

KARIM Mohammed Rezaul

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Present Profile: <http://www.softminister.com/karim.pdf>



Sex: Male

Nationality: British

♣ Objective

Designing and teaching modules/subjects related to Research Methods & Dissertation Procedures, Computing, E-business, Networking, Algorithm Design, Quantitative methods, Information Systems & Development, Programming, Distributed Database, Business Intelligence, Web Technology, Software Engineering, Statistical Computing, Modelling Techniques in Business & Management, Communications Technology and Mathematics. Aspiring to evaluate the breadth, depth, pace and challenge of curricular delivery. Providing a suitable variety of teaching methods, where intellectual and practical knowledge and skills are delivered effectively. **Undertaking and running productive IT-based Business Research and Development (R&D) projects.**

♣ Professional Experience

Position	Institution	Period (From – To)
Visiting Professor	Wrexham Glyndwr University, United Kingdom https://www.glyndwr.ac.uk/ ; https://arclabnet.weebly.com/people.html	February 2019 to date
Adjunct Professor	IPE Management School Paris (http://www.ipe-paris.fr/ , http://www.ipe-paris.fr/dba-in-bangladesh/)	September 2018 to date
Professor	Department of Computer Science & Engineering (CSE), Sonargaon University, Dhaka, Bangladesh http://www.su.edu.bd/	October 2019 to date
Professor (Adjunct) – Full time	Department of Computer Science & Engineering (CSE), Daffodil International University (DIU), Dhaka http://daffodilvarsity.edu.bd/	May 2017 to May 2019
Visiting Research Fellow	Faculty of Arts, Science & Technology, Wrexham Glyndwr University, United Kingdom https://www.glyndwr.ac.uk/	November 2014 to date
Professor (Adjunct)	Department of Computer Science & Engineering (CSE), United International University (UIU), Dhaka http://www.uiu.ac.bd/	June 2018 to October 2018
Advisor, International Affairs & Head of Research	Bangladesh Digital Education Research Ltd. http://www.bdeducation.org.bd/bdeduwebsitefiles/team.php	May 2017 to date
Visiting Lecturer	Glyndwr University, London Campus, United Kingdom https://www.glyndwr.ac.uk/	September 2015 to April 2017
Honorary Professor of Computing & Communications Technology	Stichting Euregio University College, Netherlands (https://euregio-university.com/)	August 2013 to August 2018
Professor (Adjunct)	Department of ICT, Faculty of Science & Technology, Bangladesh University of Professionals (BUP), Dhaka http://bup.edu.bd/	July 2015 to December 2015
Senior Lecturer	St Patrick's College, High Street, Stratford, London, E15 1AJ	February 2014 to June 2015
Senior Lecturer	The London College, UCK, Victoria Gardens, Notting Hill Gate, London W11 3PE, UK	February 2014 to May 2015
Chairman & Managing Director	GreenTech Institute of Business & Science (GIBS), Alongkar Moor, Opposite to A K Khan Gate-2, Chittagong, Bangladesh, http://www.gibsbid.org (server reinstallation is in progress)	2011 to date
Director of studies and Senior Lecturer	St. Peter's College of London, 12-14 Vallance Road, London E1 5HR	January 2011 to May 2012
Senior Lecturer & Supervisor	ETHames Graduate School, 197 Marsh Wall, Docklands, London, E14 9SG	August 2011 to March 2012

Senior Lecturer	Williams College, Morley House, 26-28 Holborn Viaduct, London EC1A 2AT	June 2011 to March 2012
Director of studies and Senior Lecturer	London St. Andrew's College, Whitechapel Technology Centre, 65-75 Whitechapel Road, London E1 1DU	October 2010 to December 2010
Visiting Lecturer	Cecos London College, 59 Compton Road, Islington, London N1 2YT, United Kingdom.	January 2010 to December 2011
Visiting Lecturer	Churchill College, 116 Cavell Street, London E1 2JA	February 2010 to June 2010
Senior Lecturer	Guildhall College, 56-60 Nelson Street, London E1 2DE	January 2010 to June 2010
Lecturer and Programme Leader	Guildhall College, 56-60 Nelson Street, London E1 2DE	January 2009 to December 2009
Lecturer	Barking College, Dagenham Road, Romford, Essex, RM7 0XU	March 2008 to August 2008
Lecturer	Gemini College, 667 Silbury Boulevard, Milton Keynes, MK9 3AZ	September 2008 to April 2009
Lecturer	Cambridge College of Learning 151-153 Curtain Road, London EC2A 3QL	January 2007 to November 2009
Lecturer	Central College (presently eCollege), London EC2A 3DT	April 2005 to September 2007
Visiting Lecturer	London Metropolitan University 166-220 Holloway Road, London N7 8DB	February 2002 to June 2005
Teaching Assistant	Bangladesh University of Engineering & Technology (BUET), Dhaka	December 1998 to September 1999

♣ Academic Qualification

Degree Awarded	Institution	Completed in	Discipline
PhD	NEWI, University of Wales, UK (Presently Glyndŵr University, Wrexham, UK)	October 2007	Computing and Communications Technology
M.Sc. Technology (English medium)	Norwegian University of Science & Technology (NTNU), Trondheim, Norway.	2001	Marine Technology
B.Sc. Engineering (English medium)	Bangladesh University of Engineering & Technology (BUET), Dhaka, Bangladesh	1998	Naval Architecture & Marine Engineering
Higher Secondary Certificate (H.S.C) (Equivalent to A-level)	Government Hajee Mohammed Mohsin College, Chittagong, Bangladesh.	1990	<i>Main Area:</i> Physics, Chemistry, English, Mathematics, Zoology, and Botany.
Secondary School Certificate (S.S.C) (Equivalent to GCSE)	Halishahar Begumjan High School, Chittagong, Bangladesh.	1988	<i>Main Area:</i> Physics, Chemistry, English, Mathematics, and Biology.

♣ Technical Skills

- Programming Skills: JAVA, C#, .Net, C++, MATLAB, FORTRAN, Prolog, Visual Basic
- Web design/development: HTML, XHTML, CSS, JAVA Script, ASP, JSP, PHP, XML and XSL.
- Interested to work on any kind of web application framework such as **SharePoint, ColdFusion** etc.
- Multimedia & Web development: Dreamweaver, WYSIWYG Web Builder, Website X5, Web Studio, CoffeeCup, Photoshop, Flash, etc.
- Web development servers: WAMP, XAMPP, EasyPHP etc.
- Content Management System (CMS): Joomla, e107, Ametys etc.
- E-Learning development: Chamilo & Moodle
- CASE/IDE & Data modelling tools: UML, VISIO, Edraw, NetBeans, JCreator etc.
- Database: MS Access, MySQL, MS SQL Server, Oracle
- Statistical packages: R, Dataplot, Matlab
- Microsoft Packages: MS Project, MS word, Excel, Access, Power point, Publisher etc.
- Other Skills: Networking, Computer system (e.g. assembly, installation and troubleshooting).

- OS: Windows NT/2000/XP/Vista/Windows 7/8/10, UNIX/LINUX.

♣ Ongoing Web & Software Development Projects

Projects	Responsibilities: as IT Project Manager and/or Software Tester
<ul style="list-style-type: none"> ⊗ <i>Two Classified (Buying & Selling) websites – An Advanced level E-commerce development</i> ⊗ <i>Two Job portals – Integrated high profile Jobsites</i> ⊗ <i>One Integrated E-business portal: www.pigeonia.com (server reinstallation is in progress)</i> ⊗ <i>An integrated ERP system for University, College and School management</i> ⊗ <i>An integrated ERP system for Organisation management</i> ⊗ <i>An integrated Web conference, Online Teaching and meeting system (Audio-video-text)</i> ⊗ <i>Web-based ERP software systems for TWO European Awarding bodies</i> ⊗ <i>Customising E-learning or virtual learning development for Schools/Institutes/University: by Chamilo and Moodle</i> 	<ul style="list-style-type: none"> ○ Interacting with clients on all levels to help resolve IT related issues in a timely fashion. ○ Managing and coordinating third party vendors ○ Identifying and resolving project issues. ○ Defining required resources and schedule resources for project implementation. ○ Scheduling the implementation of new IT initiatives and budgetary constraints. ○ If required managing the planning and implementation of additions, deletions and major modifications to existing and new systems. ○ Directing and overseeing the project team which is comprised of third parties & internal personnel. ○ Leading all testing activities including identification of what needs to be tested, planning, specification and execution. ○ Preparation of test plans using appropriate structured testing methodologies and Test Automation tools, test cases and test scripts in an agile environment ○ Developing and executing QA test plans, scripts, reporting failures ○ Liaising with R&D, developers and analysts before and after executing QA test plans & scripts ○ Performing the automated tests by: Selenium, Cucumber (using formatter JSON, HTML, JUnit), Jenkins ○ Evaluating and assessing projects. ○ Ensuring standards and policies are adhered to at all times. ○ Effectively communicate project updates.

How an organisation could benefit: I am connected to an efficient network consisting of a group of people (around India, Bangladesh, Pakistan, USA, UK & some European countries) who have got excellent expertise in developing any kind of robust systems including ERP such as web-based, mobile applications, cloud-based, web development etc. Therefore, when **undertaking an IT based project** I am able to convince the experts or developers towards reducing at least 30~40% of the production cost which is HUGE I believe! I can also provide services related to outsourcing.

Note that we hosted an **International Contest** on Programming & Systems development (ICPSD'14), one of the **BIGGEST contests in ASIA**. The contest aimed to unite tomorrow's young engineers, researchers, systems analysts & Designers at a common platform and inspire them towards building overall supportable Information systems. I was the **General chair of ICPSD'14**.

For details, please visit www.icpsd.gibsbd.org ; <http://www.icpsd.gibsbd.org/guide4cont.html> (server reinstallation is in progress)

♣ Teaching Modules (taught at different Institutions) and Duties

<p>Computer Fundamentals, Introduction to Computer Science, IT Applications (MS Office Packages), Information Technology Fundamentals, Principle of Hypermedia, IT and Work Environment, Computer Assisted Learning,</p> <p>Database Fundamentals, Design & Implementation Data Analysis and Design, Relational Database Applications in Business, Distributed Data</p> <p>Network & Internet Technology, Network Design, Computer & Network Technology, Network Planning and Management, Network development (based on CCNA), Networking Infrastructure, Internet Software Architecture, Internet System administration, IP Networking,</p>	<p>Object Oriented Development, Object Oriented Programming, Advanced Object Oriented Development, Programming: Java (Introduction & Adv. Level), Software Engineering, Applied Programming, Problem Solving in Programming (C# & Java)</p> <p>Information Systems, Systems Development Methodologies, Systems Analysis and Design, Systems Development, Management Information Systems (MIS),</p> <p>Introduction to Internet (Web Design), Web Development, Website Creation and Management, Quality Systems in IT, Knowledge-Based Systems, Computer Security and Risk Analysis,</p> <p>Mathematics for Engineers Engineering Science Analytical Methods for Engineers</p>	<p>Programming Project (Java), MSc Project & Dissertation, Strategic Business & IT Management, Investigative Study, Project Design/Implementation/& Evaluation, Research Methods for Strategic Managers, Research Methods and Dissertation Procedures, Research Project, Research Skills, IT Project Management</p> <p>Professional Issues in Computing, Employability and Professional Development,</p> <p>Business Decision Making, Quantitative Methods, The Business of e-Tourism, Computer Applications in Business and Finance, Modelling Techniques for Business and Management, Contemporary Application Development Methods, Managing the Information Resources, Principle of Programming in Business, Statistics</p>
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Module/Subject	Level	Department	Duration	Awarding body/organisation	Position	College/university
Research Skills	Postgraduate Diploma (PgD)	Computer Science	1.5 years	Association of Business Practitioners (ABP), UK	Director of studies and Senior Lecturer	St. Peter's College of London
Systems Development Methodologies	PgD	Computer Science	1.5 years	ABP, UK	Director of studies and Senior Lecturer	St. Peter's College of London
Object Oriented Programming	PgD	Computer Science	1.5 years	ABP, UK	Director of studies and Senior Lecturer	St. Peter's College of London
Data Analysis and Design (PgD)	PgD	Computer Science	1.5 years	ABP, UK	Director of studies and Senior Lecturer	St. Peter's College of London
Professional Issues in Computing	PgD	Computer Science	1.5 years	ABP, UK	Director of studies and Senior Lecturer	St. Peter's College of London
Computer Security and Risk Analysis	MSc	Computing & Communications Technology	8 months	University of Greenwich, UK	Senior Lecturer & Supervisor	Ethames Graduate School, London
Network & Internet Technology	MSc	Computing & Communications Technology	8 months	University of Greenwich, UK	Senior Lecturer & Supervisor	Ethames Graduate School, London
MSc Project & Dissertation	MSc	Computing & Communications Technology	8 months	University of Greenwich, UK	Senior Lecturer & Supervisor	Ethames Graduate School, London

Strategic Business & IT Management	BSc	CSE	10 months	University of Gloucestershire, UK	Senior Lecturer	Williams College, London
Computer Assisted Learning	BSc	CSE	10 months	University of Gloucestershire, UK	Senior Lecturer	Williams College, London
Investigative Study	BSc	CSE	10 months	University of Gloucestershire, UK	Senior Lecturer	Williams College, London
Network Design	BSc	CSE	10 months	University of Gloucestershire, UK	Senior Lecturer	Williams College, London
Project Design, Implementation & Evaluation	HND	CSE	10 months	University of Gloucestershire, UK	Senior Lecturer	Williams College, London
Computer & Network Technology	Advanced Professional Diploma	Computer Science	3 months	British Computer Society (BCS)	Director of studies and Senior Lecturer	London St. Andrew's College
Information Systems	Advanced Professional Diploma	Computer Science	3 months	BCS	Director of studies and Senior Lecturer	London St. Andrew's College
Internet technology	MSc	Computing, Communications Technology & Mathematics	3 years 4 months	London Metropolitan University	Visiting Lecturer	London Metropolitan University
Programming: Java (Introduction & Adv. Level)	BSc	Computing, Communications Technology & Mathematics	3 years 4 months	London Metropolitan University	Visiting Lecturer	London Metropolitan University
IT Applications	BSc	Computing, Communications Technology & Mathematics	3 years 4 months	London Metropolitan University	Visiting Lecturer	London Metropolitan University
Principle of Hypermedia	BSc	Computing, Communications Technology & Mathematics	3 years 4 months	London Metropolitan University	Visiting Lecturer	London Metropolitan University
IT and Work Environment	BSc	Computing, Communications Technology & Mathematics	3 years 4 months	London Metropolitan University	Visiting Lecturer	London Metropolitan University
Introduction to Internet (Web Design)	BSc	Computing, Communications Technology & Mathematics	3 years 4 months	London Metropolitan University	Visiting Lecturer	London Metropolitan University
Introduction to Computer Science	BSc	Computing, Communications Technology & Mathematics	3 years 4 months	London Metropolitan University	Visiting Lecturer	London Metropolitan University
Network Planning and Management	BSc	Computing, Communications Technology & Mathematics	3 years 4 months	London Metropolitan University	Visiting Lecturer	London Metropolitan University
Management Information Systems (MIS)	PgD	Computer Science	2 years	NCFE, UK	Senior Lecturer and Programme Leader	Guildhall College, London
Research Methods and Dissertation procedures	BSc	Business Studies	2 years	University of East London	Senior Lecturer and Programme Leader	Guildhall College, London
Computer Fundamentals	Advance Diploma	Business Studies	2 years	Association of Business Executive (ABE), UK	Senior Lecturer and Programme Leader	Guildhall College, London
Business Decision making	Advance Diploma	Business Studies	2 years	ABE, UK	Senior Lecturer and Programme Leader	Guildhall College, London
Quantitative methods	Advance Diploma	Business Studies	2 years	ABE, UK	Senior Lecturer and Programme Leader	Guildhall College, London

Computer Applications in Business and Finance	Advance Diploma	Business Studies	2 years	ABE, UK	Senior Lecturer and Programme Leader	Guildhall College, London
Relational database applications in Business	Advance Diploma	Business Studies	2 years	ABE, UK	Senior Lecturer and Programme Leader	Guildhall College, London
Managing the Information Resources	Advance Diploma	Business Studies	2 years	ABE, UK	Senior Lecturer and Programme Leader	Guildhall College, London
Principle of programming in Business	Advance Diploma	Business Studies	2 years	ABE, UK	Senior Lecturer and Programme Leader	Guildhall College, London
Networking Concepts	Advance Diploma	Computer Science	2 years	Edexcel, UK	Senior Lecturer and Programme Leader	Guildhall College, London
Contemporary Application Development Methods	Advance Diploma	Computer Science	2 years	Edexcel, UK	Senior Lecturer and Programme Leader	Guildhall College, London
Systems Analysis and Design	Advance Diploma	Computer Science	2 years	Edexcel, UK	Senior Lecturer and Programme Leader	Guildhall College, London
Programming Project (Java)	BSc	Computer Science	2 years 5 months	NCC, UK	Lecturer	Central College London (presently eCollege)
Web design	BSc	Computer Science	2 years 5 months	NCC, UK	Lecturer	Central College London (presently eCollege)
Internet System administration	BSc	Computer Science	2 years 5 months	NCC, UK	Lecturer	Central College London (presently eCollege)
Systems development	BSc	Computer Science	2 years 5 months	NCC, UK	Lecturer	Central College London (presently eCollege)
Web development	MSc	Computer Science	2 years 5 months	Sunderland University	Lecturer	Central College London (presently eCollege)
Network development (based on CCNA)	MSc	Computer Science	2 years 5 months	Sunderland University	Lecturer	Central College London (presently eCollege)
Object Oriented Development	MSc	Computer Science	2 years 5 months	Sunderland University	Lecturer	Central College London (presently eCollege)
Object Oriented Programming	MSc	CSE	2 years	Sunderland University	Visiting Lecturer	Cecos London College
Web development	MSc	CSE	2 years	Sunderland University	Visiting Lecturer	Cecos London College
Research methods	MBA	Business	1 year	RDI, University of Wales	Visiting Lecturer	Cecos London College
Research Methods for Strategic managers	PgD	Business	1 year	Edexcel, UK	Visiting Lecturer	Cecos London College
Research Project	HND	Business	1 year	Edexcel, UK	Visiting Lecturer	Cecos London College
Networking Concepts	HND	Computer Science	11 months	Edexcel, UK	Senior Lecturer	London Churchill College
Research Project	HND	Business	11 months	Edexcel, UK	Senior Lecturer	London Churchill College
Information Technology Fundamentals	Advance diploma	Computer Science	1 year 10 months	NCC, UK	Lecturer	Cambridge College of Learning
Software Engineering	Advance diploma	Computer Science	1 year 10 months	NCC, UK	Lecturer	Cambridge College of Learning
Software Engineering	Advance diploma	Computer Science	1 year 10 months	NCC, UK	Lecturer	Cambridge College of Learning

Systems Analysis and Design	Advance diploma	Computer Science	1 year 10 months	NCC, UK	Lecturer	Cambridge College of Learning
Internet Software Architecture	BSc	Computer Science	1 year 10 months	Sunderland University	Lecturer	Cambridge College of Learning
Project	BSc	Computer Science	1 year 10 months	Sunderland University	Lecturer	Cambridge College of Learning
Advanced Object Oriented Development	BSc	Computer Science	1 year 10 months	Sunderland University	Lecturer	Cambridge College of Learning
Modelling techniques for business and management	MBA	Business	6 months	Sunderland University	Lecturer	Barking College, London
Statistics	MBA	Business	6 months	Sunderland University	Lecturer	Barking College, London

Duties

- Preparing and delivering Modules set for teaching.
- Conducting lectures and/or seminars.
- Conducting/leading Research Methods workshops for degree and master programmes.
- Undertaking moderation work related to programme management and assessment materials.
- Supervising students for dissertation and course work.
- Conducting appropriate first and second marking of dissertations and assessments of the taught modules.
- Participating in team meetings and contribute to the development of academic programmes.
- Liaising with professional organisations, and submit any reports ensuring the communication of information to all relevant parties.
- Preparing for and attend all exam board meetings, course review meetings and attend any other meetings as deemed necessary.
- Supervising approval, registration and enrolment details of students and to liaise with awarding bodies to process their registration and enrolment.
- Being responsible for the selection, development and day-to-day management of the faculty members related the relevant programmes and also to ensure that the faculty members meet the academic standards required by the College and awarding bodies.
- Assisting in liaising with the universities for affiliations and further development of existing relationships.
- Undertaking any other duties within the teaching/programme administration role as required by the college.

♣ Special Expertise

- ⊗ Systems Development
 - University management system (Software)
 - Web information system
 - Library systems development
 - Resources development (Physical & Electronic)
- ⊗ International Collaboration
- ⊗ Curriculum development
- ⊗ Supervision of BSc/MSc/PhD project & dissertation
- ⊗ Hosting International Conferences/Contest
- ⊗ Collaboration with International Researchers
- ⊗ Establishment of International Journal(s)

♣ Software developed

CoLoRaDe Algorithm (<http://doi.ieeecomputersociety.org/10.1109/ICN.2007.29>) by JAVA

- to control the long-range dependent self-similar network traffic.

BPTraSha Algorithm (<http://doi.ieeecomputersociety.org/10.1109/AICT.2007.16>) by JAVA and MATLAB

- to smooth out the bursty nature of network traffic.

HEAF estimator (<http://www.springerlink.com/content/m135775436434121/>) by JAVA and MATLAB

- to estimate the long-range dependence phenomena (e.g. finance, economics, stock return, network traffic etc.).

Estimators for measuring the intensity long-range dependence phenomena

- Rescaled-range (R/S) statistics, Variance-time (V/T) statistics, Higuchi method, Periodogram analysis, FARIMA-based Hurst parameter, Integration of R/S, V/T, Higuchi and HEAF estimators (by JAVA).

Estimation of the index of heavy-tail distribution (<http://www.springerlink.com/content/x170815150313117/>)

- Hill estimator, Dehaan's moment estimator, Dynamic QQ-plot, static QQ-plot, Log-log complementary distribution (LLCD) Plot, Sum plot (by JAVA and MATLAB).

Calculation and Analysis of Marine Propeller Blade Strength

- a software developed by FORTRAN in B.Sc. Engineering.

♣ Mathematical background

I have got a sound mathematical background through my "A" level, B.Sc. engineering, M.Sc. technology and PhD courses. Some of the mathematical backgrounds include:

Differential Calculus and Integral Calculus, Statics and Dynamics (Mechanics), Co-ordinate Geometry and Ordinary Differential Equations, Vector Analysis and Differential equations (special type), Statistics and Partial Differential equations, Matrices and Determinants, Trigonometry, Algebra, Fourier Analysis, Laplace transform, Harmonic function, Complex variables, Set theory, Fractal mathematics, Monte Carlo methods, Stochastic calculus, Time series analysis, Series: Binomial, Logarithmic, Exponential, Taylor, McLaurine, Cauchy, Cauchy-Riemann etc.

♣ Teaching Mathematics

During 2003-2005, as a Cover Supervisor or Maths teacher I taught at about 16/17 different Schools in London. In most cases I used to teach A/AS – level Maths and sometimes GCSE Maths as well. I used to work for ITN teachers Ltd., Hays Education and Capita education.

♣ Professional Development

1. In October 2007, I completed my PhD degree in Computing and Communications Technology from NEWI, university of Wales. My research area (in PhD) is "Estimating Long-range dependent self-similar Network traffic: performance evaluation and control". The research area is mainly based on the theory of computing, simulation and designing algorithm and implementation. I have developed the following methods/algorithms which can contribute to improving the quality of service of network (e.g. Internet).
 - A mathematical model/method [HEAF(2)] which estimates the Hurst parameter. Note that Hurst parameter signifies the intensity of long-range dependent network traffic. The proposed method can be used to evaluate the performance of real-time network traffic.
 - An algorithm, known as CoLoRaDe, to control the self-similar network traffic.
 - Approximately unbiased version of HEAF and FARIMA (time series) based Hurst parameter.
 - An algorithm, known as BPTraSha, which can control the network traffic by shaping the bursty nature of packet traffic.
 - I proposed several analytical methods which can be used to characterise the network traffic behaviour.

Note that the long-range dependence phenomena are observed and studied in various fields of research, namely in economics, finance, the stock market, oil price, hydrology, climatology, cardiology, ecology, soil science and telecommunications. Therefore, **HEAF(2)** can be used in these areas of research. It has been proved that HEAF(2) yields quick, reliable and robust estimation process, and also outperforms other existing estimators such as Rescaled-range (R/S) analysis, Variance-time (V/T) analysis, Higuchi and Wavelet-based methods.

2. I had joined several conferences to present my published research papers and to chair some sessions.
3. Some of my published papers are given in the following URLs:

<http://www.springerlink.com/content/x170815150313117/>
http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/r/Rezaul:Karim_Mohammed.html
<http://www.springerlink.com/content/m135775436434121/>
<http://doi.ieeecomputersociety.org/10.1109/ICN.2007.29>
<http://doi.ieeecomputersociety.org/10.1109/AICT.2007.16>
<http://portal.acm.org/citation.cfm?id=1304614.1306714&coll=&dl=ACM>
<http://portal.acm.org/citation.cfm?id=1304614.1306796&coll=portal&dl=ACM>
http://paper.ijcsns.org/07_book/html/200704/200704010.html
http://search.ijcsns.org/02_search/02_search_03.php?number=200702106

<http://www.iaia.org/conferences2007/AwardsAICT07.html> ← Winner ‘Best Paper’ award
http://www.google.co.uk/#hl=en&q=karim+mohammed+rezaul+traffic&aq=0&aqi=g2g-slg-sx1&aql=&oq=karim+mohamm&gs_rfai=&fp=ab43915aad0901f

♣ Publications in Book, Book chapters, Journals and Conference proceedings

Recent Publications

- [1] Kazy Noor E Alam Siddiquee, Md. Shabiul Islam, Karim Mohammed Rezaul, Vic Grout, Mohammad Yasin Ud Dowla. “Detection, Quantification and Classification of Ripened Tomatoes using a Comparative Analysis of Image Processing and Machine Learning Methods: A case study”, April 2020, *IET Image Processing*, DOI: [10.1049/iet-ipr.2019.0738](https://doi.org/10.1049/iet-ipr.2019.0738)
- [2] J. Saha, S. Ahmmed, M. Tamal, M. Ali and Karim Mohammed Rezaul, "ICT Based Mathematics Skill Development Program: An Initiative to Overcome Mathematics Anxiety", *International Journal of Emerging Technologies in Learning*, Vol. 15, No. 14, 2020.
- [3] J. Ferdous, M. Fuad Newaz Khan, Karim Mohammed Rezaul, M. Ahmed Tamal, M. Abdul Aziz and P. Miah, "A Hybrid Framework for Security in Cloud Computing Based on Different Algorithms", *International Journal of Network Security*, Vol. 22, 2020.
- [4] M. Tamal, M. Antora, Karim Mohammed Rezaul, M. Abdul and P. Miah, "Adverse Impacts of Social Networking Sites on Academic Result: Investigation, Cause Identification and Solution", *International Journal of Advanced Computer Science and Applications*, Vol. 10, No. 12, 2019.
Available: [10.14569/ijacsa.2019.0101272](https://doi.org/10.14569/ijacsa.2019.0101272).
- [5] M. Tamal, M. Saiful, M. Jisan, M. Abdul, P. Miah and Karim Mohammed Rezaul, "Heart Disease Prediction based on External Factors: A Machine Learning Approach", *International Journal of Advanced Computer Science and Applications*, Vol. 10, No. 12, 2019. Available: [10.14569/ijacsa.2019.0101260](https://doi.org/10.14569/ijacsa.2019.0101260).

Forthcoming Books

1. **A Practical Approach to System Design, Development & Testing (by JAVA): From Novice to Professional. A Text Book for Undergraduate & Postgraduate students**, Karim Mohammed Rezaul and Vic Grout (Under process with Elsevier/Springer). Tentative publication date: November 2020
2. **ICT Project Management for ICT-based Pedagogy System**, Suman Ahmmed and Karim Mohammed Rezaul (Under process with Elsevier/Springer/Taylor & Francis/Sage). Tentative publication date: September 2020
3. **Automation in Diagnosing Mathematics Anxieties**, Jashodhan Saha and Karim Mohammed Rezaul (Under process with Elsevier/Springer/Taylor & Francis/Sage). Tentative publication date: September 2020

Books

1. Karim M. Rezaul, “Strategic and Pragmatic E-Business: Implications for Future Business Practices”, Edited book publication, Chief Editor, IGI Global Publishing (<http://www.igi-global.com/>), USA. Publication date: May 2012
<http://www.igi-global.com/book/strategic-pragmatic-business/61641>
2. Karim M. Rezaul & Grout, V., “The Fractal Internet: Traffic Analysis, Simulation, Estimation and Control”, Publishers: NEWI, 2007, United Kingdom. ISBN: 978-0-946881-57-4.
<http://www.amazon.co.uk/Fractal-Internet-Analysis-Simulation-Estimation/dp/094688157X> ;
<http://www.lulu.com/product/hardcover/the-fractal-internet-traffic-analysis-simulation-estimation-and-control/2442268>

Book Chapters

1. Mohammad Mahfuzur Rahman and Karim Mohammed Rezaul, Information security management: Awareness of threats in E-Commerce, In " Threats, Countermeasures, and Advances in Applied Information Security", Editors: Manish Gupta, John Walp, Raj Sharman, 2012, Publisher: IGI Global (formerly Idea Group Inc.)
<http://www.igi-global.com/book/threats-countermeasures-advances-applied-information/60768>
2. Md Delwar Hussain Mahdi and Karim Mohammed Rezaul, Detecting Credit Fraud in E-business System: An Information Security Perspective on the Banking Sector in UK, In "Strategic and Practical Approaches for Information Security Governance: Technologies and Applied Solutions ", Editors: Manish Gupta, John Walp, Raj Sharman, 2012, Publisher: IGI Global (formerly Idea Group Inc.)
<http://www.igi-global.com/book/strategic-practical-approaches-information-security/58283>

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♣ Member of Editorial Board

International Journal on Advances in Networks and Services (Networking)

(http://www.ariajournals.org/networks_and_services/index.html) <--- You can download different published issues from here

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World Academy of Science, Engineering and Technology, (Natural and Applied Sciences)

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International Journal of Grid and High Performance Computing (IJGHPC)

(<http://www.igi-global.com/bookstore/titledetails.aspx?titleid=1105&detailstype=reviewboard>)

♣ General Chair/ Technical Program Committee (TPC)/ Reviewer of Journal and Conference

The Twelfth International Conference on Communication Theory, Reliability, and Quality of Service ([CTRQ 2019](#)), **Member** of TPC

The Eleventh International Conference on Communication Theory, Reliability, and Quality of Service ([CTRQ 2018](#)), **Member** of TPC

The Tenth International Conference on Communication Theory, Reliability, and Quality of Service ([CTRQ 2017](#)), **Member** of TPC

The Ninth International Conference on Communication Theory, Reliability, and Quality of Service ([CTRQ 2016](#)), **Member** of TPC

The Eighth International Conference on Communication Theory, Reliability, and Quality of Service ([CTRQ 2015](#)), **Member** of TPC

The 12th International Conference on Networking and Services ([ICNS 2016](#)), **Member** of TPC

The 11th International Conference on Networking and Services ([ICNS 2015](#)), **Member** of TPC

The 10th International Conference on Networking and Services ([ICNS 2014](#)), **Member** of TPC

The 8th International Conference on Digital Society ([ICDS 2014](#)), **Member** of TPC

The Seventh International Conference on Communication Theory, Reliability, and Quality of Service ([CTRQ 2014](#)), **Member** of TPC

The Thirteenth International Conference on Networks ([ICN 2014](#)), **Member** of TPC

The 38th IEEE Conference on Local Computer Networks ([LCN 2013](#)), **Member** of TPC

The 9th International Conference on Networking and Services ([ICNS 2013](#)), **Member** of TPC

The Twelfth International Conference on Networks ([ICN 2013](#)), **Member** of TPC

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The Sixth International Conference on Communication Theory, Reliability, and Quality of Service ([CTRQ 2013](#)), **Member** of TPC

The 37th IEEE Conference on Local Computer Networks ([LCN 2012](#)), **Member** of TPC

The 8th International Conference on Networking and Services ([ICNS 2012](#)), **Member** of TPC

The Eleventh International Conference on Networks ([ICN 2012](#)), **Member** of TPC

The Sixth International Conference on Digital Society ([ICDS 2012](#)), **Member** of TPC

The Fifth International Conference on Communication Theory, Reliability, and Quality of Service ([CTRQ 2012](#)), **Member** of TPC

The 36th IEEE Conference on Local Computer Networks ([LCN 2011](#)), **Member** of TPC

The 20th IEEE International Conference on Computer Communications and Networks ([ICCCN 2011](#)), **Member** of TPC

The 7th International Conference on Networking and Services ([ICNS 2011](#)), **Member** of TPC

The Fourth International Conference on Communication Theory, Reliability, and Quality of Service ([CTRQ 2011](#)), **Member** of TPC

The Fifth International Conference on Digital Society ([ICDS 2011](#)), **Member** of TPC

The Tenth International Conference on Networks ([ICN 2011](#)), **Member** of TPC

The 2010 International Conference on Modeling, Simulation and Visualization Methods ([MSV'10](#)), Part of WORLDCOMP'10, **Member of TPC**

The 6th International Conference on Networking and Services ([ICNS 2010](#)), **Member** of TPC

The Third International Conference on Communication Theory, Reliability, and Quality of Service ([CTRQ 2010](#)), **Member** of TPC

The 35th IEEE Conference on Local Computer Networks ([LCN 2010](#)), **Member** of TPC

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International GIS workshop 2010 ([GISWS2010](#)), **Member** of TPC

The 5th International Multi-Conference on Computing in the Global Information Technology ([ICCGI 2010](#)), **Member** of TPC

International Multi-Conference on Engineering and Technological Innovation ([IMETI 2010](#)), **Reviewer**

The 34th IEEE Conference on Local Computer Networks ([LCN 2009](#)), **Member** of TPC

The Second International Conference on Communication Theory, Reliability, and Quality of Service ([CTRQ 2009](#)), **Member** of TPC

The First International Conference on Complex Sciences ([COMPLEX'2009](#)), **Member** of TPC

The Fifth Advanced International Conference on Telecommunications ([AICT 2009](#)), **Member** of TPC

The 2009 International Conference on Grid Computing and Applications ([GCA'09](#)), Part of WORLDCOMP'09, **Member of TPC**

The 2009 International Conference on Internet Computing ([ICOMP'09](#)), Part of WORLDCOMP'09, **Member of TPC**

The 2009 International Conference on Modeling, Simulation and Visualization Methods ([MSV'09](#)), Part of WORLDCOMP'09, **Member of TPC**

The 2009 International Conference on Software Engineering Research and Practice ([SERP'09](#)), Part of WORLDCOMP'09, **Member of TPC**

The 2009 International Conference on Semantic Web and Web Services ([SWWS'09](#)), Part of WORLDCOMP'09, **Member of TPC**

The 4th International Multi-Conference on Computing in the Global Information Technology ([ICCGI 2009](#)), **Member** of TPC

The Eighth International Conference on Networks ([ICN 2009](#)), **Member** of TPC

First World Summit on the Knowledge Society 2009 ([WSKS 2009](#)), **Member** of TPC

The Fifth International Conference on Networking and Services ([ICNS 2009](#)), **Member** of TPC

The 2008 International Conference on Internet Computing ([ICOMP'08](#)), Part of WORLDCOMP'08, **Member** of TPC

The 2008 International Conference on Semantic Web and Web Services ([SWWS'08](#)), Part of WORLDCOMP'08, **Member** of TPC

17th International Conference on Computer Communications and Networks ([ICCCN '08](#)), **Member** of TPC

The Third International Multi-Conference on Computing in the Global Information Technology ([ICCGI 2008](#)), **Member** of TPC

The Fourth Advanced International Conference on Telecommunications ([AICT 2008](#)), **Member** of TPC

International Conference on Communication Theory, Reliability, and Quality of Service ([CTRQ 2008](#)), **Member** of TPC

The 33rd IEEE Conference on Local Computer Networks ([LCN 2008](#)), **Member** of TPC

First International Workshop on MOdelling and DEsign of wireless mesh NETworks ([MODENETs 2008](#)), **Member** of TPC

International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering ([CISSE 08](#)), **Reviewer**

International Multi-Conference on Engineering and Technological Innovation ([IMETI 2009](#)), **Reviewer**

International Multi-Conference on Engineering and Technological Innovation ([IMETI 2008](#)), **Reviewer**

First World Summit on the Knowledge Society 2008 ([WSKS 2008](#)), **Member** of TPC

IEEE Global Telecommunications Conference ([IEEE GLOBECOM 2006](#)), **Reviewer**

The Journal of Supercomputing (Springer), **Reviewer**

Elsevier Computer Communications – special issues (2007), **Reviewer**

♣ Obtaining grants

I believe that I would be able to manage external funds through my research projects.

♣ Supervision skills

I have got extensive experience of undergraduate and postgraduate supervision in the areas of business and computing. One of my research interests involves coupling between these two areas (business and computing).

Undergraduate supervision: over 300 students so far

Postgraduate supervision: over 200 students

PhD supervision: I am pretty confident that I will be able to supervise PhD students.

♣ Research skills

My research interests include [Cyber security](#), [Information Security](#), Distributed Database & Blockchain, [E-Business](#), Information System Design and Development, ICT-based Pedagogy, ICT Project management, Software Engineering, Statistical Computing, Cognitive Computing, Networking: [Network Traffic Engineering, Quality of Service (QoS) Control, Traffic modelling & simulation], Internet of Things (IoT), Machine & Deep Learning, Fractals and Nanotechnology, [Long-range dependence phenomena](#) (which appear in network traffic, stock markets, oil price, cardiology, economics, finance, hydrology, climate, weather etc.).

Special Research Interests on Business development:

Intelligent systems for business management

Mathematical modelling and data analysis

Modelling Techniques and time series analysis in Business

E-Business and Securing Information system

E-business & E-commerce

Business Decision making

Web framework/design for business development

Management Information system for Integrated & distributed business development

Enterprise Resource Planning (ERP) for Business Information System

Decision Support System (DSS) for Business

Quantitative development for Business

Long-range dependence phenomena (e.g. stock market, finance, Economics, network traffic etc.)

Reference: <http://www.long-memory.com/returns/>

♣ Academic Curriculum development

I have designed TEN undergraduate programmes (e.g., BBA, BSc and BA) in the field of Business, Computing, Communications & Software Engineering, Shipbuilding (Naval Architecture) & Marine Engineering, and English studies. I have also designed THREE postgraduate programmes (MBA, MA & MSc) in the area of Business, Computing, Communications & Software Engineering, and English studies.

♣ Administrative and management experience

I am capable of assisting the administration and management of education, and training programmes which may include responsibilities relating to publicity, public relations, marketing, recruitment and admissions of students.

♣ Professional Bodies

Member, Institute of Electrical and Electronics Engineering (**IEEE**)

Member, Association for Computing Machinery (**ACM**)

Member, World Academy of Science, Engineering and Technology (**WASET**)

Member, International Association of Engineers (**IAENG**)

Member, Centre for Applied Internet Research (**CAIR**), NEWI, UK

Fellow, Institution of Engineers Bangladesh (**IEB**), Bangladesh.

♣ **Business & Consulting activities**

Chairman and Project Manager, GreenTech Projects Bangladesh (Since 2010 to present)

Project management activities:

- Research, Training and development: e-Learning, Web and Systems Development.
- To the project team members & personnel (over SKYPE) - providing guidelines or direction of relevant management jobs to be done on a daily basis.
- Preparing performance assessment report on a weekly basis.

Director

Global Academy of Professionals (GAP) UK, <http://gap.lasie.uk/>

Centre for Applied Research in Software & IT (CARSIT), Dhaka, Bangladesh, <http://carsit.lasie.uk/>

System Corner UK (<http://systemcorner.com/>)

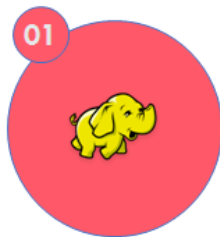
Consulting activities include:

- Education: E-learning and curriculum development, establishing collaborative partnership between UK/European and Bangladeshi institutions.
- IT project management: Web and software systems development & Testing.
- Training: Skilled development programme on professional IT, Computing & Cyber security courses.

♣ **Interests/Hobbies**

Badminton, Football, Cricket, Music, Movie, History, Travelling.

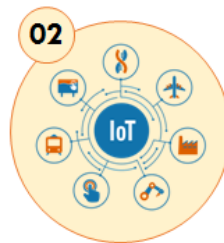
Present Research Activities with my Research Team at CARSIT (<http://carsit.lasie.uk/>)



BIG DATA

Linkage -

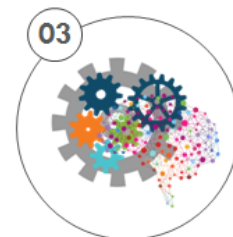
Data Science, Data Mining, AI, Machine Learning, Cloud Computing etc.



IOT

Linkage -

Big Data, Cognitive Computing, AI, Data Mining, Networking Technologies etc.



COGNITIVE COMPUTING

Linkage -

Self-learning, human senses processing, IoT, Data Mining, AI, Deep Learning, pattern recognition, Machine Learning etc.



E-BUSINESS

Linkage -

E-Commerce, Business Intelligence, Data Warehousing, ERP System etc.



IS DESIGN & DEVELOPMENT

Linkage -

Software Engineering, Distributed DBMS, Distributed Computing etc.



ICT PEDAGOGY

Linkage -

Role of ICT in Education – Teaching, Learning & Training

Ongoing Doctor of Business Administration (DBA) Supervisions: (Degree would be awarded by IPE Management School Paris & PPA, France)

TWO students in Bangladesh (Tentative completion Date: September 2020)

Research area: ICT-based Pedagogy

Research area: Mathematics Anxiety

FIVE more students in UK and Bangladesh (Under process) ← **DBA or PhD programme**

Research areas: Cyber Security

E-business & Business Intelligence

Machine Learning & IoT

Distributed DBMS and Blockchain

Intelligent System and Cognitive Computing

* For DBA info, please visit - <http://www.ipe-paris.fr/dba-in-bangladesh/>

SPECIAL TARGET: by 2020

Book Publication [Springer / Elsevier / Routledge (Taylor & Francis) / Sage]

- 1 Systems Development
- 2 ICT-based Pedagogy & Project Management
- 3 Mathematics Anxiety

Expected publication of Journal Articles in 2020: 12 ~ 15

* Apart from Teaching and management role, I could contribute to the following:

- 1  Promoting University and flourishing Computer Science & Engineering (CSE) department
- 2  Website redesign: eye-catching one << presenting University at a Global scale (Web Presence)
- 3  Working on promotion of ranking of the Institution: top 10- 25 << Target !
- 4  R & D << Team development
- 5  Research Centre << establishment
- 6  Hosting International Conference
- 7  Promoting University Journal and Indexing with renowned servers
- 8  Collaboration with British, EU Universities
- 9  Programme/Course development & validation - Diploma/ Adv-Diploma/Degree with NCC or Edexcel or European University
- 10  OBE (Outcome Based Education) and Training/CPD for TEACHERS or Faculty members
- 11  System Development << Automation
- 12  ICT-based Pedagogy development << Edu system at Primary, 2ndary & Tertiary levels
- 13  Total Quality Assurance & Monitoring System (TQAMS) for Education system
- 14  English & Technical communications development
- 15  Cybersecurity for Education & Healthcare systems
- 16  Data Science for Education system

♣ References

Available upon request.

Yours sincerely,

Professor Dr. Karim Mohammed Rezaul