Biosciences and Engineering, SCIE, Q2,2023,20(1), 913-929. DOI: 10.3934/mbe.2023042
- 6. Mohammad Alamgir Hossain*, Basem Assiri, "Facial expression recognition based on active region of interest using deep learning and parallelism", PeerJ Computer Science, SCI, Q2, 2022, 8(1), 1-32, doi.org/10.7717/peerj-cs.894.
- Mohammad Alamgir Hossain*, Basem Assiri, "An Enhanced Eye Tracking Approach Using Pipeline Computation", Arabian Journal for Science and Engineering (AJSE), @Springer Nature, SCIE Indexed, Q1, DOI:10.1007/s13369-019-04322-7, Online: 12 Feb 2020, pp 1–14(2020).
- Mohamed Z. Sayed-Ahmed, Mohammad Alamgir Hossain*, Suresh Limkar, Hesham S. El-Bahkiry, Nawazish Alam, Sherif Tawfik Amin,"Mathematical Modelling and Deep Learning Techniques for Predicting Cardiovascular Disease", Panamerican Mathematical Journal, (Scopus Indexed), Q4, 2024, 34(4). pp 230-244, DOI: https://doi.org/10.52783/pmj.v34.i4.1880
- Reda. M. Radwan, Suresh Limkar, Mohammad Alamgir Hossain*, Mohammed Eltahir Abdelhag, Hesham S El-Bahkiry, Ahamed Ali Shaik Meeran, Sherif Tawfik Amin, "Developing Secure and Interoperable Health Information Systems Using Blockchain Technology to Enhance Data Privacy, Security, and Accessibility in Healthcare", Panamerican Mathematical Journal, (Scopus Indexed), Q4, 2024, 34(4). pp 300-315, DOI: https://doi.org/10.52783/pmj.v34.i4.1885
- 10. Reda. M. Radwan, Mohammad Alamgir Hossain, Hesham S El-Bahkiry, Husham E. Homeida, Badreldin S. R. Ahmed, Hind Ali Osman, "Optimizing Electronic Health Records for Enhanced Clinical Decision Support and Improved Patient Care through Advanced Data Integration and Machine Learning Algorithms", Panamerican Mathematical Journal, (Scopus Indexed), Q4, 2024, 34(4). pp 282-299, DOI: https://doi.org/10.52783/pmj.v34.i4.1884
- 11. MA. Hossain*, H. Zogan and G. Sanyal, "Emotion Tracking And Grading Based On Sophisticated Statistical Approach", International Journal of Advances in Electronics and Computer Science, (IJAECS), Journal IF: 2.68, 5(3), ISSN (p): 2394-2835, pp: 9-13(2018).
- 12. Mohammad Alamgir Hossain*, and Goutam Sanyal, "**Tracking Humans Based on Interest Point over Span-Space in Multifarious Situations**", International Journal of Software Engineering and Its Applications, IJSEIA (**Scopus**),10(9), pp: 175-191(2016).

- 13. Mohammad Alamgir Hossain*, A. M. A Bamhdi and Goutam Sanyal, "A New Tactic to Maintain Privacy and Safety of Imagery Information", International Journal of Computers and Applications (IJCA),110(5), pp: 6-12(2015).
- 14. Mohammad Alamgir Hossain* and Goutam Sanyal, "A Novel Stochastic Tracking Approach on Human Movement Analysis", International Journal of Computers and Applications (IJCA),86(18), pp: 36-40(2014).
- 15. MA. Hossain* and G. Sanyal, "A Stochastic Statistical Approach for Tracking Human Activity", International Journal of Information Technology, Modeling and Computing (IJITMC),1(3), pp: 33-42(2013).
- 16. MA. Hossain*, D.Samanta and G. Sanyal, "Human Facial Expression Tracking and Grading by Histogram Based Approach", International Journal of Information Processing(IJIP), 7(1), 44-50(2013).
- 17. Hossain*, M.A. and Goutam, S., 2012. **Object tracking podium on region covariance for recognition and classification**. International Journal of Emerging Technologies in Computational and Applied Sciences, 2(1), pp.68-73.
- 18. MA. Hossain* and G. Sanyal, "Anew Improved Tactic To Extract Facial Expression Based On Genetic Algorithm And WVDF", International Journal of Advanced Information Technology (IJAIT), 2(5), pp. 37-44(2012).
- 19. MA. Hossain*, D.Samanta and G. Sanyal, "A Novel Approach to Extract Region from Facial Expression Based on Mutation", UACE International Journal of Computer Science and its Applications - Vol 2, No 3, pp: 15-18 (2012).
- 20. MA. Hossain, D.Samanta and G. Sanyal, "**Eye Diseases Detection based on covariance**", International Journal of Computer Science, Information Technology, & Security (IJCSITS),2(2), pp. 376 -379, (2012).
- 21. Hossain*, M.A., Samanta, D., Sanyal, G. (2012). Extraction of Panic Expression from Human Face Based on Histogram Approach. Wireless Networks and Computational Intelligence. ICIP 2012. Communications in Computer and Information Science, vol 292. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-642-31686-9 48
- 22. MA. Hossain*, D.Samanta and G. Sanyal, "Automated Smiley Face Extraction Based on Genetic Algorithm", International workshop on Signal Image Processing and Multimedia (SIPM-2012), pp. 31–37, 2012, Chennai, India, (14-15) July (2012).
- 23. MA. Hossain*, D.Samanta and G. Sanyal "A Novel Approach to Extract Region from Facial Expression Based on Mutation", Second International Conference on Advances in Computing, Control and Communication (CCN-2012), Ghaziabad, Delhi NCR, India, (16-17) June (2012).
- 24. MA. Hossain*, D.Samanta and G. Sanyal, "A novel approach for panic-face extraction based on mutation", 2012 IEEE International Conference on Advanced Communication Control and Computing Technologies (ICACCCT), (23-25)Aug (2012), ISBN: 978-1-4673-2048-1, pp: 473-77, 2012, @ IEEE, DOI: 10.1109/ICACCCT.2012.6320825.
- 25. M. A. Hossain*, D. Samanta and G. Sanyal, "A novel approach for panic-face extraction based on mutation," 2012 IEEE International Conference on Advanced Communication Control and Computing Technologies (ICACCCT), Ramanathapuram, India, 2012, pp. 473-477, doi: 10.1109/ICACCCT.2012.6320825.
- 26. MA. Hossain*, D.Samanta and G. Sanyal, "Statistical Approach for Extraction of Panic Expression", CICN-2012, pp: 420-424 @ IEEE-2012.
- 27. M.A Hossain*, H.Zogan and G. Sanyal, "EMOTION TRACKING AND GRADING BASED ON SOPHISTICATED STATISTICAL APPROACH", ISER - 300th International Conference on Science, Technology, Engineering and Management (ICSTEM) 21-22 Jan, 2018, Florence, Italy.

- 28. MA. Hossain*, B. Assiri, "Facial Emotion Verification by Infrared Image", International Conference on Emerging Smart Computing and Informatics (ESCI-2020), March 12-14, 2020. @IEEE, DOI:10.1109/ESCI48226.2020.9167616,
- 29. MA. Hossain*, B. Assiri, "Emotion Specific Human Face Authentication Based on Infrared Thermal Image", 2020 International Conference on Computer and Information Sciences (ICCIS), @IEEE Jouf University, October 13-15, 2020.
- 30. M. Hameed, MA Hossain*,"Rapid Detection of Pilgrims Whereabouts During Hajj and Umrah by Wireless Communication Framework: An application AI and Deep Learning",5th IEEE International Conference on Emerging Smart Computing and 5th IEEE International Conference on Emerging Smart Computing and Informatics(ESCI-2023), March1-3,2023, DOI: 10.1109/ESCI56872.2023.10099969
- 31. M. A. Hossain, M. H. Osman, A. A. Hamdan, M. E. Abdelhag and M. T. Kechadi, "FERLP: Facial Emotion Recognition Based on Landmark Points using Artificial Intelligence and Machine Learning," 2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT), Delhi, India, 2023, pp. 1-6, doi: 10.1109/ICCCNT56998.2023.10308392.
- 32. M.H.O. Abdalraheem, M. A. Hossain*, A. A. Hamdan, M. T. Kechadi and S. Limker, "Estimation of Facial Emotion Based on Landmark Points by Applying Artificial Intelligence and Machine Learning," 2023 7th International Conference On Computing, Communication, Control And Automation (ICCUBEA), Pune, India, 2023, pp. 1-6, doi: 10.1109/ICCUBEA58933.2023.10392279
- 33. H.Eishah, MA Hossain*, R. Masih, Y Ahmad, K Mohammad, H Mohammad, "Lightweight and High Accuracy Facial Landmark Detection Network by Applying Artificial Intelligence", 8th International Conference on Information System Design & Intelligent Applications (ISDIA-2024), Dubai, 03-04 Jan 2024, @ Springer
- 34. M.A Hossain*, Abdulnasser Metwally, Asif Khan, Sherif Amin, Hamdan Alfadil, S Limkar, "Cardiovascular Disease Prediction with Convolutional Neural Networks and Hyperparameter Tuning", 8th International Conference on Information System Design & Intelligent Applications (ISDIA-2024), Dubai, 03-04 Jan 2024, @ Springer
- 35. M. A. Hossain*, S Amin, H Eishah, Al Hamdan, A Metwally, S Limker, "Deep Learning for Predictive Modeling of Cardiovascular Disease: Optimizing Neural Networks", 8th International Conference on Information System Design & Intelligent Applications (ISDIA-2024), Dubai, 03-04 Jan 2024, @ Springer
- 36. Mohammad Alamgir Hossain et, al. "Dynamic Resource Orchestration for Computing, Data, and IoT in Networked Systems: A Data-Centric Approach", Current and Future Cellular Systems: Technologies, Applications, and Challenges, @Springer, Wiley & Sons, pp 185-207, 2025, https://doi.org/10.1002/9781394256075.ch10
- 37. Mohammad Alamgir Hossain et, al. "Cognitive Cellular Networks: Empowering Future Connectivity through Artificial Intelligence" Current and Future Cellular Systems: Technologies, Applications, and Challenges, @Springer, Wiley & Sons, pp 185-207, 2025, https://doi.org/10.1002/9781394256075.ch11
- 38. Mohammad Alamgir Hossain et, al. "IALS: Innovative Approach for Lung Segmentation Applying Artificial Intelligence and Deep Learning", International Conference on Computer, Electrical & Communication Engineering (ICCECE 2025), @ IEEE, 7-8 February 2025
- Mohammad Alamgir Hossain et, al. "Enhanced Approach to Predict Early Stage Chronic Kidney Disease", 2024 IEEE
 Asia-Pacific Conference on Geoscience, Electronics and Remote Sensing Technology (AGERS), @IEEE Indonesia
 section.
- 40. Mohammad Alamgir Hossain et, al., "KDAIDL: Kidney Disease Detection Using Artificial Intelligence and Deep Learning", 2024 27th International Conference on Computer and Information Technology (ICCIT) 20-22 December 2024, Cox's Bazar, Bangladesh, @ IEEE

Experience History

Total Experience	: 27 Years
Teaching	: 25 Years
Industrial	: 02 Years

Name of	From	To	Present	Responsibility / Profile
Organization			Designation	Achievement
JAZAN UNIVERSITY Jazan, Kingdom of Saudi Arabia	Sep- 2013	Till Date	Assistant Professor	 ✓ Worked as Head of Research of Computer Science ✓ Strategic Planning Committee Member ✓ NCAAE Member ✓ Track Leader, ✓ Course Coordinator ✓ Project guide of final year BS students ✓ Taking Regular Theory and Practical classes Achievement: 1. Worked on & completed Funded Project(Grant No: Waed-20-40). 2. Scientific Research Excellent Award-2020 & 2021. 3. Keynote Speaker: Keynote Titled, "Recent Research Trends and Challenges in Image Recognition and Analysis", 3rd IEEE-ESCI 2021. 4. 1. Session Chair Titled, "Digital Image & Video Processing: Its Recent Trends and Application in Research & Innovations", 3rd IEEE-ESCI 2021. 4. 2. Session Chair Titled, "Image & Signal Processing", 4th IEEE ESCI-2022. 5. I published 39 papers in SCI, ESCI, Springers, Elsevier journals & Conferences

During the course of my service in JAZAN UNIVERSITY I have been carried out and am being carrying out the following job and responsibilities

- ✓ As a **Research Head** I carrying all the activities guide the faculties of this department who are doing the research work related with the **Computer Vision & Image Processing**.
 - 1. Encourage, monitor & announce research activities,
 - 2. Establish research KPI that reflects the university KPI,
 - 3. Internal & External grant announcement,
 - 4. Monitor internal external grant application from staff,
 - 5. Organize Research Colloquium or Seminars,
 - 6. Produce report on research performance among staffs in terms of grants, publication, IP, professional bodies, collaborations, etc.

- 7. Establish field of expertise among the staffs.
- ✓ Follow up the progress of their work and guide them accordingly.
- ✓ Taking both the theoretical and practical classes of students.
- ✓ Timely and comprehensive preparation of examination question papers; conducting examinations, doing assessment and reviewing results, etc.
- ✓ Systematic maintenance of records of the students' results, activities and attendance.
- ✓ Proactive and focused academic counseling and career advice to students.
- ✓ Supervising the on-the-job training of the students, providing assistance to the supervisors of industry sector in charge of the college students during their summer training and presenting reports on the students' progress to the concerned heads.
- ✓ Presenting a report for every semester's activities and suggesting development to the head.
- ✓ Carrying out any others tasks assigned by the concerned heads, department or college

AREA OF INTEREST	Artificial Neural Network, Artificial Intelligence, Machine Learning, Data			
	Science,	Computer Vi	sion & Image Pro	cessing, Image Security.
	Machine	Learning,	Artificial Neura	l Network, Artificial Intelligence,
Subject Taught in	Compute	er Graphics,	Programming L	anguage, Programming I & II uses
JAZAN UNIVERSITY	C++, Wi	indows Progr	camming in C#.NI	ET, Algorithm & Data Structure I &
	II, Multi	media Applic	cation, Advanced (OS, DBMS.
NAME OF ORGANIZATION	FROM	ТО	DESIGNATIO	RESPONSIBILITY / PROFILE
			N	ACHIEVEMENT
CALCUTTA INSTITUTE	Oct	Aug 13	Assistant	✓ Head , Dept. of Computer Sc &
OF TECHNOLOGY, Uluberia, Kolkata, INDIA	07		Professor	Eng (CSE) & MCA ✓ Controller of Examination
Ciuberia, Koikata, INDIA				 ✓ Flying Team member of University Exam ✓ Member of College selection Team ✓ Taking Regular Theory and Practical classes

During the course of my service in CALCUTTA INSTITUTE OF TECHNOLOGY I carried out the following activities:

- ✓ HOD in dept. of Computer Science Engineering(CSE) and (MCA)
- ✓ Examination Controller
- ✓ Flying Team member of University Examination
- ✓ Regular meeting with the faculty members and with Principal
- ✓ Guide Final year students for their Project-Thesis
- ✓ Taking both the theoretical and practical classes of students
- ✓ Allocate project title to all the group of students of the department
- ✓ Question papers preparation, conducting examinations, complete assessment and reviewing results, etc.

- ✓ Systematic maintenance of records of the students' results, activities and attendance
- ✓ Proactive and focused academic counseling and career advice to students
- ✓ Presenting a report for every semester's activities and suggesting development to the Principal.

Subject taught in
CALCUTTA INSTITUTE
OF TECHNOLOGY

Image Processing, Computer Graphics, Software Engineering, Computer Organization & Architecture, Windows programming with Visual Basic (VB), VB.NET, Unix and Shell programming, DBMS I & II, OS, Algorithms & Data Structures.

NAME OF ORGANIZATION	FROM - TO	DESIGNATI ON	RESPONSIBILITY / PROFILE ACHIEVEMENT
TECHNO INDIA (Kolkata, India)	Mar 2001 -Sep 2007	Senior Lecturer	Worked as Senior Lecturer and HOD Department of Bachelor Comp Sc & Appl (BCA) ✓ Time to time departmental meeting with the faculty members. ✓ Meeting with the Principal of the college. ✓ Project Guide & Coordinator. ✓ Taking both theory and Practical classes
Subject taught in TECHNO INDIA		e, Windows pr	oftware Engineering, Computer Organization & ogramming with Visual Basic (VB), Algorithms
INDIAN INSTITUTE OF SOFTWARE TECHNOLOGY	Sep 2000 – Feb 2001	Lecturer	Teaching & Project guide
OCPL(Mumbai-India)	Sep 1997 Aug 2000	Programmer	Coding, Reporting, Testing

Project Name	Year	Details
1. Customer Tracking	Feb 00	The application is a product that will be placed on the outlets of Johnson &
System	- Jul 00	Johnson for maintaining customer details and others regarding different types
		of products. Generation of Reports for different customers of payments
		and other accounting details, etc. Feedback of the products. Collection of
		further new requirements from customers for a new product.

2. Inventory and Payroll Management	May 98 June 99	The project is developed for D.N International The project. It has following functionality. System handles the total payroll management of the company. Generation of pay slip, employee's payment, Track of employee's loan, salary advance and leave status. Generation of different types of management report.
3. Medo Pharmacy System	July 99 Jan 00	The project is developed for Unique Pharmacy & Diagnostic Center. It has following functionality. Search of availability of medicines prescribed by Doctors, if not then message send to doctors & insert it to the list of unavailable medicines. Maintenance of inventory of medicines, Generation of different types of Reports, Generation and Printing of Receipt, Inventory control of the total system.
4. Short Term Deposit Management System	2001	This project is dealing with the short term deposit scheme. Among the different type of scheme (like monthly, quarterly, yearly, old citizen scheme) are the key points of this project. This will maintain all types of accounts and their payment report maintenance. All types of payments.
5. Pathology Centre Management System	2001	Develop an application for managing all functionality of modern pathology center. Generating report of different test. Collection of daily, monthly and yearly.
6. Marvel Insurance Management System	2002	Develop an application for managing all functionality of Insurance system, such as Issuing of Policy, Policy administration, Processing of Claim, Calculation of agent's commission. Generation of management reports.
7. Automation in Hardware Management System	2002	This project is specially developed for automatically selection of different hardware for making a computer. Here a wizard will help to choose the required configuration from a set of alternative and the cost of the hardware will be calculating automatically. It maintains stocks and sales and purchases of the company. It generates all types of report related to the customer of the company. Generation of management reports.
8. Retail Shopping Management System of RPG.	2003	This project is dealing with the present developing shopping mall like that of Pantaloons. This project is developed for RPG group. This deals with all the inventory, stock and sales and purchases of the company that are related to the shopping centers. Generation of management reports.
9. Voter Identification and Authentication	DEC' 12	This is a Thesis of final year students of MCA. It was related to a person coming for casting his or her vote is to be performed authentically by taking his or her image (photo) directly from the web cam placed on the proper position.

Personal Details

Personal details:	
Permanent Address	Nandagar Housing Complex, 3 rd Floor, Flat No: H, 1/A Kazipara Main
	Road, Barasat, Kolkata-700124, West Bengal, India.
Present Address	Department of Computer Science, College of Computer Science &
	Information Technology, Jazan University, Kingdom of Saudi Arabia.
Nationality	Indian
Marital Status	Married
No of Child	One
Date of Birth	15-06-1970
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Driving License No	WB 2520120146821
References	1. Dr Baseem Assiri, DEAN, College of Computer Science,
	Information Technology & Computer Network, Jazan University,
	KSA. Mobile: +966-599933185, Email: bas0911@hotmail.com.
	2. Dr Adullah Sheneamer, Vice Dean, Academy, College of Computer
	Science and Information Technology, Jazan University, KSA.
	Mobile: +966-557578272.
	3. Dr. Mohammed Alhameed, HOD of the department Computer
	Science, College of Computer Science and Information Technology,
	Jazan University, KSA. Mobile: +966-565118396



Dr. Mohammad Alamgir Hossain