Detailed Curriculum Vitae

Name:

Dr. Md Abdur Rahman

Citizenship:

Canadian

Current Affiliations:

Associate Professor, Cyber Security and Forensic Computing Department
ISO 27001:2022 Lead Auditor
Certified Information Security Manager (CISM)
Certified Information Systems Auditor (CISA)
Chairman, Industrial Collaboration and Relations Committee, College of Computer
    and Cyber Sciences, University of Prince Mugrin
Member, Higher Committee for Scientific Research and Graduate Studies
Member, Scientific Council
General Supervisor of the Scientific Research and Postgraduate Studies Department
    (المشرف العام على إدارة البحث العلمي والدراسات العليا)
Member, Dr. Hussein Elsayyed Center for Scientific Research and Studies
Director, Advanced Media Laboratory
Director, Smart City Research Lab
Associate Fellow, Institute of Industrial Revolution 4.0, National University Malaysia
    (UKM), Malaysia
External Honorary Fellow, CODA Research Centre, King's College London, UK
Founder, Science and Technology Unit (STU)
University of Prince Mugrin, Madinah Al Munawwarah
Contact: +966561061730
Email: mrahm080@uottawa.ca, m.arahman@upm.edu.sa

Education

- Ph.D. in Electrical and Computer Engineering, University of Ottawa, ON, Canada, 2010
- M.A.Sc. in Electrical and Computer Engineering, University of Ottawa, ON, Canada, 2005

PhD Students Supervised

- Finished – 3

Academic and Administrative experience

- *Acting Head of the Cyber Security and Forensic Computing Department*, *College of Computer and Cyber Sciences, University of Prince Mugrin, Madinah Al Munawwarah, KSA, (May. 2021 – August 2021)*
- *Head of the Cyber Security and Forensic Computing Department*, *College of Computer and Cyber Sciences, University of Prince Mugrin, Madinah Al Munawwarah, KSA, (August. 2016 – 1st of September 2019)*
- *Founder Director and Head, Science and Technology Unit (STU),* *University of Prince Mugrin (November 2017 - present)*
- *Director, Department of Scientific Research and Graduate Studies,* *University of Prince Mugrin (November 2019 – December 2020)*
- *Member, Scientific Council,* *University of Prince Mugrin (November 2019 - present)*
- *Assistant Professor*, **Computer Science Dept.**, **Umm Al Qura University**, KSA, (Feb. 2011-Jun. 2016)
- *Reviewing Existing Study Plans* of all the major programs and find issues, suggest solutions to with respect to the national and international benchmarks. I was the chair of the Committee.
- *I have helped designing Handbook for Forensic Computing and Cyber Security Program*, Software Engineering Program and Computer Science Program.
- *I have worked with Cardiff University Reviewer to finalize the Forensic Computing and Cyber Security Program*, got it approved by Ministry of Education of KSA.
- I have worked with King Saud University Reviewer to finalize the Software Engineering Program, which is under review by Ministry of Education of KSA.
- I have designed Minor programs in Cyber Security and Forensic Computing
- I have Designed Summer Training Program Handbook and rubrics for UPM.
- I have designed the Graduation Project handbook, Supervisory Committee and Coordination Committee Handbook and rubrics.
- I am the Coordinator for ABET, NCAAA, BCS and NSA-DHS accreditation process for our College Programs.
- I help in designing Mission, Vision, Strategic Objectives, KPIs, Vision Realization Programs, Mapping KPIs with Vision 2030, Afaq and NCAAA defined frameworks.
- I help in designing Learning Outcomes, Student Outcomes, and Program Educational Outcomes.
- I am the coordinator for the College External Advisory Board.
- I help in benchmarking course materials, books, course syllabus and Lab manuals.
- Head, Graduation Project Co-ordination Committee, College of Computer and Information Systems, Umm Al Qura University, KSA, (2011-Jun. 2016)
- Coordinator, Undergraduate Final Year Project, Computer Science Dept., Umm Al Qura University, KSA, (2011-Jun. 2016)
- Course Coordinator, Undergraduate Computer Science Course Curriculum, Computer Science Dept., Umm Al Qura University, KSA, (2011-Jun. 2016)
- Research Associate, Learning and Collaborative Technologies, Institute for Information Technology, National Research Council (NRC), Canada, (2008-2010)
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Non-academic experience

Network Administrator, Multimedia Communications Research Laboratory, University of Ottawa, Canada, (2004-2010).

Delivered Products

1. I have delivered the first AI-powered smart building management system to a commercial Building in the male campus at Madinah Al Munawwarah.
2. I have delivered the first AI-powered smart mosque management system to a newly built mosque in Madinah Al Munawwarah.
3. I have delivered and deployed the AI-powered automated back-office management system to the Consulate Generate of the People's Republic of Bangladesh at Jeddah.

Current membership in professional organizations

- Senior Member, IEEE
- Member, ACM
- Area Expert in Explainable AI in IEEE ComSoc

Awarded Research Proposals, Funding Details

- Our UPM team is the winner of the EON Reality Inc. 15M USD grant.

- Winner of the KAUST grand challenge **1M SAR** "Ideas and Solutions for Hajj and Umrah 2020" in the category of Crowd Management.
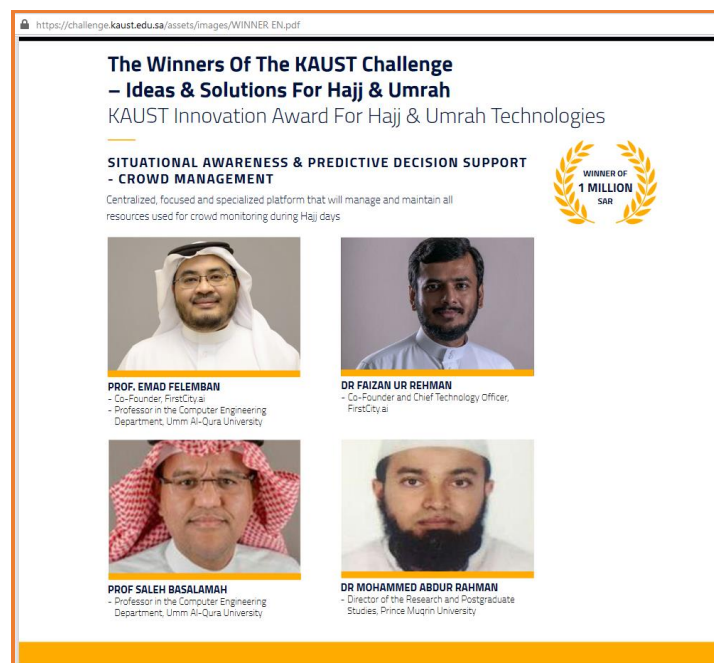
- Received a grant worth 500K SAR from **KACST** with the title "**A Multi-Modal Point-of-Care Deep Learning-based AI Framework for COVID-19 Rapid Diagnosis**" in May 2020. The project is for 6 months starting from May 2020. Our Project ID is **5-20-01-127-0001**

برنامج المسار السريع لدعم البحوث العلمية لمرض فيروس كورونا المستجد COVID-19

50 مقترح بحثي تمت الموافقة على دعمها ضمن برنامج المسار السريع

7 مجالات علمية:

22 جهة وطنية داخلة على الدعم

شارك

Granted research proposals

5-20-01-675-0002	5-20-01-001-0042	5-20-01-003-0003	5-20-01-021-0013
5-20-01-009-0002	5-20-01-002-0005	5-20-01-023-0009	5-20-01-009-0080
5-20-01-021-0005	5-20-01-004-0022	5-20-01-004-0014	5-20-01-007-0033
5-20-01-007-0010	5-20-01-532-0001	5-20-01-009-0092	5-20-01-002-0004
5-20-01-007-0002	5-20-01-001-0058	5-20-01-127-0001	5-20-01-010-0009
5-20-01-023-0004	5-20-01-002-0008	5-20-01-006-0021	5-20-01-009-0026
5-20-01-016-0002	5-20-01-031-0012	5-20-01-047-0001	5-20-01-003-0002
5-20-01-009-0067	5-20-01-002-0001	5-20-01-675-0004	5-20-01-000-0001
5-20-01-007-0028	5-20-01-070-0016	5-20-01-558-0005	5-20-01-009-0074
5-20-01-009-0016	5-20-01-558-0002	5-20-01-070-0017	5-20-01-500-0004
5-20-01-070-0014	5-20-01-007-0006	5-20-01-070-0007	5-20-01-007-0021
5-20-01-536-0003	5-20-01-502-0009	5-20-01-105-0011	5-20-01-004-0005
5-20-01-007-0001	5-20-01-031-0009		

- Received a grant worth **7.5 M SAR** from KSA RDO with title "**An IoT Enabled, Blockchain-Based Secure Framework to Provide Context-Aware, Spatio-Temporal Early Warning Services for a Hajj Mass Crowd**" in **October** 2018 [(University of Oxford and King's College London)].

- Received a grant from UK British Council in 2018 with the title "Blockchain for Hajj" with 50,000 GBP in March 2018 [*Role* – Principal Investigator
- Received a grant from KACST with the title "Next Generation Hajj: A smart City Perspective", worth 2 million SAR, in October 2015 [*Role*- Principal Investigator].
- Received a grant from KACST with the title "A System for Querying, Analyzing, and Visualizing Real-Time Social Network Data", worth 2 million SAR, in August 2014 [*Role*- Principal Investigator].
- Received a grant from KACST with the title "Query Processing and Optimization in Spatiotemporal Database Systems", worth 2 million SAR, in March 2011 [*Role*- Principal Investigator].
- Received a grant from KACST with the title "Open-Source Context-Aware E-Learning Framework for Students with Moderate Learning and Intellectual Disabilities", worth 2 million SAR, in March 2011 [*Role*- Principal Investigator].
- Received a grant from KACST with the title "HajjMemo: Pilgrims-Sourced Data Collection for Documentation and Continuous Improvement of Hajj & Umrah Services", worth 2 million SAR, in March 2011 [*Role*- Principal Investigator].

- Got the **50K SAR** Best UPM Research Award from UPM for the year **2021**.

- Got **Best UPM Researcher Award with 70K SAR as prize money from UPM** for the year **2020**.

https://twitter.com/UPMMadinah/status/1318958323585122307

- Got **Best Researcher Award from UPM** for the year **2019 from HRH, the Prince of Madinah**.

- Got **Best Researcher Award from UPM** for the year **2018** with a prize of **33K SAR**.
- My PhD thesis was nominated as the "BEST THESIS" from the School of Information Technology and Engineering (SITE) of University of Ottawa [https://ruor.uottawa.ca/bitstream/10393/30134/1/NR74248.PDF].

- My Master's thesis was nominated as the "BEST THESIS" from the School of Information Technology and Engineering (SITE) of University of Ottawa [https://ruor.uottawa.ca/bitstream/10393/27016/1/MR11388.PDF].
- National Research Council (NRC) of Canada Research Assistantship from Summer 2008 to Summer 2010, value: $30,000/year
- Ontario Graduate Scholarship (OGS) for the session 2009-2010, value: $15,000
- University of Ottawa Excellence Scholarship from Fall 2009 to Fall 2010, value: $6,500
- NSERC PGS-D2 scholarship from Fall 2007 to Fall 2009, value: $42,000
- University of Ottawa Excellence Scholarship from Fall 2007 to Fall 2009, value: $26,000
- Ontario Graduate Scholarship (OGS) for the session 2008-2009, value: $15,000 (Declined to continue NSERC)
- Ontario Graduate Scholarship (OGS) for the session 2007-2008, value: $15,000 (Tenured for only 4 months and then declined to accept NSERC PGS-D2).
- Ontario Graduate Scholarship (OGS) for the session 2006-2007, value: $15,000
- University of Ottawa Excellence Scholarship for the session 2006-2007, value: $6,500
- Admission Scholarship for PhD study awarded by the Faculty of Graduate and Postdoctoral Studies (FGPS) of University of Ottawa from Fall 2005 to Fall 2009, value: $26,000
- Admission Scholarship during master's study period awarded by the FGPS of University of Ottawa, value: $6,500

List of the most important publications

https://www.researchgate.net/profile/Rahman
https://publons.com/researcher/3276094/abdur-rahman/
https://scholar.google.com/citations?view_op=list_works&hl=en&user=yV-SaYcAAAAJ

Honors

- My publications at the ACM is the top most among all the UQU researchers. For details please visit http://dl.acm.org/inst_page.cfm?id=60006848&CFID=558519548&CFTOKEN=51379090 or http://dl.acm.org/inst_page.cfm?id=60006848
- I am among the top 2% researchers among the world for the year 2022 by both Stanford + Elsevier list (https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/4) and the adscientificindex list (https://www.adscientificindex.com/?s=200&tit=Engineering+%26+Technology&con=Arab%20League&country_code=sa) .

AD Scientific Index - Arab League World Scientist Rankings - 2023

#	i	i	i	i	Name i	Country	University	Subject	H INDEX			i10 INDEX			CITATION		
Arab League	University	Country	Region	World					Total	Last 5 year	Last 5 year/total	Total	Last 5 year	Last 5 year/total	Total	Last 5 year	Last 5 year/total
47	1	730	32015	212705	Mohamed Abdur Rahman	Saudi Arabia	University of Prince Mugrin	Engineering & Technology / Computer Science Multimedia Security | Internet of Medical Things | Smart City | Deep Learning at the Edge |	28	22	0.786	62	43	0.694	2728	2040	0.748

A145923   fx   Rahman, Md Abdur

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
145912	Gordon, Adam Lee	University of Nottingham Medical School	gbr	148	2007	2022	170,351	461	10	4.1995	3	2	37	81	70	146	2.5
145913	Aberer, Karl	Ecole Polytechnique Fédérale de Lausanne	che	407	1990	2022	170,353	479	11	5.4333	13	1	73	24	330	336	2.5
145914	Csáki, Csaba	Cornell University College of Engineering	usa	149	1994	2022	170,356	270	7	4.7447	6	2	116	176	117	178	2.5
145915	Sukocheva, Olga A.	Flinders University	aus	46	1996	2022	170,358	156	7	3.7687	2	16	25	103	27	123	2.5
145916	Bunescu, Razvan	The University of North Carolina at Charlotte	usa	78	2001	2022	170,359	377	10	5.6929	3	0	16	134	38	180	2.5
145917	Saleur, Hubert	University of Southern California	usa	229	1985	2022	170,360	287	6	4.5833	22	15	41	28	183	240	2.5
145918	Cokoja, Mirza	TUM Zentralforschungsinstitut für Katalyse	deu	129	2003	2022	170,361	519	10	4.9869	0	0	13	151	19	161	2.5
145919	Hoffmann, Thomas K.	Universitätsklinikum Ulm	deu	380	1996	2022	170,367	1,049	14	4.9509	11	0	50	48	117	127	2.5
145920	Wu, Bo	South China University of Technology	chn	217	2001	2022	170,368	385	9	5.2500	0	0	121	141	167	256	2.5
145921	Klaassen, Zachary	Medical College of Georgia	usa	231	2005	2022	170,371	560	12	4.9991	4	0	62	80	94	191	2.5
145922	Ahmadi, Mohsen	Urmia University of Technology	irn	26	2011	2022	170,372	327	7	3.6500	1	2	12	215	14	221	2.5
145923	Rahman, Md Abdur	University of Prince Mugrin	sau	87	2004	2022	170,378	293	9	3.8615	8	1	49	193	51	225	2.5
145924	Kazama, Junichiro J.	Fukushima Medical University	jpn	219	1993	2022	170,385	410	9	4.2411	13	12	53	47	77	65	2.5
145925	Yáñez-Ruiz, D. R.	CSIC - Estación Experimental del Zaidín (EEZ)	esp	90	2003	2022	170,387	562	13	4.9164	0	0	13	70	41	190	2.5
145926	MacRae, Gregory A.	University of Canterbury	nzl	174	1994	2022	170,388	431	11	5.7833	0	0	20	79	70	212	2.5
145927	Andrews, Jeff	Vanderbilt University	usa	24	2008	2021	170,389	444	7	1.8521	10	7	13	207	15	227	2.5
145928	Kim, Jin Woong	Sungkyunkwan University	kor	219	1996	2022	170,392	546	12	5.7516	0	0	35	55	110	204	2.5

- I am among the top 2% researchers among the world for the year 2020. https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3

50438	Willatzen, Morten	Chinese Academy of Sciences	chn		258	1991	2021	185,947	432	10	6.8468	15	3	68	99	155	168	2.5963
50439	Franzetti, Andrea	Università degli Studi di Milano	ita		94	2003	2021	185,948	816	14	5.5858	0	0	19	129	31	263	2.5963
50440	Rahman, Md Abdur	University of Prince Mugrin	sau		119	2004	2021	185,949	438	10	4.9397	8	2	52	204	55	237	2.5963
50441	Bartlett, Neil	Princeton University	usa		128	1957	2007	185,954	238	7	4.1540	7	39	44	65	123	233	2.5963
50442	Kim, Hyunseok	Sogang University	kor		31	1996	2020	185,958	241	8	5.3333	5	25	13	45	27	233	2.5963
50443	Dolatshahi-Pirouz, Alirez	Danmarks Tekniske Universitet	dnk		70	2008	2021	185,959	864	17	4.9732	1	0	15	75	29	374	2.5963
50444	Goltsman, G.	Moscow Pedagogical State Univ	rus		462	1972	2021	185,960	916	13	4.8472	7	0	31	145	237	343	2.5962

- I have been cited by Thompson Reuters ISI Web of Science among the **top 40 researchers** having the **first authorship** with the most cited among top tiers journals within the whole **Kingdom of Saudi Arabia** in the year **2020** as shown below.

عدد البحوث المنشورة	الجامعة والتخصص	اسم الجامعة	اسم الباحث	#
9	King Saud Univ, Coll Comp & Informat Sci, Dept Software Engn	جامعة الملك سعود	Hossain, M. Shamim	1
6	King Abdullah Univ Sci & Technol, Mat Sci & Engn,	جامعة الملك عبد الله للعلوم والتكنولوجيا	Xia, Chuan	2
5	Imam Abdulrahman Bin Faisal Univ, Coll Sci, Dept Phys	جامعة الامام عبد الرحمن بن فيصل	Almessiere, M. A.	3
5	King Abdullah Univ Sci & Technol, KAUST, SPERC, Div Phys Sci & Engn	جامعة الملك عبد الله للعلوم والتكنولوجيا	Bootharaju, Megalamane S.	4
5	King Fahd Univ Petr & Minerals, Ctr Excellence Sci Res Collaborat MIT, KFUPM	جامعة الملك فهد للبترول والمعدن	Qureshi, Bilal Ahmed	5
5	King Fahd Univ Petr & Minerals, Dept Mech Engn	جامعة الملك عبد الله للعلوم والتكنولوجيا	Qasem, Naef A. A.	6
4	Alfaisal Univ, Dept Chem, Al Zahrawi St,Al Takhassusi Rd	جامعة الفيصل	Eissa, Shimaa	7
4	King Abdulaziz Univ, Dept Chem	جامعة الملك عبد العزيز	Kamal, Tahseen	8
4	King Abdulaziz Univ, Dept Phys, Fac Sci	جامعة الملك عبد العزيز	Al-Hadeethi, Yas	9
4	King Abdullah Univ Sci & Technol, Biol & Environm Sci & Engn	جامعة الملك عبد الله للعلوم والتكنولوجيا	Kim, DooLi	10
4	King Abdullah Univ Sci & Technol, Phys Sci & Engn Div,	جامعة الملك عبد الله للعلوم والتكنولوجيا	Ma, Xiaohua	11
4	King Abdullah Univ Sci & Technol, Phys Sci & Engn Div, Mat Sci & Engn	جامعة الملك عبد الله للعلوم والتكنولوجيا	Liang, Hanfeng	12
4	King Abdulllah Univ Sci & Technol, Water Desalinat & Reuse Ctr	جامعة الملك عبد الله للعلوم والتكنولوجيا	Fortunato, Luca	13
4	King Fahd Univ Petr & Minerals, Dept Mech Engn	جامعة الملك فهد للبترول والمعدن	Ahmed, M. A.	14
4	King Fahd Univ Petr & Minerals, TIC CCS	جامعة الملك فهد للبترول والمعدن	Nemitallah, Medhat A.	15
3	King Abdullah Univ Sci & Technol KAUST, Adv Membranes & Porous Mat Ctr	جامعة الملك عبد الله للعلوم والتكنولوجيا	Akhtar, Faheem Hassan	16
3	Imam Abdulrahman Bin Faisal Univ, Coll Clin Pharm	جامعة الامام عبد الرحمن بن فيصل	Ahmad, Rizwan	17
3	King Abdullah Univ Sci & Technol, KAUST, Catalysis Ctr	جامعة الملك عبد الله للعلوم والتكنولوجيا	Huang, Kuo-Wei	18
3	King Fahd Univ Petr & Minerals, KFUPM, Res Inst, CoRERE	جامعة الملك فهد للبترول والمعدن	Al-Sulaiman, Fahad A.	19
3	King Abdullah Univ Sci & Technol KAUST, Adv Membranes & Porous Mat Ctr	جامعة الملك عبد الله للعلوم والتكنولوجيا	Shevate, Rahul	20
3	King Abdullah Univ Sci & Technol KAUST, KAUST Catalysis Ctr KCC	جامعة الملك عبد الله للعلوم والتكنولوجيا	Falivene, Laura	21
3	King Abdullah Univ Sci & Technol, Adv Membranes & Porous Mat Ct	جامعة الملك عبد الله للعلوم والتكنولوجيا	Huang, Tiefan	22
3	King Abdullah Univ Sci & Technol, Clean Combust Res Ctr	جامعة الملك عبد الله للعلوم والتكنولوجيا	An, Yanzhao	23
3	King Abdullah Univ Sci & Technol, COHMAS Lab, Div Phys Sci & Engn,	جامعة الملك عبد الله للعلوم والتكنولوجيا	Tai, Yanlong	24
3	King Abdullah Univ Sci & Technol, Comp Elect & Math Sci & Engn Div	جامعة الملك عبد الله للعلوم والتكنولوجيا	Ben Issaid, Chaouki	25
3	King Abdullah Univ Sci & Technol, Comp Elect & Math Sci & Engn Div	جامعة الملك عبد الله للعلوم والتكنولوجيا	Saeed, Nasir	26
3	King Abdullah Univ Sci & Technol, Comp Elect & Math Sci & Engn Div	جامعة الملك عبد الله للعلوم والتكنولوجيا	Ben Rached, Nadhir	27
3	King Abdullah Univ Sci & Technol, KAUST Catalysis Ctr	جامعة الملك عبد الله للعلوم والتكنولوجيا	Takanabe, Kazuhiro	28
3	King Abdullah Univ Sci & Technol, Mat Sci & Engn	جامعة الملك عبد الله للعلوم والتكنولوجيا	Wang, Zhenwei	29
3	King Abdullah Univ Sci & Technol, Phys Sci & Engn Div,	جامعة الملك عبد الله للعلوم والتكنولوجيا	Ladelta, Viko	30
3	King Abdullah Univ Sci & Technol, Phys Sci & Engn Div, Mat Sci & Engn	جامعة الملك عبد الله للعلوم والتكنولوجيا	Ming, Fangwang	31
3	King Abdullah Univ Sci & Technol, Phys Sci & Engn Div, Mat Sci & Engn	جامعة الملك عبد الله للعلوم والتكنولوجيا	Zhang, Fan	32
3	King Fahd Univ Petr & Minerals, Dept Chem	جامعة الملك فهد للبترول والمعدن	Ali, Shaikh A.	33
3	King Fahd Univ Petr & Minerals, Dept Chem	جامعة الملك فهد للبترول والمعدن	Ganiyu, Saheed A.	34
3	King Fahd Univ Petr & Minerals, Dept Mech Engn	جامعة الملك فهد للبترول والمعدن	Lawal, Dahiru U.	35
3	King Fahd Univ Petr & Minerals, Dept Mech Engn	جامعة الملك فهد للبترول والمعدن	Yilbas, Bekir Sami	36
3	King Fahd Univ Petr & Minerals, Mech Engn Dept	جامعة الملك فهد للبترول والمعدن	Ben-Mansour, Rached	37
3	King Fahd Univ Petr & Minerals, Mech Engn Dept	جامعة الملك فهد للبترول والمعدن	Khalifa, Atia E.	38
3	King Fahd Univ Petr & Minerals, Mech Engn Dept, KFUPM	جامعة الملك فهد للبترول والمعدن	Jamil, Muhammad Ahmad	39
3	Prince Mugrin Bin Abdulaziz Univ, Dept Comp Sci,	جامعة الأمير مقرن بن عبد العزيز	Rahman, Md. Abdur	40

- For the year 2021, I have been ranked 1st by adscientificindex among the **top researchers** within the **UPM,** 572 among the **KSA,** 25766 among the **middle east and** 161528 among the **world** researchers as shown below.

https://www.adscientificindex.com/?university=University+of+Prince+Mugrin

World | Country   Africa   Asia   Europe   North America   Oceania   Arab Leageu   EECA   BRICS   Latin America   COMESA

Agriculture & Forestry   Arts, Design and Architecture   Business & Management   Economics & Econometrics   Education   Engineering & Technology   History, Philosophy, Theology   Law / Law and Legal Studies
Medical and Health Sciences   Natural Sciences   Social Sciences   Others

Name or Country or University or Subject or Interests   **Q Search**

Total 4 scientist, 1 country, 1 university   ☐ List without CERN etc (In Progress)

| University | Country | Region | World | AD Scientific Index - Scientist Rankings - 2022 | | | | H INDEX | | | i10 INDEX | | | CITATION | | |
				Name	Country	University	Subject	Total	Last 5 year	Last 5 year / total	Total	Last 5 year	Last 5 year / total	Total	Last 5 year	Last 5 year / total
1	572	25766	161528	Mohamed Abdur Rahman	Saudi Arabia	University of Prince Mugrin	Engineering & Technology / Computer Science Multimedia Security|Internet of Medical Things|Smart City|Deep Learning at the Edge|	28	20	0.714	57	42	0.737	2162	1587	0.734
2	1157	48381	270572	Ibrahim Mahamid	Saudi Arabia	University of Prince Mugrin	Engineering & Technology / Civil Engineering Construction Engineering and Surveying|	20	20	1.000	29	29	1.000	1492	1270	0.851
3	2564	94225	446432	Omar Tayan	Saudi Arabia	University of Prince Mugrin	Engineering & Technology / Computer Science Network Security & Authentication|Intelligent Transport Systems|Crowd Modelling|Computer Networking|Quality Assurance &|	13	13	1.000	20	17	0.850	505	425	0.842
4	3923	124198	523500	Sanaa Askool	Saudi Arabia	University of Prince Mugrin	ISPrinceMugrin Social media|Fintech|cloud computing|information systems|innovation|	7	7	1.000	5	4	0.800	336	219	0.652

Patent Already Granted

Mohamed Abdur Rahman, Elham Mahjoob Hassanain, Salaheldin Hassanain, *A Method and System for Dyslexia Screening and Management*, **USPTO 15/237591.**

https://patents.google.com/patent/US9672618B1/en

٧٩

الدكتور محمد عبد الرحمن
أستاذ مساعد
كلية الحاسب الآلي ونظم المعلومات

الاختراع :
خوارزمية زمانية مكانية لاستشعار تنظيم الحدود
للمعتمرين والحجاج.

المشاركون في براءة الاختراع

فيضان الرحمن سهيل الرحمن   الدكتور صالح محمد باساهية

حفل ١٠٠ براءة اختراع
بمناسبة تسجيل الجامعة لعدد ١٠٠ اختراع خلال عامين

١٠٠
براءة إختراع
خلال عامين

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٨٨

الدكتور محمد عبد الرحمن
أستاذ مساعد
كلية الحاسب الآلي ونظم المعلومات

الاختراع :
بيئة علاجية غير ملتصقة لألعاب نظم المعلومات الجغرافية
متعددة الوسائط الجادة لإتاحة مجالات للحركة لكامل
مفاصل الجسد باستخدام علم الحركيات: الكينماتيكا.

المشاركون في براءة الاختراع

فيضان الرحمن سهيل الرحمن   الدكتور صالح محمد باساهية

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٩٦

الدكتور محمد عبد الرحمن
أستاذ مساعد
كلية الحاسب الآلي ونظم المعلومات

الاختراع :
طريقة استشعار غير ملاصق للجسد مبني على الويب يتتبع
ويميز ويدي للعيان مباشرة بيانات العلاج اليدوي الحركي
لمرض الهيموبليجيا.

المشاركون في براءة الاختراع

الدكتور صالح محمد باساهية

حفل ١٠٠ براءة اختراع
بمناسبة تسجيل الجامعة لعدد ١٠٠ اختراع خلال عامين

١٠٠
براءة إختراع
خلال عامين

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Patents Pending

P1. *A web-based non-invasive way of detecting, tracking, recognizing and 3d visualizing live kinematic hand therapy data of hemiplegic patient*

P2. *System and method for detecting and visualizing live kinetic and kinematic data for the musculoskeletal system*

P3. *A non-invasive HealthGIS multimedia serious game therapy environment for providing ranges for motion of full-body joints to hemiplegic patient through forward and inverse kinematics.*

P4. *Spatio-temporal algorithm to detect boundary regulation for pilgrims during hajj.*

P5. *A framework to maintain pilgrim social network between pilgrims and their family member and friends*

P6. *HajjNUmrah: a cloud-based context-aware hajj and Umrah management system based on crowd sourced data*

P7. *Vehicle-connect a smart spatio-temporal cloud-based vehicle management system for a very large and dynamic crowd*

P8. *A gesture controlled mobile based camera-less smart home management solution for providing assisted living services to physically challenged individuals with low mobility*

P9. *Spatio-temporal augmented reality-based system to perform rituals of hajj and Umrah in proper and easy way*

P10. *Tracking friends and vehicles spatio-temporal status using augmented reality in a very large crowd*

P11. *An electromyography (EMG) signal and augmented reality based occupational hand therapy framework for people with hemiplegia*

P12. *HajjGeoCaching - a real-life massive spatio-temporal online game for pilgrims*
P13. *Immersive telepresence as occupational therapy for hemiplegic patients through VR technology*

P14. *Mapping virtual 3d human model with the joint-motions of a disabled: a web-based 3d human model with natural user interface-based interaction capability for designing physical therapy*

P15. *Gestpass: a multimodal gesture-based login system for providing assisted living services to physically challenged individuals*

P16. *A serious game generator for disability persons based on patient disability level and/or therapist recommendation using non-invasive motion sensors*

P17. *Therapist-Assistant: Virtual Reality based Live Augmented Skeletal Therapy Management System*

P18. *BCI (Brain Computer Interface) based VR (Virtual Reality) Therapy System for Paralyzed patients to recover muscle functions*

P19. *A Multi-Sensory Multimedia-based Cyber-Physical Environment for Fully Immersive Navigation of Real and Virtual Worlds*

P20. *Autobook: A Social Network for the Vehicles*

P21. *Should you go for Hajj this year – A Smart Recommendation System*

P22. *Smart On-Road Sign Boards' Network in the Context of Smart City*
P23. *Context Aware Dynamic Road Congestion Notification and Dynamic Route Suggestions in a Very Large Crowd in the context of a Smart City*

P24. *HoloDesk: Augmented Holographic Real-time Hajj & Umrah Entities' Management System*

P25. *Physical Therapy with Mixed Reality*

P26. *Holographic visualization of Hajj Scenario*

P27. *Crowd based Spatio-temporally aware Visitor Information Guide for Sightseeing*

P28. *Spatio-temporal Context-Aware Door, Floor and Route Recommender for Performing Tawaaf & Sai and Stoning Ritual at Jamarat for Males, Females and individual with disability*

ACTIVE NATIONAL & INTERNATIONAL COLLABORATION:

	Name of Partner/Collaborator	Nature of Collaboration / Partnership	Major Outcomes
1.	University of Oxford, UK	Joint Project Proposal	Accepted Proposal worth 7.5M SAR
2.	King's College London, UK	Joint Project Proposal	Accepted Proposal worth 7.5M SAR
3.	King Saud University	Joint Project Proposal	Accepted Proposal worth 0.5M SAR
4.	University of Greenwich, London	Joint Project	Accepted Proposal 50K GBP
5.	Birmingham City University, Birmingham B5 5JU, U.K.	Joint Publication	Published Paper
6.	University of Luxembourg, L-1855 Luxembourg City, Luxembourg	Joint Publication	Published Paper
7.	King's College London, London WC2B 4BG, U.K.	Joint Publication	Published Paper
8.	University of Idaho, Moscow, ID 83944-1023, USA	Joint Publication	Published Paper
9.	University of Glasgow, Glasgow G12 8QQ, UK	Joint Publication	Published Paper

10.	Université Cergy-Pontoise, ENSEA, CNRS, UMR8051, 95000 Paris, France	Joint Publication	Published Paper
11.	University of Electronic, Science, and Technology of China, Chengdu 610000, China	Joint Publication	Published Paper
12.	René Dubos Hospital, 95300 Pontoise, France	Joint Publication	Published Paper
13.	University of Greenwich, London SE1 09LS, UK	Joint Publication	Published Paper
14.	Department of Computer Science and Information Engineering, Asia University, Taiwan	Joint Publication	Published Paper
15.	Umm Al-Qura University, Makkah, KSA	Joint Publication	Published Paper
16.	King Abdulaziz University, Jeddah, KSA	Joint Publication	Published Paper
17.	Washington State University, USA	Joint Publication	Published Paper
18.	College of Medicine, Alfaisal University, Riyadh, KSA	Joint Publication	Published Paper
19.	Department of Medicine, Houston Methodist Hospital and Weill Cornell Medical College, Houston, TX, USA	Joint Publication	Published Paper
20.	School of Computer Science, Carnegie Mellon University, Pittsburgh, PA, USA	Joint Publication	Published Paper
21.	Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA	Joint Publication	Published Paper
22.	Division of Hematology/Medical Oncology, University of Texas Southwestern Medical Center, Dallas, TX, USA	Joint Publication	Published Paper
23.	Division of Blood and Marrow Transplant, Duke University, NC, USA	Joint Publication	Published Paper
24.	Division of Hematology, Department of Medicine, Mayo Clinic, Rochester, MN, USA	Joint Publication	Published Paper
25.	PAS, part of Hexagon	Joint Publication	Published Paper

JOURNALS:

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INTELLIGENT TRANSPORTATION SYSTEMS, vol. 22, no. 8, pp. 5319-5328, **August 2021** https://doi.org/10.1109/TITS.2020.3041518 [**IF: 9.551, Q1**]

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J21. M. Shamim Hossain, **M. A. Rahman**, and G. Muhammad, "Cyber Physical Cloud-Oriented Multi-Sensory Smart Home Framework for Elderly People: Energy Efficiency Perspective," *Elsevier Journal of Parallel and Distributed Computing*, vol. 103, **May 2017**, pp. 11-21, https://doi.org/10.1016/j.jpdc.2016.10.005 [IF: **4.542 Q1**]

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Helped UPM in Building Research Laboratory

1. After joining UPM, I have established two research laboratories.

   a. Advanced Media Laboratory (http://advancedmedialab.com/)
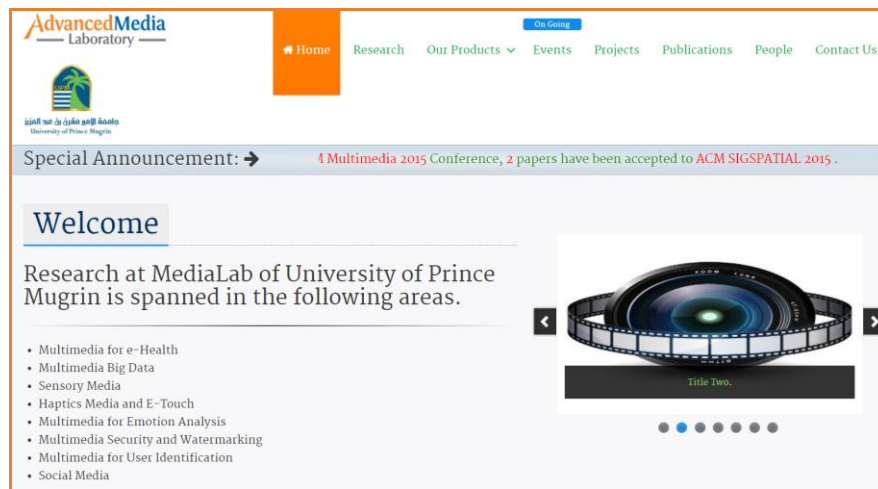
   b. Smart City Research Laboratory (http://mysmartciti.com/)
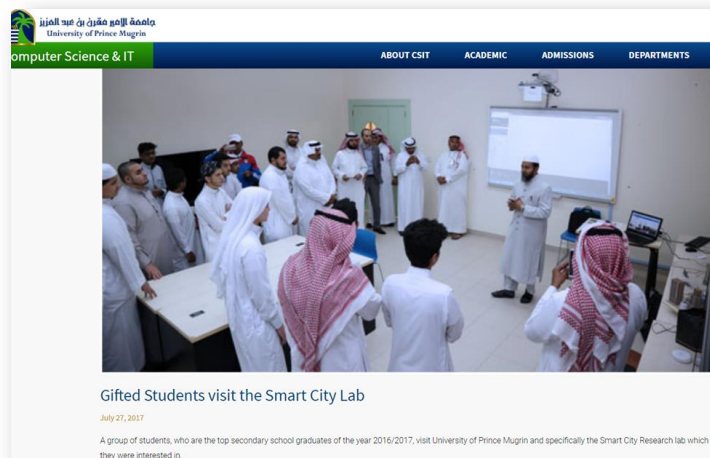
Industrial Projects

1. Delivered Air Quality Monitoring System for Turkish, USA, and Canada pilgrims in Arafah tents for the year Hajj 2023.

2. Delivered custom Pilgrim Bus Monitoring system for Arafah for Turkish, USA, and Canada pilgrims in Arafah tents for the year Hajj 2023.
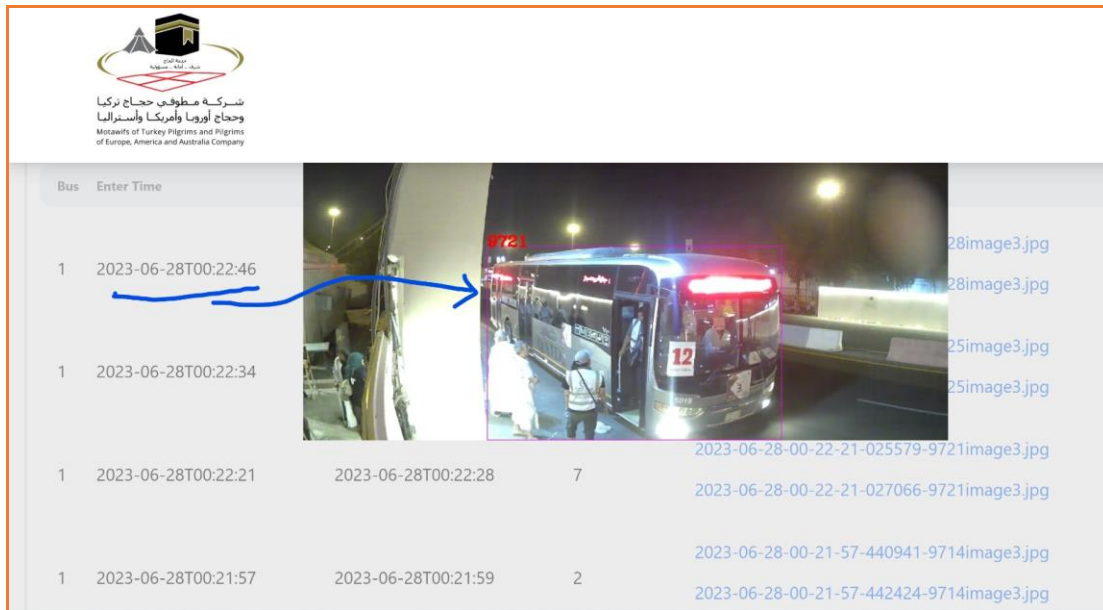
Figure: In Arafah Tent, Makkah, During Hajj 2023
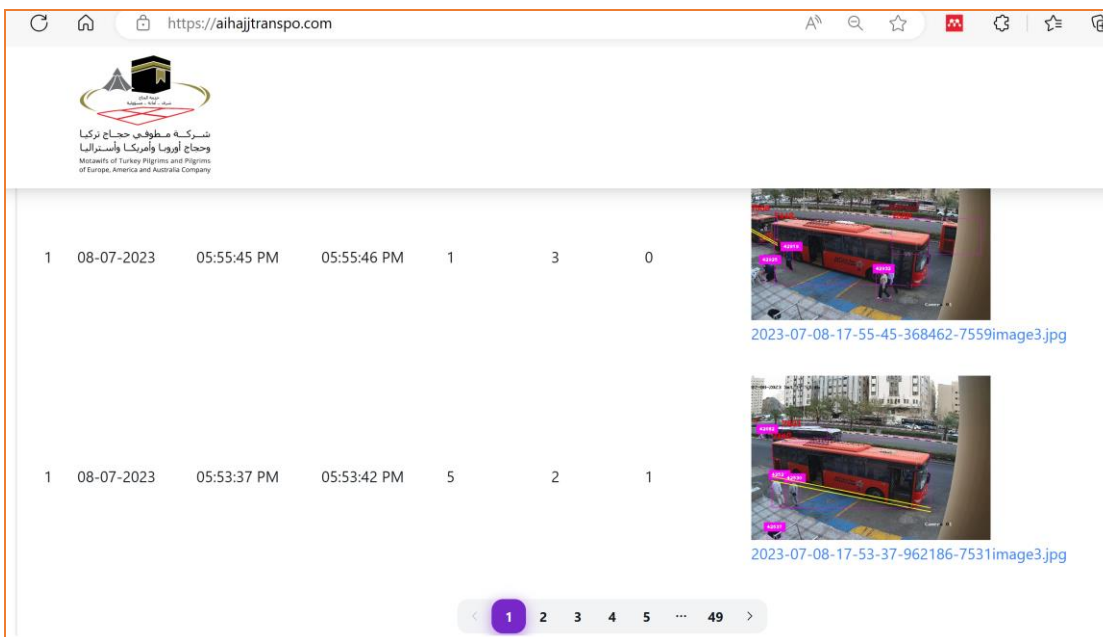
Figure: In Azizia Hotel, Makkah, During Hajj 2023

3. Delivered custom Pilgrim Count system in 220 tents in Mina for Asian Pilgrims' tents for the year Hajj 2023.

حصر اعداد الحجاج

342,014	إجمالي اعداد الحجاج
741	إجمالي اعداد الحجاج المتواجدين
341,273	إجمالي عدد الحجاج خارج المخيمات

الصفحة الرئيسية
حصر اعداد الحجاج
المؤشرات البيئية
وزن الوجبه
عرفة

مركز 4-1		مركز 3-1		مركز 2-1		مركز 1-1	
أعداد الحجاج	1,849	أعداد الحجاج	3,393	أعداد الحجاج	2,830	أعداد الحجاج	4,251
المتواجدون	11	المتواجدون	28	المتواجدون	2	المتواجدون	9
المتبقي	1,838	المتبقي	3,365	المتبقي	2,828	المتبقي	4,242

4. Delivered custom Food weight monitoring system in 220 tents in Mina for Asian Pilgrims' tents for the year Hajj 2023.

albaitpilgrims.com/weights

عدد الوجبات
متوسط الوزن

مركز 4

أعداد الحجاج 4,545

مركز 5

اعداد الحجاج : 4326

الوجبات المرفوضة	الوجبات المقبولة	الوزن المتوسط	
42	8,198	625gm	الفطور
0	0	0gm	الغداء
0	0	0gm	العشاء
42	8,198	625	المجموع

أعداد الحجاج 4,325
عدد الوجبات 0
متوسط الوزن 0

مركز 7

أعداد الحجاج 5,890
عدد الوجبات 0
متوسط الوزن 0
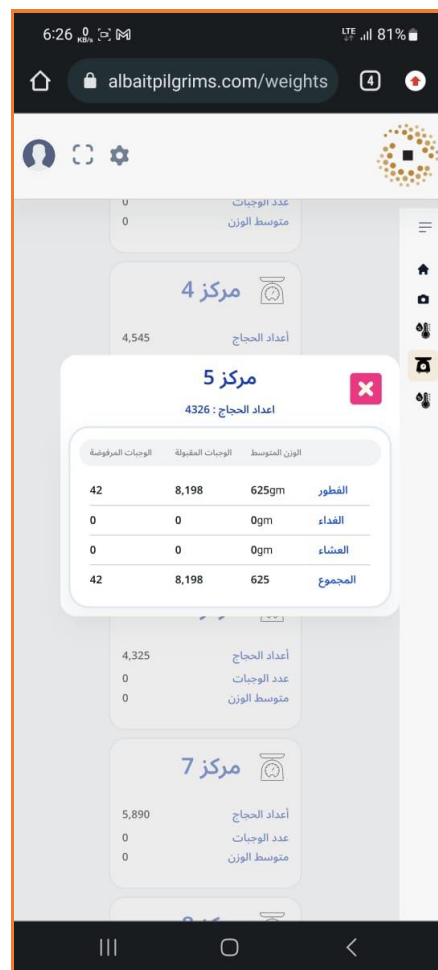
5. I have delivered the first product titled "MADINAH STREETVIEW – An AI assisted live surveillance system for the city of Madinah Al Munawwarah". This is jointly funded by Madinah Development Authority and Department of Amanah. The live demo is available on request (https://youtu.be/POJMXnWVUQU).
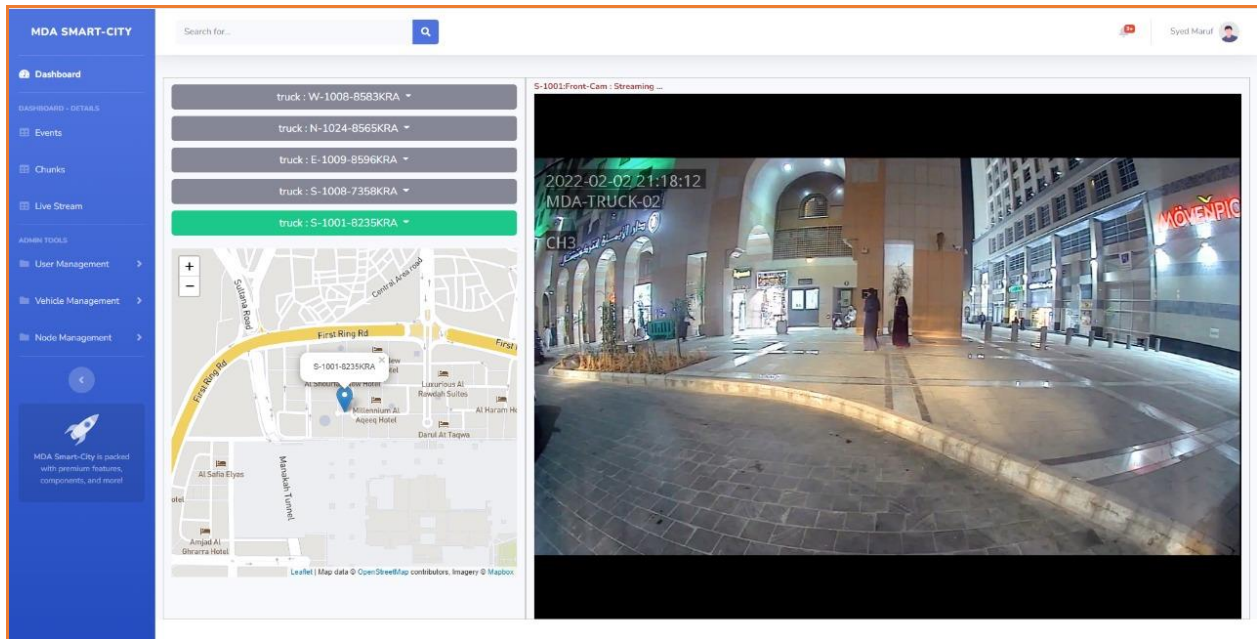
6. I have delivered the first AI-powered smart building management system to the University of Prince Mugrin's Building B in the male campus at Madinah Al Munawwarah. (https://youtu.be/aUCyNVW1qwQ)

7. I have delivered the first UN SDG analytics based on custom IoT and AI-powered smart city management system to the Madinah Regional Development Authority (MRDA) at Madinah Al Munawwarah.
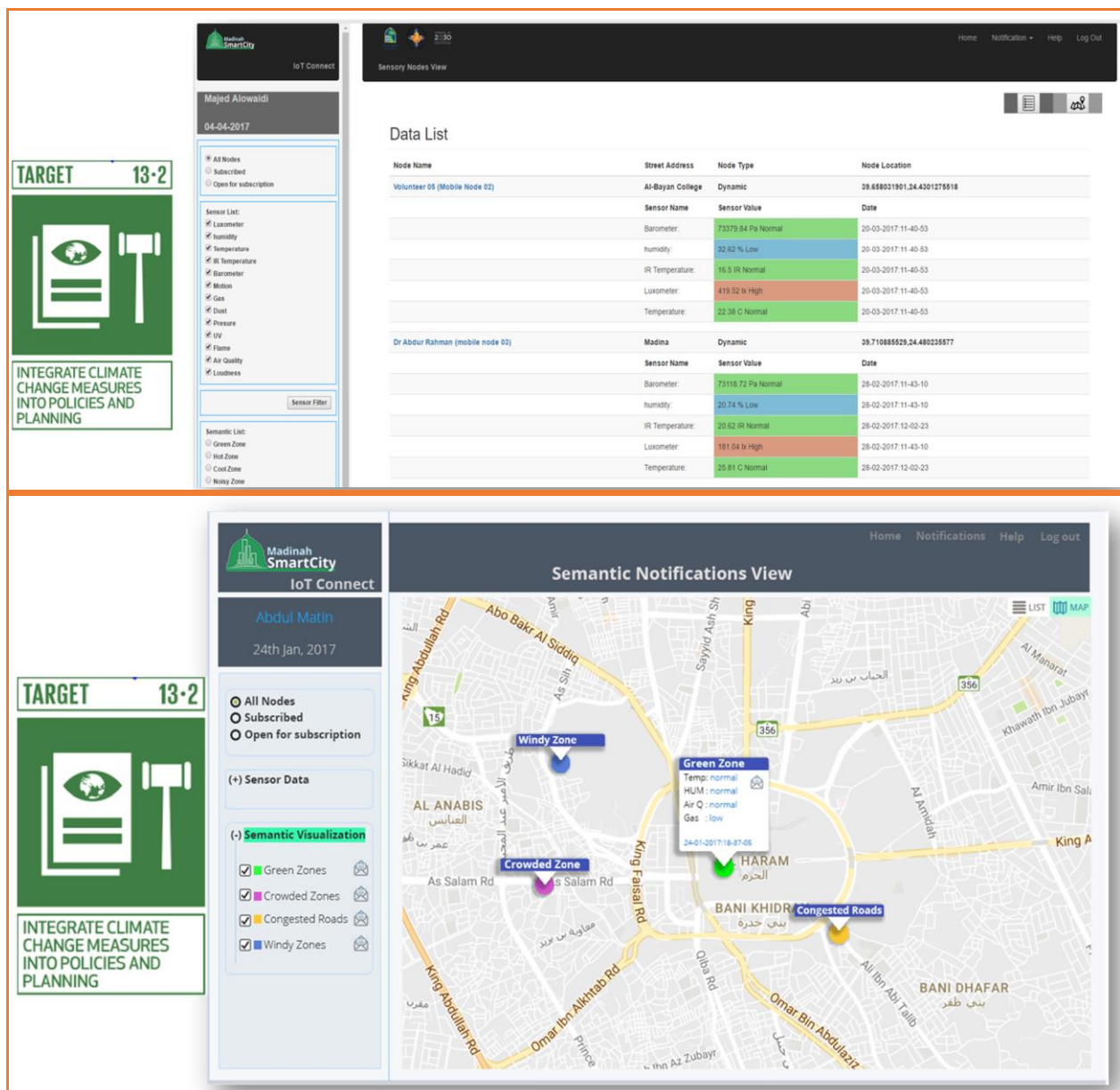
8. I delivered the first Automated License Plate Recognition system through Madinah Municipality (Amanah) Department's garbage truck equipped with IoT and AI nodes running Deep Learning algorithms. The project has been used to recognize and share live license plates from Madinah roads to Criminal Investigation Department. The project is jointly performed through UPM and MRDA.
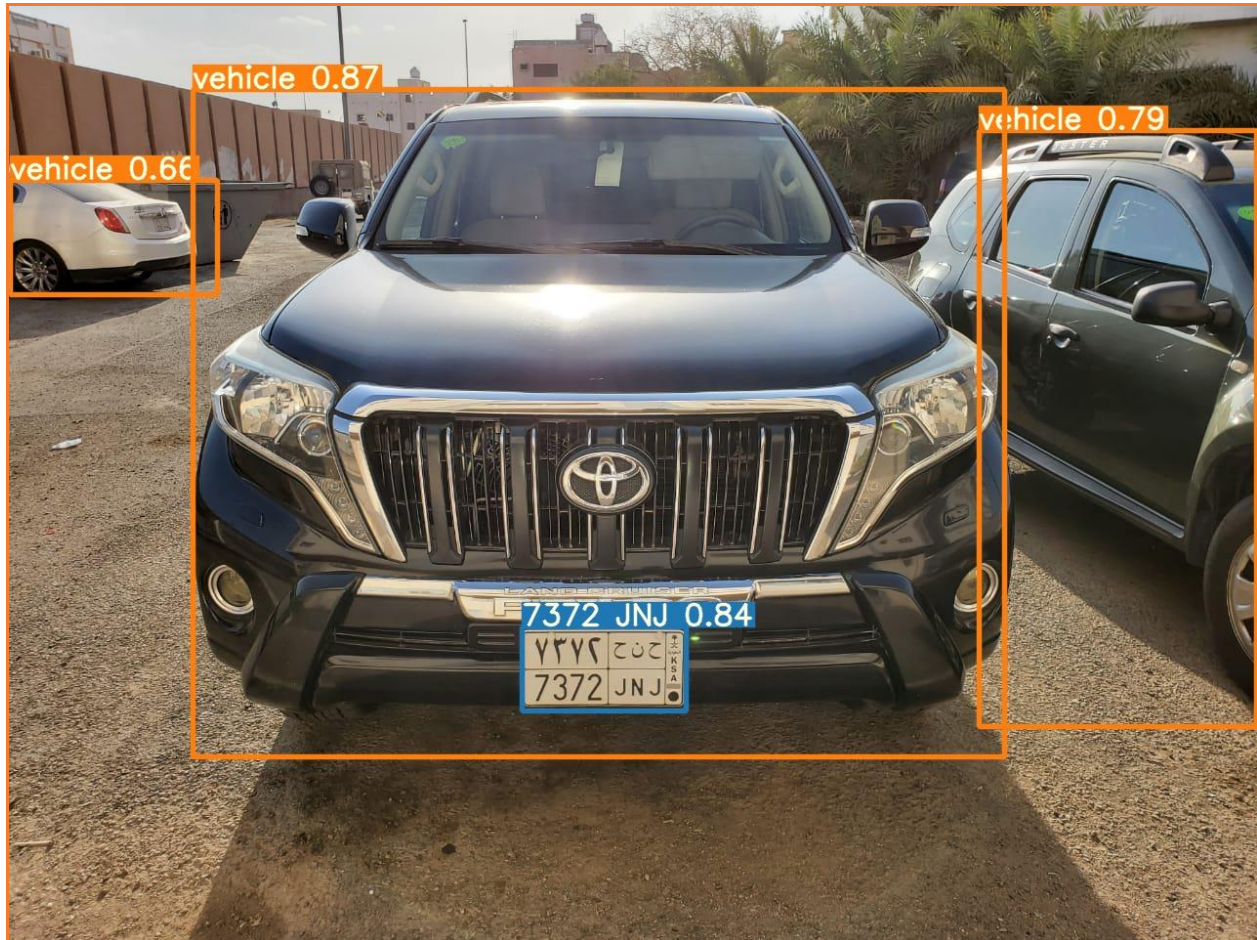
UPM Business and Industrial Relations

- Dr. Md Abdur Rahman has developed 60 AI based tools and demonstrated them to the business development unit of UPM. The demos are available at http://advancedmedialab.com/UPM-AI-COVID19/demo-AI.html

- Dr. Md Abdur Rahman has developed the first SAUDI AI application that uses Deep learning for treating Diabetic Retinopathy patients. Dr. Abdur Rahman has **collaborated with Dr. Selwa Alhazza** to jointly develop this application. The

application is under clinical trials, which has been deployed to UPM local cloud https://dr.medicalmlweb.com/

- Dr. Md Abdur Rahman has developed 5 AI-based COVID-19 diagnosis tools that are under clinical trials in several saudi hospitals. The URL to access those AI tools can be reached at https://www.medml.net/

Invited Talks, Keynote and Presentation

1. I have been invited to be a speaker at the prestigious CS4CA MENA Cyber Security SUMMIT to be held in Riyadh on 28-29 November 2023.

https://mena.cs4ca.com/speakers-cs4ca-mena/

2. I joined as a steering committee of CS4CA MENA region Summit.

3. I have been nominated to be a delegate to attend the emerging tech summit at Riyadh on the 8-9 November 2023.

4. I have been nominated by WHO, ITU, and KACST to present as a speaker about my research on Medical Large Multimodal Model Security, Privacy, and Compliance.

12:00 - 12:45	**Flash Presentations:**	**Moderator: Thomas Wiegand - Executive Director, Fraunhofer Heinrich Hertz Institute, Germany**
	Medical Large Multimodal Model: from Design, Development, Deployment to MVP - Cyber Security, Privacy, and Compliance Perspective	**Md Abdur Rahman** - Associate professor, College of Computer and cyber sciences, University of Prince Mugrin, Madinah, Saudi Arabia

https://www.itu.int/en/ITU-T/focusgroups/ai4h/Documents/gi/Agenda_GI_AI4H_0930_Day2_01Nov2023.pdf | https://www.itu.int/en/ITU-T/focusgroups/ai4h/Pages/default.aspx | https://www.itu.int/en/ITU-T/focusgroups/ai4h/Pages/deliverables.aspx

5. I have been nominated as the panel moderator and speaker in the Cyber Security for Critical Assets World Summit held on the 11th of July 2023.

https://vimeo.com/844295531/a0a42918d3

https://www.linkedin.com/posts/cs4ca_mea-cs4ca-it-activity-7082342542456807424-EgI_?utm_source=share&utm_medium=member_desktop

6. I had the honor to give a keynote speech at Al Rayan Medical Colleges at Madinah Al Munawwarah during their annual symposium on May 22, 2023.

7. I had the privilege to present my capstone student projects to the Vice President of Purdue University, USA during his visit for signing MOU with our C3S College on May 21, 2023. With his delegation was the CISO of Red Sea Project, KSA.

8. I have the honor to give a keynote speech at Arab Open University Madinah branch on May 17, 2023.
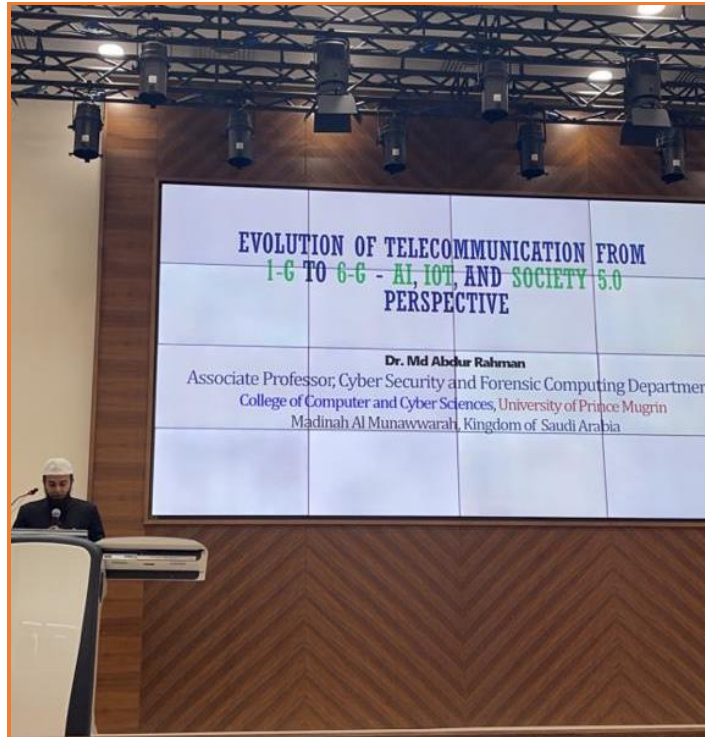
9. I have been nominated to be the area chair of the prestigious ACM Multimedia 2023 conference.

10. I have been invited for this great topic panel discussion.

11. I have been selected to represent the Middle East and Africa region at the prestigious conference CS4CA 2023.

12. I have been nominated to be a speaker and panelist in the prestigious Governance, Risk, and Compliance (GRC) world forum to be held in May 2023.
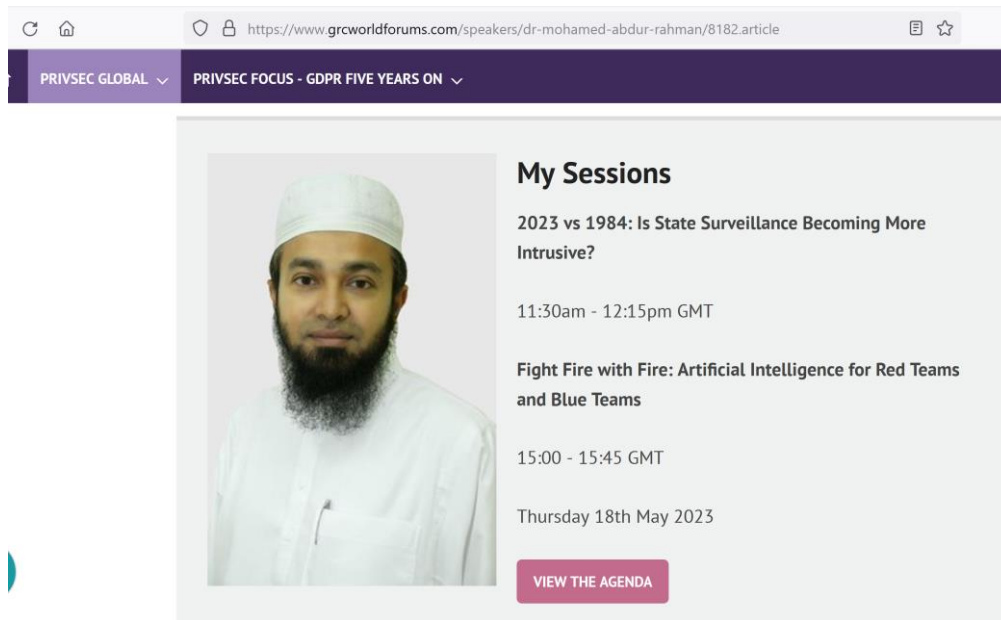
13. I presented our MADINASOC cyber range in front of the Director of Cyber Security Director and CISO of NEOM Dr. Hussein AlDawood.

14. I had the honor to receive the Director of Cyber Security Director and CISO of NEOM Dr. Hussein AlDawood for my capstone student project presentation event.

15. I participated with 2 of my students at the LEAP2023 in their AliBaba Cloud Computing Hackathon. The hackathon was participated by 45000 participants from 35 countries. We are among the top 100 finalists.

16. I had the honor to be a panelist during the SDAIA and Ministry of Education visit at University of Prince Mugrin.

17. I participated in the BLACKHAT 2022 event in Riyadh with our UPM students.

18. I have given a 2-hour webinar followed by a Kaggle competition (https://www.kaggle.com/competitions/deep-learning-for-cyber-security/leaderboard) on the following topic "Cyber Security for Deep Learning and Deep Learning for Cyber Security". The event is organized by the Cyber Security Club and AI club of UPM and hackthonat.
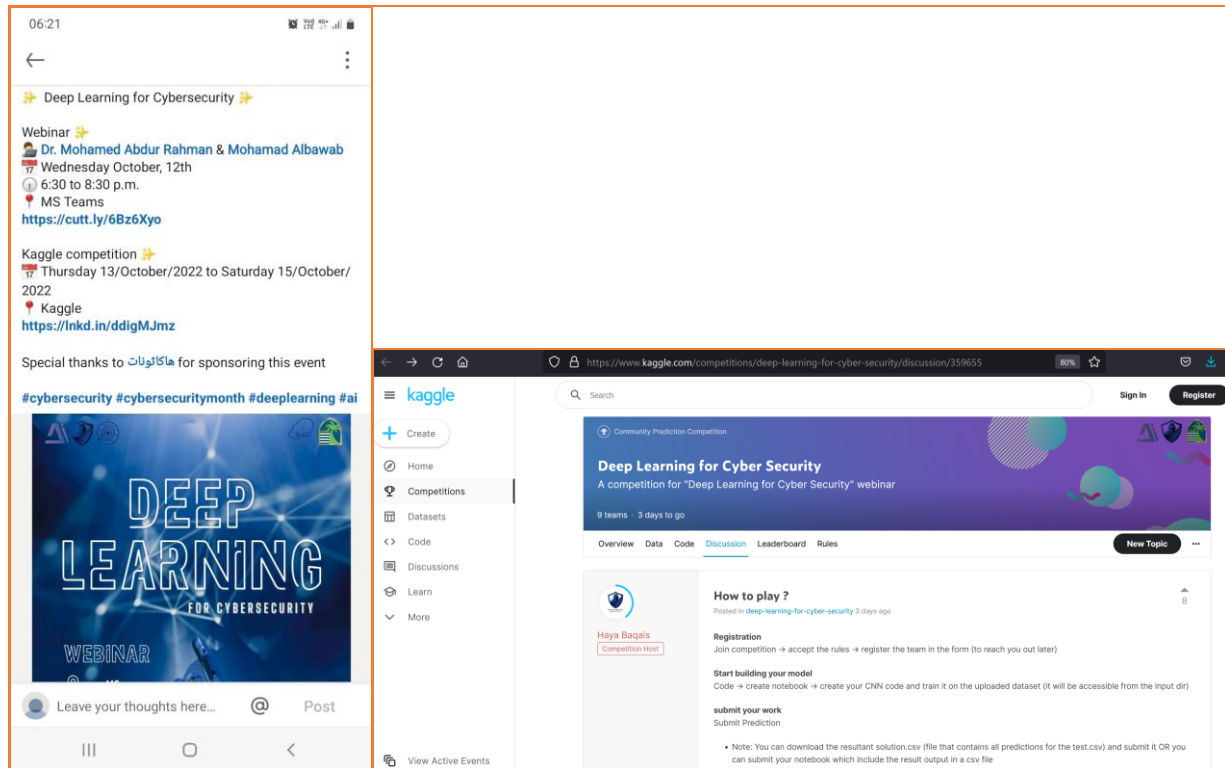
19. I have been chosen to be a panelist and a speaker at the prestigious Times Higher Education (THE) conference on Cyber Security.

Speakers | THE Digital Universities MENA 2022 (timeshighered-events.com)

[Agenda | THE Digital Universities MENA 2022 (timeshighered-events.com)](https://www.timeshighered-events.com/digital-universities-mena-2022/agenda)

20. I have given a keynote speech arranged by Sonargaon University, Dhaka, Bangladesh, in seminar entitled "Industrial Revolution (IR) 5.0 – Building Human Centric Smart City of the Future Using IoT and AI – A Beginner's Insight". The event took place in the seminar room of Rector Office on 12th of August 2022. The seminar was attended by the Rector, Vice Rectors, Deans, Head of the Departments, faculty members, Students, invited guests and administration. The letter of appreciation can be found here https://www.dropbox.com/s/qv50npopjc5vdi9/Letter%20of%20Appreciation%20-%20Sonargaon%20University.pdf?dl=0

Sonargaon University (SU)
UGC & Govt. Approved
সোনারগাঁও ইউনিভার্সিটি (এসইউ)
WE WILL RISE UP / WE WILL SHINE

Seminar on

Industrial Revolution (IR) 5.0- Building Human Centric Smart City of the Future Using IoT and AI

Chief Guest	:	**Prof. Dr. Md. Abul Bashar, Vice-Chancellor, SU**
Special Guests	:	Prof. Shamim Ara Hassan, Pro Vice-Chancellor
		Prof. Md. Al-Amin Molla, Treasurer, SU
		Prof. Dr. M. A. Mabud, Dean, FoA&H, SU
		Prof. Abul Kalam, Dean, FoB, SU
		S.M. Nurul Huda, Registrar, SU
Keynote Speaker:		Dr. Md. Abdur Rahman, Associate Professor, Dept. of Cyber Security & Forensic Computing Ex-Chairman of Cyber Security Dept. University of Prince Muqrin, Madinah, KSA
Chairperson	:	Prof. Dr. Md. Alamgir Hossain, Director, IQAC, SU
Moderator	:	Mr. Bulbul Ahmed, Associate Professor (CSE) & Additional Director, IQAC, SU

Venue: 147/I, Green Road Campus, Room # 304
Date: August 10, 2022, Time: 3:30pm

Organized by: Institutional Quality Assurance Cell (IQAC), SU   **Media Partners:**

21. I have given a keynote speech in Khulna City Corporation in front of City Mayor, the councilors, the engineering team on title "Design and Develop Smart City Services Using Artificial Intelligence and IoT" on August 7, 2022. The letter of appreciation can be found here
https://www.dropbox.com/s/456lcvijfmke9k1/KCC-Letter%20of%20Appreciation%20-%20August%202022.pdf?dl=0

"ডিজাইন এন্ড ডেভেলপ স্মার্ট সিটি সার্ভিসেস ইউজিং আর্টিফিসিয়াল ইন্টেলিজেন্স এন্ড লট ০ঃ কেসিসি পারসপেকটিভ" শীর্ষক কর্মশালায় প্রধান অতিথির বক্তৃতা করেন কেসিসি মেয়র তালুকদার আব্দুল খালেক।

07 আগস্ট : "ডিজাইন এন্ড ডেভেলপ স্মার্ট সিটি সার্ভিসেস ইউজিং আর্টিফিসিয়াল ইন্টেলিজেন্স এন্ড লট ঃ কেসিসি পারসপেকটিভ" শীর্ষক কর্মশালায় প্রধান অতিথির বক্তৃতা করেন কেসিসি মেয়র তালুকদার আব্দুল খালেক।

খুলনা সিটি কর্পোরেশনের মেয়র তালুকদার আব্দুল খালেক বলেছেন, নাগরিক সেবা নগরবাসীর দোরগোড়ায় পৌঁছে দিতে খুলনাকে স্মার্ট সিটি হিসেবে গড়ে তুলতে চাই। বর্তমান যুগে সেবাদানের ক্ষেত্রে তথ্য প্রযুক্তির ব্যবহার অপরিহার্য হয়ে পড়েছে। তাই অধিকতর নাগরিক সেবা প্রদানের জন্য তথ্য প্রযুক্তির ব্যবহার নিশ্চিত করতে হবে। তিনি বলেন, বঙ্গবন্ধু কন্যা মাননীয় প্রধানমন্ত্রী শেখ হাসিনা দুই হাজার একচল্লিশ সালের মধ্যে দেশকে উন্নত বিশ্বের কাতারে নিয়ে যেতে চান। সেই লক্ষ্য নিয়ে সকলকে ঐক্যবদ্ধ হয়ে কাজ করতে হবে।

সিটি মেয়র আজ রবিবার দুপুরে নগর ভবনের জিআইইজেড মিলনায়তনে "ডিজাইন এন্ড ডেভেলপ স্মার্ট সিটি সার্ভিসেস ইউজিং আর্টিফিসিয়াল ইন্টেলিজেন্স এন্ড লট ঃ কেসিসি পারসপেকটিভ" শীর্ষক কর্মশালায় প্রধান অতিথির বক্তৃতায় এ কথা বলেন।

কেসিসির প্রধান নির্বাহী কর্মকর্তা (যুগ্মসচিব) লস্কর তাজুল ইসলাম-এর সভাপতিত্বে অনুষ্ঠিত কর্মশালায় বিষয়বস্তুর ওপর প্রেজেন্টেশন উপস্থাপন করেন মদীনা বিশ্ববিদ্যালয়ের প্রফেসর ড মোঃ আব্দুর রহমান। প্রধান অতিথির বক্তৃতায় সিটি মেয়র আরো বলেন, প্রধানমন্ত্রী শেখ হাসিনাই একমাত্র ডিজিটাল বাংলাদেশের প্রবর্তক। তিনি দেশকে উন্নয়নের পথে এগিয়ে নিতে এই সমযোপযোগী পদেপ গ্রহণ করেন। কেসিসির অর্থ ও সংস্থাপন স্থায়ী কমিটির সভাপতি কাউন্সিলর শেখ মোহাম্মদ গাউসুল আযম, বর্জ্য ব্যবস্থাপনা স্থায়ী কমিটির সভাপতি কাউন্সিলর এস এম খুরশিদ আহম্মেদ টোনা, নগর অবকাঠামো নির্মাণ ও সংরণ স্থায়ী কমিটির সভাপতি কাউন্সিলর মোঃ শামসুজ্জামান মিয়া স্বপন, নগর পরিকল্পনা স্থায়ী কমিটির সভাপতি কাউন্সিলর ফকির মোঃ সাইফুল ইসলাম ও স্টোর এন্ড প্রোপার্টি স্থায়ী কমিটির সভাপতি কাউন্সিলর মোঃ গোলাম মাওলা শানু প্রমুখ কর্মশালায় মতামত তুলে ধরেন। অন্যানের মধ্যে খুলনা প্রকৌশল ও প্রযুক্তি বিশ্ববিদ্যালয়ের প্রফেসর এবিএম মামুনুর রশীদ, কেসিসির প্রধান প্রকৌশলী মোঃ মনজুরুল ইসলাম, তত্ত্বাবধায়ক প্রকৌশলী মশিউজ্জামান খান ও মোঃ আব্দুল আজিজ, নির্বাহী প্রকৌশলী জাহিদ হোসেন শেখ, চীফ প্লানিং অফিসার আবির উল জব্বার, নির্বাহী প্রকৌশলী মোঃ সাহাবুল আলম, শেখ মোঃ মাসুদ করিম, স্থপতি রেজেবিনা খানম, কঞ্জারভেন্সী অফিসার মোঃ আনিসুর রহমান, সহকারী কঞ্জারভেন্সী অফিসার মোঃ আব্দুর রকীব ও নুরুন্নাহার ন্যান্সি, সহকারী প্রকৌশলী শ্বাহ্যদুল্লাহ খান, উপসহকারী প্রকৌশলী মোঃ নাজমুল হুদা, মোঃ মনিরুজ্জামান, সহকারী নগর পরিকল্পনাবিদ নিশাত তাসনিম, সহকারী এস্টেট অফিসার শেখ মাসুদ আলী প্রমুখ কর্মশালায় উপস্থিত ছিলেন।

22. I have given a keynote speech in Khulna in front of City Mayor, the councilors, the engineering team on title "Design and Develop Smart Building Services Using Artificial Intelligence and IoT" on August 3, 2022.

23. I have given a keynote speech in Khulna University of Engineering and Technology (KUET) in front of their engineering team on title "Self-Explainable AI and IoT to Build Next Generation Secure Smart City" on July 25, 2022. Here is the letter of appreciation.

https://www.dropbox.com/s/r4bgvuyiah2nrxm/recommendationLetterKUET-2022.pdf?dl=0

24. I have led the UPM startup booth in the MIT Startup event hosted at the King Salman Exhibition Center at Madinah on March 2022. I have presented two products to the audience. Details of the products can be seen here https://youtu.be/POJMXnWVUQU | https://youtu.be/aUCyNVW1qwQ

25. I have led the startup booth at LEAP2022 and presented our UPM-MDA smart city solution in Riyadh.
26. I have been invited as a keynote speaker at the prestigious MENA Cyber Security Conference to be held in Dubai 2022.

Speakers | MENA Cyber Security Conference | 24-25 Jan 2022 | Dubai (cs4ca.com)

https://mena.cs4ca.com/speakers/
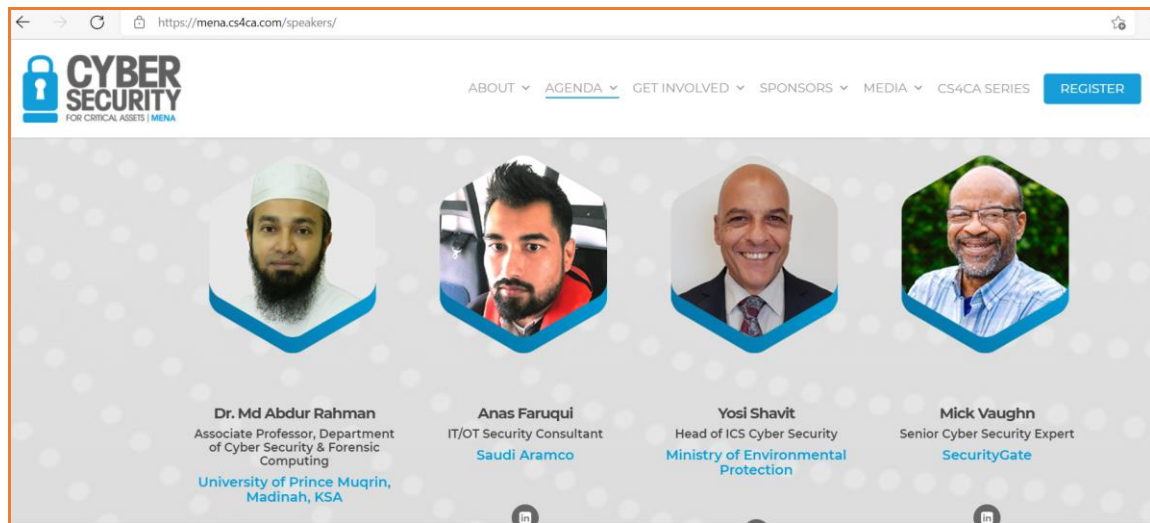
27. I have been selected as steering committee member of the prestigious MENA cyber security conference to be held in DUBAI in 2022.

Steering Committee | MENA Cyber Security Conference | 24-25 Jan 2022 (cs4ca.com)

https://mena.cs4ca.com/steering-committee/
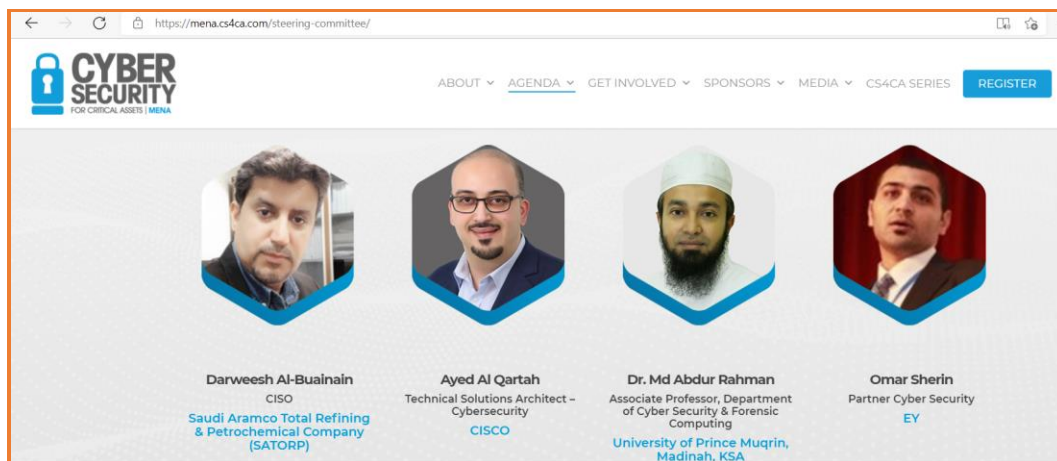
28. I have been invited as keynote speaker at the MENA Industrial Cyber Security Conference, 2021, which took place on 15-16 November 2021. https://menaindustrialcybersec.com/speakers/
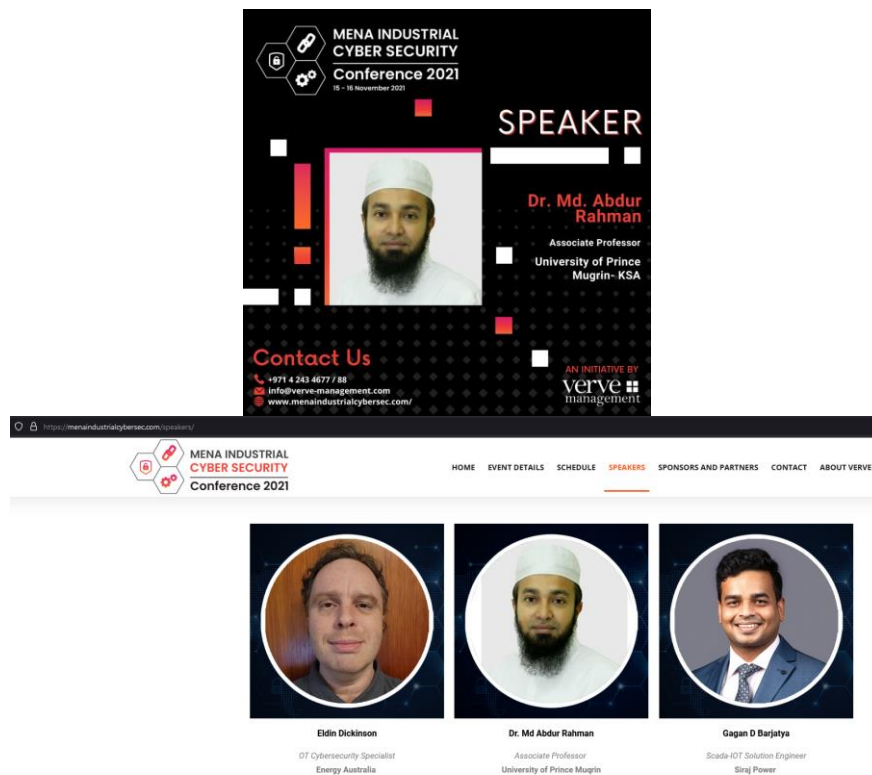
29. I had the honor to serve as prestigious panel moderator of the MENA industrial Cyber Security Conference 2021.
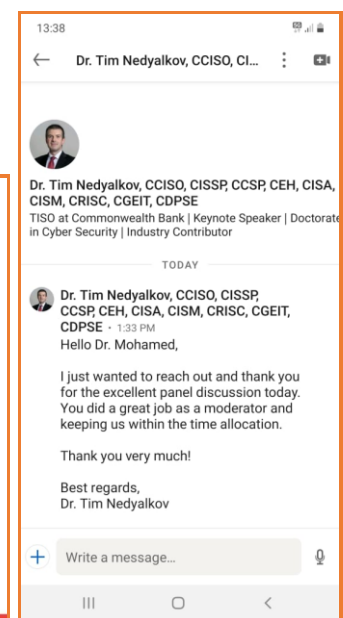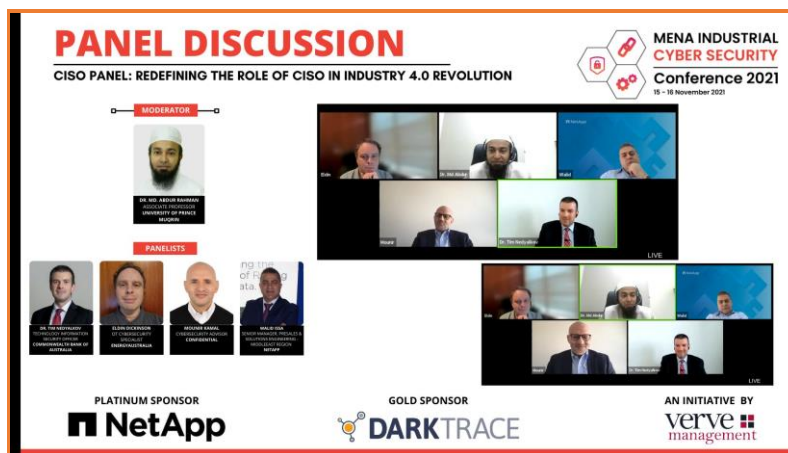
30. I Gave a lecture on Industrial Cyber Security
https://twitter.com/UPMMadinah/status/1360715279525937163?s=20

31. Dr. Md Abdur Rahman has been invited to King Abdulaziz University's (KAU) Winter Enrichment Program Lecture series. The topic of lecture has been decided to be "Self-Explainable Deep Learning at the Edge, Internet of Health Things, Beyond 5G, and Blockchain Based Digital Twin: Personalized Healthcare During Pandemic".

Time:11-11:25

Title: Self-Explainable Deep Learning at the Edge, Internet of Health Things, Beyond 5G, and Blockchain Based Digital Twin: Personalized Healthcare During Pandemic

Speaker: Dr. Abdur Rahman

Dr. Md. Abdur Rahman is an Associate Professor and former Chairman of the Department of Cyber Security and Forensic Computing, College of Computer and Cyber Sciences, University of Prince Muqrin (UPM), Madinah Al Munawwarah, Kingdom of Saudi Arabia. Dr. Rahman is currently serving as the Director of the Research and Postgraduate Studies Department at UPM. In 2018, 2019, and 2020.

Abstract:

COVID-19 pandemic has shown the weaknesses of our existing healthcare systems, as a city, state, country, and global village. To flatten the curve, the healthcare providers have resorted to traditional clinical solutions, which does not scale to mass level. Thanks to the recent advancements in AI-based Healthcare technologies in the areas such as Self-Explainable Deep Learning at the Edge, Blockchain, Internet of Health Things (IoHT), and Beyond 5G (B5G), to name a few, researchers have shown that technological advancement can play a key role in managing the digital twin of each individual during the pandemic. In this talk, I will first present different branches of deep learning that have contributed to healthcare system automation. I will then present how we leveraged these 4 key technologies during the recent development of more than 58 COVID-19 related applications for COVID-19 diagnosis and pandemic management. The running hands-on demonstrations have been presented to Prince Sultan Military Hospital at Madinah Al Munawwarah during a one-day workshop in which we have trained more than 60 medical practitioners from the hospital and got their feedback on clinical trials. I will also show you how we designed the final model, from dataset collection, training, testing, validating, and deploying to our LOCAL SECURE CLOUD as web interface and smartphones – to be ready for clinical trials. Finally, I will share some recommendations regarding the way forward.

32. Dr. Md Abdur Rahman has organized a demo event, in conjunction with the Vice Rector for Business Development of UPM, which took place on 28th of October 2020 at UPM. In this demo event, I showed 60 AI-based deep learning applications, as part of our UPM portfolio, to Technology Control Company (https://www.tcc-ict.com/en/), one of the largest Saudi Cloud providers.

33. I have been invited as the keynote speaker at the prestigious Cyber Security for Critical Assets Conference to be held on 1st – 2nd February 2021 in Dubai, UAE (https://mena.cs4ca.com/). The title of my talk is "Potential of AI for Protecting Critical National Infrastructure"

34. I have joined the prestigious Cyber Security for Critical Assets Conference to be held on 1st – 2nd February 2021 in Dubai, UAE (https://mena.cs4ca.com/) as Steering Committee member.

35. I have organized a one-day workshop at Prince Sultan Military Hospital in which we have trained 60 medical doctors about our developed medical products using AI.

University of Prince Mugrin's

Demo and Training Event on "AI for COVID-19 Rapid Diagnosis"

(Project ID: 05-20-01-127-0001)

In Association with/Funded by King AbdulAziz City for Science and Technology (KACST)

On Sunday, August 30, 2020, COVID19 Project Team under the umbrella of University of Prince Mugrin, a private non-profit higher education institution located in Madinah, Saudi Arabia, trained and demonstrated Covid19 Rapid Diagnosis using AI for the Medical Staff and other Participants of Prince Sultan Hospital for Armed Forces in AlMadinah AlMunawarah.
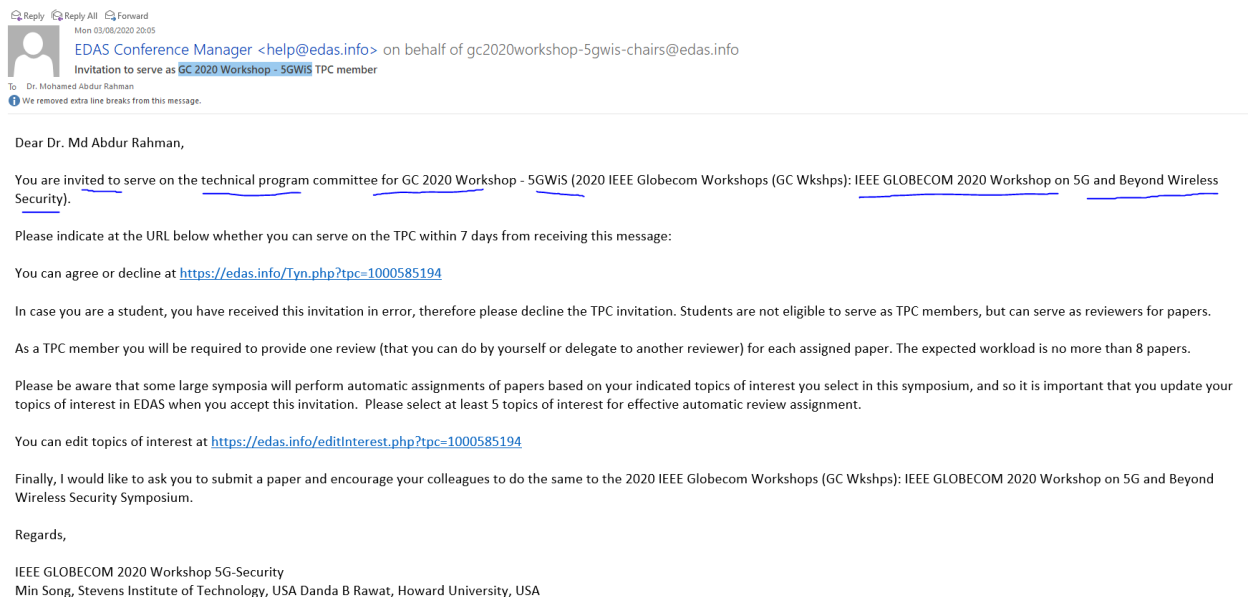
36. On Sunday, August 16, 2020, I organized an event to demonstrate the work in progress for my COVID-19 funded project at University of Prince Mugrin, in Madinah, Saudi Arabia.

The Event was attended by UPM Rector, Vice Rectors, Deans, and business investors, which was led by the PI of the project, followed by the introductory presentation and demonstration of Covid-19 related development work in progress, which is available at website: http://www.advancedmedialab.com/UPM-AI-COVID19/demo-AI.html

The project github repository contains more information https://upm-kacst-covid19.github.io/

37. I joined as TPC member of IEEE GLOBECOM 2020 5G and Beyond Wireless Security Workshop.

Reply Reply All Forward
Mon 03/08/2020 20:05
EDAS Conference Manager <help@edas.info> on behalf of gc2020workshop-5gwiis-chairs@edas.info
Invitation to serve as GC 2020 Workshop - 5GWiS TPC member
To Dr. Mohamed Abdur Rahman
ⓘ We removed extra line breaks from this message.

Dear Dr. Md Abdur Rahman,

You are invited to serve on the technical program committee for GC 2020 Workshop - 5GWiS (2020 IEEE Globecom Workshops (GC Wkshps): IEEE GLOBECOM 2020 Workshop on 5G and Beyond Wireless Security).

Please indicate at the URL below whether you can serve on the TPC within 7 days from receiving this message:

You can agree or decline at https://edas.info/Tyn.php?tpc=1000585194

In case you are a student, you have received this invitation in error, therefore please decline the TPC invitation. Students are not eligible to serve as TPC members, but can serve as reviewers for papers.

As a TPC member you will be required to provide one review (that you can do by yourself or delegate to another reviewer) for each assigned paper. The expected workload is no more than 8 papers.

Please be aware that some large symposia will perform automatic assignments of papers based on your indicated topics of interest you select in this symposium, and so it is important that you update your topics of interest in EDAS when you accept this invitation. Please select at least 5 topics of interest for effective automatic review assignment.

You can edit topics of interest at https://edas.info/editInterest.php?tpc=1000585194

Finally, I would like to ask you to submit a paper and encourage your colleagues to do the same to the 2020 IEEE Globecom Workshops (GC Wkshps): IEEE GLOBECOM 2020 Workshop on 5G and Beyond Wireless Security Symposium.

Regards,

IEEE GLOBECOM 2020 Workshop 5G-Security
Min Song, Stevens Institute of Technology, USA Danda B Rawat, Howard University, USA
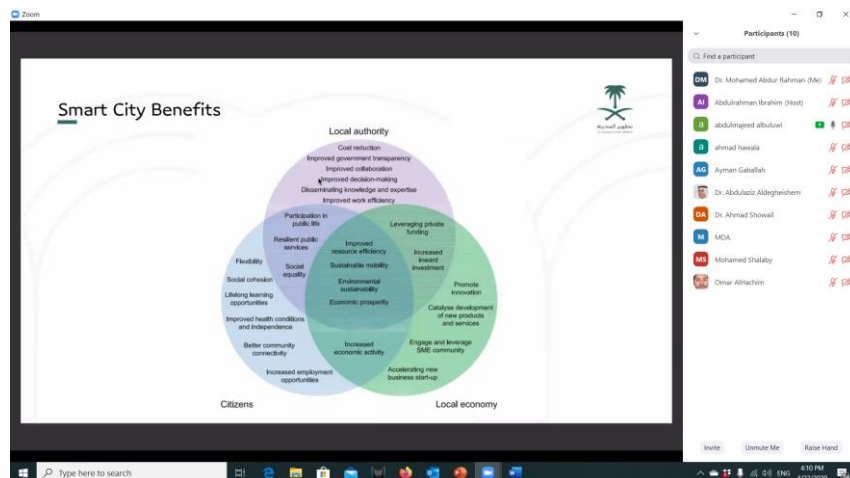
38. I have been invited for Keynote speech at the IEEE Multimedia Services and Technologies for Smart-Health (MUST-SH 2020) workshop to be held on **6-10 July 2020**, London, United Kingdom.
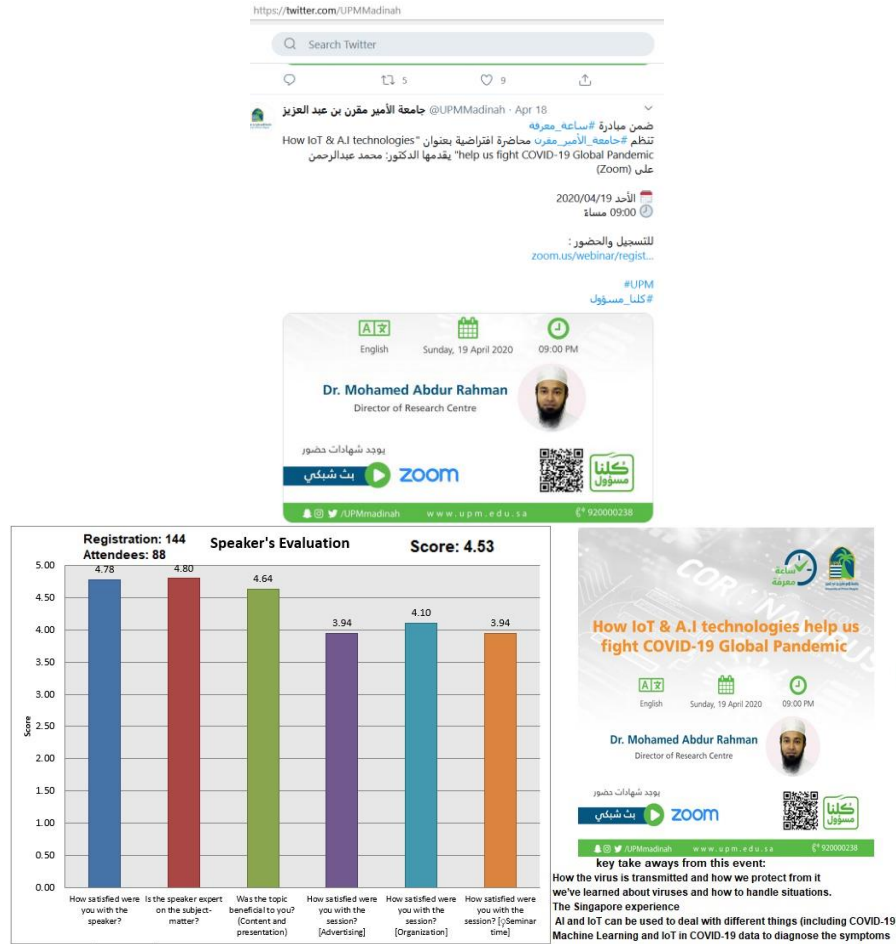
https://2020.ieeeicme-virtual.org/presentation/workshop-keynote/workshop-multimedia-services-and-technologies-smart-health-must-sh

39. I presented our UPM startup progress during meeting between UPM and Madinah Development Authority (MDA) on 22nd of April, 2020. The title of the presentation was "**Managing mda affairs with artificial intelligence, 5g, and iot**"

40. I gave a public talk and seminar with title "**How IoT & A.I help us fight COVID-19 Global Pandemic**" on 19th April 2020 through Zoom-based online broadcasting.

41. I am the technical chair of the IEEE Multimedia Services and Technologies for Smart-Health (MUST-SH 2020) workshop to be held on **6-10 July 2020**, London, United Kingdom. The details of the conference can be reached at

https://www.2020.ieeeicme.org/index.php/workshops/#Workshop8

42. I did a presentation and live demo on AI for Smart City Solutions toward establishment of a Center of Excellence in AI at UPM one **17th February, 2020**.

43. I showed a demo To Sheikh Sudais on January 23, **2020** the following demo
    a. AI for Smart city
    b. Secure Smart Building Management System

44. I presented our Smart City Research and Development Prototype to the CEO of Elm (https://www.elm.sa/en/Pages/default.aspx) on **25th December, 2019**. The event was organized by the Rector office and the Office of Vice Rector for Business.

45. I participated at the Monshaat startup competition at the Kingdom level where all the business startups in the whole Kingdom participated and won the **first award** for our "UPM Startup-Home Physiotherapy System" on **30th November 2019**. Details news can be reached at
https://twitter.com/UPMMadinah/status/1201067500080893952
https://www.instagram.com/p/B6bBOBWFMQ2/

46. I participated at the Monshaat startup competition at the Madinah level and won the **first position** for our "UPM Startup-Home Physiotherapy System". The news is published at
https://twitter.com/UPMMadinah/status/1199402140445351938

47. I showed a demo of our Blockchain-based secure house to the CEO of red sea project. The demo event took place the female campus of UPM on 15th of November, **2019**.

https://twitter.com/UPMMadinah/status/1195308816767823872?s=19

48. Presented my blockchain integration project with the University of Glasgow 5G testbed on June 29, **2019**.

49. I presented a demo on "Secure smart facilities based on IoT and Blockchain" at the ACM International Conference on Multimedia Retrieval (ACM ICMR 2019), held in Ottawa, ON, Canada from 10-13 June, **2019**.


50. I was guest speaker at the "Prince Saud Madinah Imarah Delegation team" introduction to UPM research, which took place at the University of Prince Mugrin on 28th of April **2019**.

51. Invited Speaker at the 16th Learning and Technology Conference (L&T 2019), Effat University, 3rd and 4th of March **2019** in Jeddah, Kingdom of Saudi Arabia. Title of the talk is "Artificial Intelligence to Counter Next Generation Threats".

52. I was guest speaker at the National Guards Security Seminar took place at the University of Prince Mugrin on 26th of February, **2019**.

53. Presented the Blockchain for Hajj project demo in King Salman Convention Center at Madinah on 7th February **2019**. In this demonstration, we have demoed our developed Blockchain DApps.
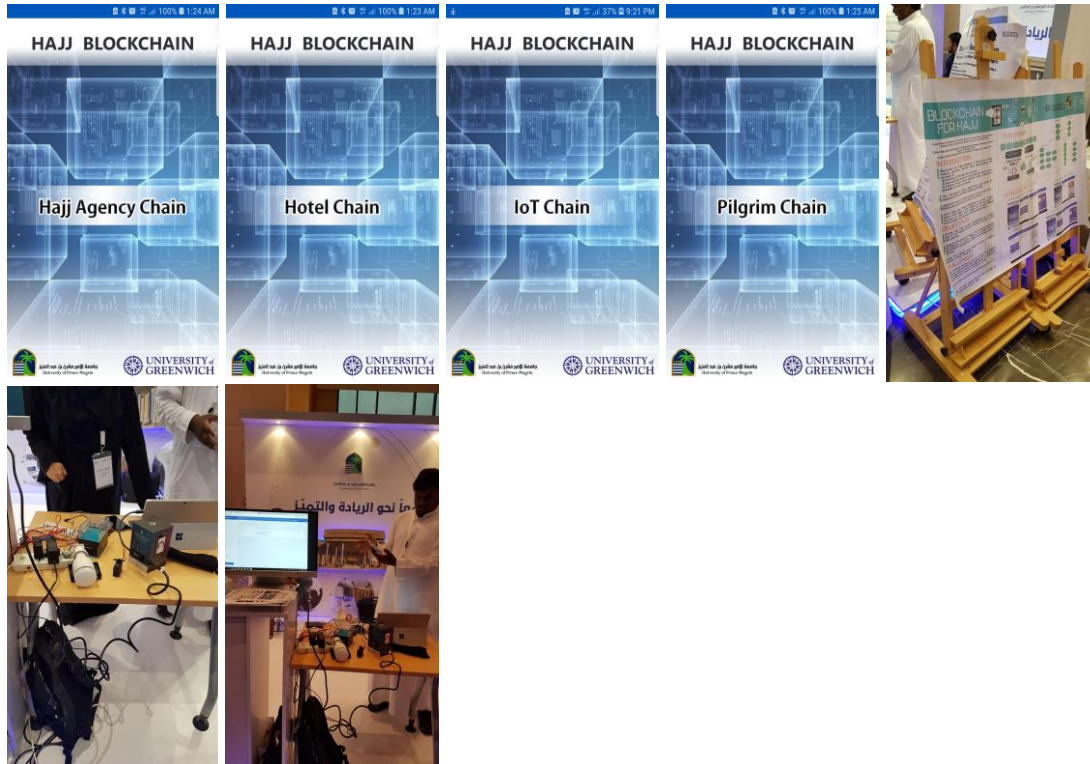
54. Speaker at the Jeddah Bangladesh Consulate General on a workshop in which I was the Speaker with title "Secure Consular services on Blockchain" held on 6th December, **2018**.

55. Speaker at the Ministry of Defense Workshop held in Ritz Carlton Hotel, Riyadh, held on 28-29 November 2018. I presented the following three topics

     c.   "Artificial Intelligence for Next Generation Threats"
     d.   "The Blockhain Revolution and its Applications to MoD"
     e.   "IoT Infrastructure Resilience and Future Paradigms"

## Ministry of Defense workshop

December 05, 2018

The Ministry of Defense, in collaboration with Prince Muqrin bin Abdul Aziz University, held a workshop " Build Cyber Capabilities and Develop

56. I was invited by King Khalid University for a one-day workshop to "Establish Artificial Intelligence Research Center at King Khalid University" held on October 2nd, 2018 at King Khalid University, Saudi Arabia.

المملكة العربية السعودية
وزارة التعليم
جامعة الملك خالد
تقنية المعلومات

Kingdom of Saudi Arabia
Ministry of Education
King Khalid University
Information Technology

Dear Dr. Mohamed Abdul Rahman,

It's our honour to invite you to visit our newly established research center at King Khalid University on Tuesday October 2nd, and present your research work.

For personal contact:

Mr. Riyad Alsaab

rsaab@kku.edu.sa

0503739991

Warm regards,

CIO and Director of Center for Artificial Intelligence

Dr. Salem Alelyani

it.kku.edu.sa
it@kku.edu.sa
@kku_it
kku.it

kku.edu.it
+966 172419900
+966 172419910

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57. I served as the workshop chair of IEEE International Conference on Multimedia and Exo (ICME) 2018, which was held on July 23-27, 2018 at San Diego, USA.
http://www.icme2018.org/conf_workshops#workshop-msts
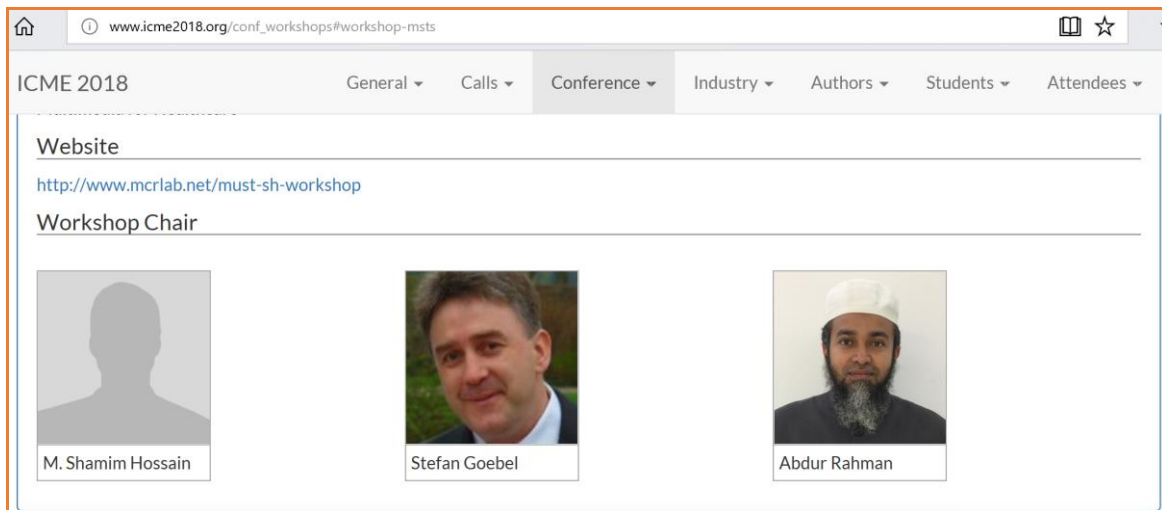
58. I am the **track co-chair** of the **13ᵗʰ International Conference** on Broad-Band Wireless Computing, Communication and Applications held in **October 27-29, 2018**, Tunghai University, Taichung, Taiwan.

59. Speaker at the 4ᵗʰ Euro-Global Physiotherapy congress 2017 to be held in Rome, Italy, December 7-8, 2017

| Time	
09:45 -11:30	**Workshop title: Rehabilitative techniques in Proctology**
11:30-11:55	Title: Pelviperineal kinesitherapy **Arianna Bortolami, Garibaldi Nesima Hospital , Italy**
11:55-12:15	Title: Tibial electrostimulation **Filippo La Torre,Sapienza University , Italy**
12:15-12:40	Title: Rehabilitation of obstructed defecation :Techniques and treatment outcomes **Filippo Pucciani, University of Florence, Italy**
12:40-01:00	Title: Skeletal muscle atrophy and hypertrophy after Spinal Cord Injury **Ashraf S. Gorgey,Virginia Commonwealth University , USA**
	Lunch Break: 1:00-2:00 @ hotel Restaurants
	**Major Sessions: chair : Tomasz Karski, Poland	co chair:Wael Abo El-Kheir, Egypt** **Physiotherapy Techniques and Exercises /Sports & Physiotherapy/Advancements in Physiotherapy/Manual Physiotherapies/Rehabilitation Methods**
02:00-02:20	Title: Novel Strategies for Battling Obesity and Reducing Cardiometabolic Disease Risk in Those with Paralysis **David R. Dolbow, University of Southern Mississippi, USA**
02:20-02:40	Title: School Physiotherapy Program: effects on the improvement of non-specific low back pain and postures adopted in adolescents **Beatriz Minghelli, Piaget Institute, Portugal**
02:40-03:00	Title: Thermobalancing therapy® and Dr Allen's Devices are an excellent physiotherapy tool for treating chronic conditions that cause pain and other troubling symptoms **Simon Allen, Fine Treatment, United kingdom**
03:00-03:20	Title: Immune responses following McKenzie lumbar spine exercise in individuals with acute low back pain : A preliminary study **Saud Al-Obaidi, Kuwait University, Kuwait**
03:20-03:40	Title: A Context-Aware, Multimedia, Multi-Modal, and Language Independent Big Data-Based Dyslexia Screening Framework with Auto-Grading Capability **Elham Hassanain,university of prince mugrin, Saudi Arabia**
03:40-04:00	Title: m-Therapy: A Multi-sensor Framework for in-home Therapy Management: A Therapy of Things Perspective **Mohamed Abdur Rahman,university of prince mugrin , Saudi Arabia**
04:00-04:20	Title: Physiotherapy project of the GP's cluster Model Program in Hungary **Ilona Veres-Balajti, University of Debrecen , Hungary**

60. Workshop Chair at 4th Euro-Global Physiotherapy congress 2017 to be held in Rome, Italy, December 7-8, 2017.

61. Invited Speaker at the 1st International Conference of Smart World 2017 (ICSW-2017) was held in Xi'an Qujiang International Conference Center, China during September 25-27, 2017.

62. Invited Poster Session Presentation in KAUST-NSF Environmental Monitoring Conference on 6th – 8th Nov 2017, Jeddah.
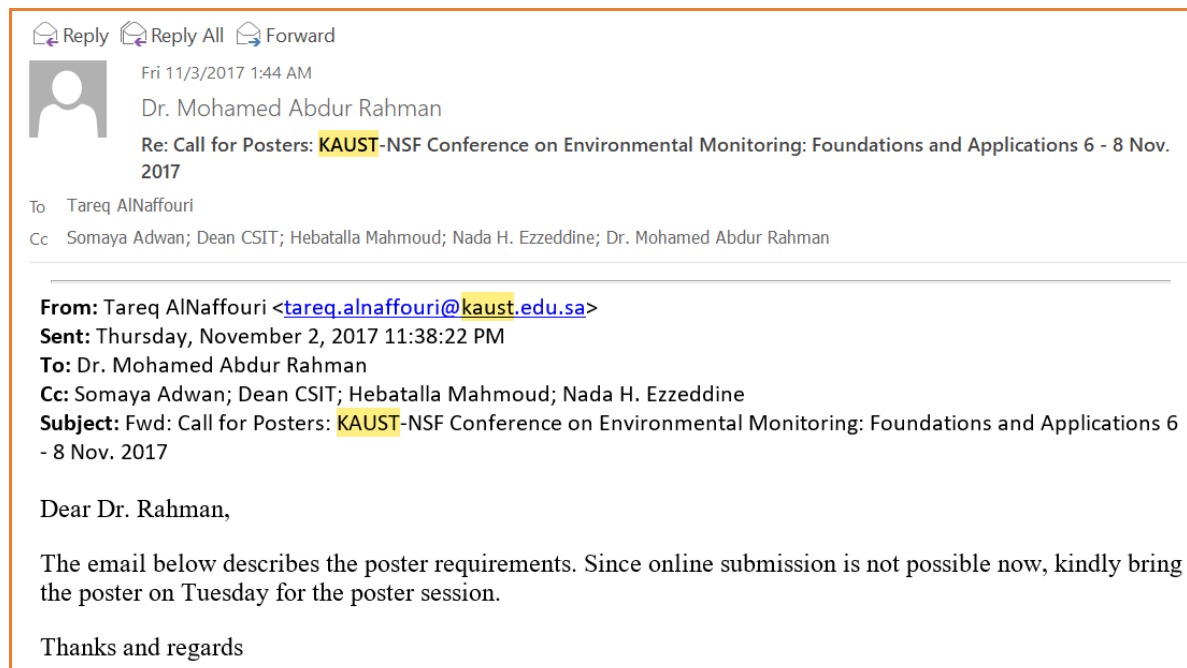
63. Invited Speaker at SCITA 2017 Conference, King Abdulaziz University, Jeddah from 27 to 29th November 2017.
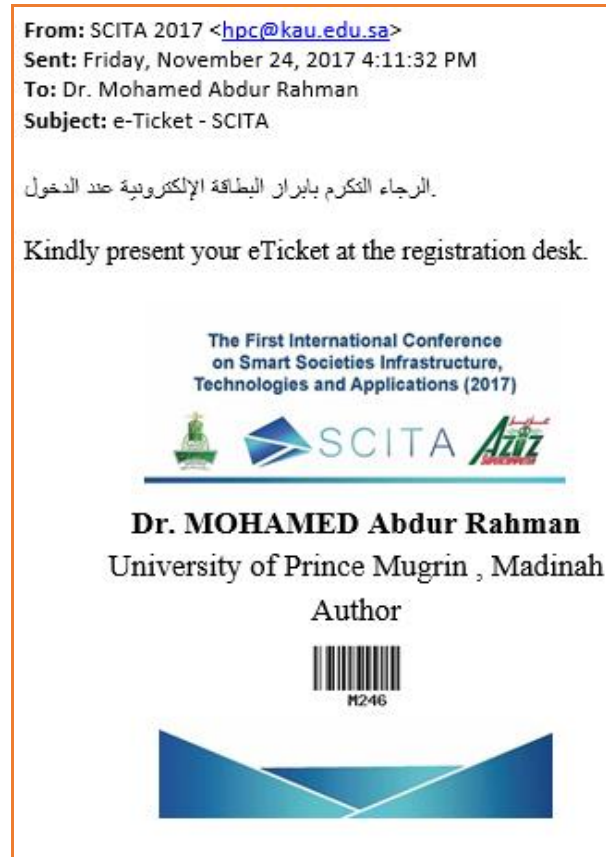
64. Invited Speaker at International Engineering Conference and Exhibition IECE in (Riyadh, Saudi Arabia) 4-7 December 2017.

07:30 AM - 09:00 AM	LOCATION	REGISTRATION			
		HALL 1	HALL 2	HALL 3	HALL 4
	Track Name	Project Management and Value Engineering	Structural and Mining Engineering and Geology	Computer & Communications Engineering	Renewable Energy
09:00 AM - 09:30 AM	Keynote Speaker	Mr. Mark Dickson President, Project Management Institute (PMI)	Professor David Nethercot Past Head of the Department of Civil and Environmental Engineering at Imperial College	H.E. Prof. Abdulaziz Al-Ruwais-Governor of telecommunications and information technology commission(CITC)	Eng. Ziyad Mohammed Al-Shiha, President and CEO of Saudi Electricity Company (SEC)
09:30 AM - 10:00 AM	BREAK				
10:00 AM - 11:00 AM	Topic1	Public Private Partnership (PPP)	Codes and Sustainability	Kingdom 2030 Vision for Telecommunications Development Transformation toward Support to Local Innovations, Initiatives and Regularity Plan	Energy Applications in Water Desalination
	Session Chair	Eng. Ahmed Bin Khalifa Al-Mulhim	Mohammed Bin Ahmed Alshankyty	H.E. Dr. Abdulrahman Alorainy - Strategic Consultant(ICT) and Ex. Minster's advisor and member of the board to serveral agencies	Eng. Bander Ahmed Allaf, CEO, Juffali Energy and Utilities
	Speaker Name 1	Mr. Javier Poveda, ARC	Prof. Omar Al-Amoudi, King Fahd University	Prof. Saad Bakry, King Saud University	Eng. Yousef AL-Sehli
	Paper Topic	Effective Strategies for Public Private Partnerships PPP, Case Study: PPP - Unsolicited Proposal (USP) in Healthcare Facilities Case Study: PPP - Unsolicited Proposal (USP)	Concrete in the Saudi Building Code: Comparison with ACI 318 to Produce Sustainable Structures	KSA Vision 2030 & International ICT Indicators: Toward an Integrated ICT Index	Development and Study of a New Cleaning and Cooling Mechanism for Photovoltaic Flat Panel Efficiency Improvement
	Speaker Name 2	Dr. Faisal Al-Sharif, Private sector	Eng. Saeed Kadasa, Ministry of Municipal and Rural Affairs	Dr.Mohamed Abdu Rahman	Prof. Noreddine Ghaffour, King Abdullah University of Science and Technology (KAUST)
	Paper Topic	Catalysts and Obesticals of PPP Project's Applications	Defining the Saudi Codes	Next Generation Hajj Experience in a Smart City: Vision 2030 Perspective	Integrated Renewable Energy-Driven and Energy-Efficient Innovative Desalination Technologies for Water Supply Sustainability

65. I organized a workshop at King Abdullah Medical City as general chair. The event took place on 3rd May 2015 at Makkah.

WORKSHOP on Innovation in e-Health 3rd May, 2015, King Abdullah Medeical City, Makkah Al Mukarramah, KSA

WORKSHOP DEMOS | SCHEDULE | SPEAKERS | REGISTER | VENUE | MANAGEMENT | GALLERY | DOWNLOAD

Management

Organizers | Organizing Committee | Sponsors | Logistic Support

WORKSHOP CHAIR

DR. FAHD M. ALDOSARI

DEAN, COLLEGE OF COMPUTER AND INFORMATION SYSTEMS, UMM AL-QURA UNIVERSITY, MAKKAH

GENERAL CHAIR

DR. MOHAMED ABDUR RAHMAN

COMPUTER SCIENCE DEPARTMENT, COLLEGE OF COMPUTER AND INFORMATION SYSTEMS, UQU

INDUSTRY RELATIONS

DR. ASAD H. TOONSI, FRCP

CONSULTANT, PEDIATRICIAN AND INFECTIOUS DISEASES, MATERNITY AND CHILDREN HOSPITAL, MAKKAH

ORGANIZATION CHAIR

DR. MOHAMED AHMED

COMPUTER SCIENCE DEPARTMENT, COLLEGE OF COMPUTER AND INFORMATION SYSTEMS, UQU
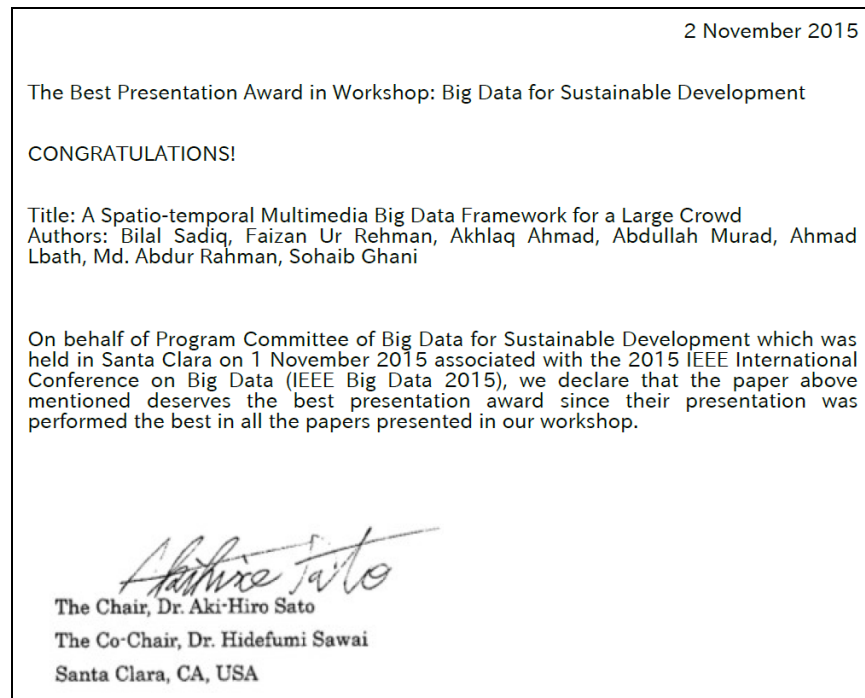
	UPM Startup	

I have established the **UPM startup** entitled "**Secure Smart Building Management System - SSBMS**" with the initial investment of **1M SAR** from external investor. Following are some other start-ups that I have been helping.

#	Title of the Start-up	Category
1	Design and Develop Natural User Interface-based next-generation in-home digital twin for therapy management System of old-age population	Health Technology
2	Life-SENSE: A Secure Occupational Therapy Framework for Monitoring and Improving Cancer Patients' Quality of Life	Health
3	Design and Develop a Proof of Location-Based Spatial Blockchain System for Land Registry Management Ecosystem in Saudi Arabia	Service
4	Blockchain-based Saudi Government and Educational Certificate Verification System	Education
5	The Potential Short- and Long-Term Disruptions and Transformative Impacts of B5G and 6G Wireless Networks: Preparing different Business Verticals and Telcos in Saudi Arabia to Support Vision 2030	Technology
6	A Digital, Secure, and Efficient Energy Ecosystem through Social Change	Service
7	TRACE: "Secure nexT geneRation self-manAged inter-ConnectEd mobility management System for the Holy City of Madinah Al Munawwarah"	Technology
8	Hajj Blockchain: Secure, Decentralized hajj & Umrah Event Management system	Service
9	Explainable AI (XAI) for doctor-machine teaming – Bringing trust, privacy, semantic interpretation, explainability and reasoning to Healthcare services	Health Technology
10	Industry 4.0-based Framework to Provide Context-Aware Sharing Economy Services in a Smart City	FinTech
11	TRAC3R (Tracer): Circular Economy for Digital TRaceability And Control in the Reduction, Reuse and Recycling by leveraging IoT for Industry 4.0	Industrial
12	Location-Aware Indoor and Outdoor Environment Sensing in two Holy Cities based on IoT, Blockchain, Real-time Database and Explainable AI	Technology
13	Transforming Insurance Settlements: Real-Time Processes through Blockchain, Internet of Things and Explainable AI	Service
14	Design and Develop AI and Blockchain-based automated, secure Will and Probate management system in Saudi Arabia	Service
15	Providing Back-office document management and data communication Security to Saudi Embassy and Consular Services around the globe	Technology
16	Secure, B5G Connected Drone swarm through AI-Powered Self-Organized Network	Technology
17	Design and Develop a Secure, Crowdsourced Proof-of-Location and Proof-of-Event Administered OpenStreetMap Database: Towards Developing an Accurate and Detailed Live Digital Road Network for the Holy City of Madinah	Technology

Awards

- Best Presentation Award at IEEE Big Data, 2015

2 November 2015

The Best Presentation Award in Workshop: Big Data for Sustainable Development

CONGRATULATIONS!

Title: A Spatio-temporal Multimedia Big Data Framework for a Large Crowd
Authors: Bilal Sadiq, Faizan Ur Rehman, Akhlaq Ahmad, Abdullah Murad, Ahmad Lbath, Md. Abdur Rahman, Sohaib Ghani

On behalf of Program Committee of Big Data for Sustainable Development which was held in Santa Clara on 1 November 2015 associated with the 2015 IEEE International Conference on Big Data (IEEE Big Data 2015), we declare that the paper above mentioned deserves the best presentation award since their presentation was performed the best in all the papers presented in our workshop.

The Chair, Dr. Aki-Hiro Sato

The Co-Chair, Dr. Hidefumi Sawai

Santa Clara, CA, USA

- Best Demo Award at ACM SIGSPATIAL 2014 Conference

- Best Paper Award at ICT4M 2014 Conference

- My Hajj and Umrah KACST funded project has been awarded by the Honorable Rector of Umm Al-Qura University and HE Prince Khalid Bin Faisal Bin Abdul Aziz Al-Saud, Governor of Makkah, Kingdom

سمو أمير منطقة مكة يدشن التطبيق الذكي للحج لجامعة أم القرى

https://uqu.edu.sa/news/ar/28342

- I finished 3 days professional training certification on "Put Generative AI To Work".

- I became ISACA Certified Information Systems Auditor (CISA).

- I became ISACA Certified Information Security Manager (CISM).

- I became certified ISO 27001:2022 Lead Auditor.

CERTIFICATE OF ACHIEVEMENT

Information Security Management System Auditor/ Lead Auditor

It is hereby certified that

MOHAMED ABDUR RAHMAN

has successfully completed and passed the examination for the
Information Security Management System Auditor / Lead Auditor Training Course
(ISO/IEC 27001:2022)
delivered by **Quality Austria Central Asia Pvt. Ltd.**
(Approved Training Partner ID: 6027922)

Course Dates : 28 May -01 June 2023

Certificate Number :ISMSLA/23/12/0092
UDN No.:488008

The course is certified by CQI-International Register of Certificated Auditors
CQI-IRCA Course No. 2546

Amit Patil
Head- Certification & Training
Date: 06 July 2023

Quality Austria Central Asia Pvt. Ltd.
www.qualityaustriacentralasia.com
The Certificate of Achievement is valid for five years from the last date
of course for the purpose of registration as an auditor with CQI-IRCA

QACA/TRG/F-13ARev02March2018

- I have received a professional certificate from Elsevier for contributing to the UN SDG in the following paper.

Congratulations

Md Abdur Rahman

For publishing an open access article with Elsevier between 2019–2021!

Your article was linked to the United Nations Sustainable Development Goals, helping to tackle some of the world's greatest challenges.

Thank you for your contribution to open science!

Dear Md Abdur Rahman,

As part of International Open Access Week 2022, we would like to celebrate the contribution you have made to open science.

At Elsevier, we believe that open science has the power to drive societal progress and advance the United Nations (UN) Sustainable Development Goals (SDGs). Making knowledge freely accessible to anyone, anywhere can play a fundamental role in achieving a sustainable and equitable future.

Between **2019–2021,** you published an open access article with Elsevier, receiving a total of **1,493** downloads. Your article was linked to the UN SDGs, helping to tackle some of the world's greatest challenges.

Your top downloaded open access article linked to the SDGs was:

Article	Downloads	Sustainable Developm
Current status and future perspectives on the Internet of Things in oncology	1,493	SDG 3: Ensure healthy lives and promote well-being for all at all ages SDG 7: Ensure access to affordable, reliable, sustainable, and modern energy for all

We wish you the best for your continued success.

Open. With you, for you.

- I became the Guest Editor of the Prestigious ACM Transactions on Internet Technology https://dl.acm.org/pb-assets/static_journal_pages/toit/pdf/ACM-TOIT-CfP-EdgeAIConnectedLiving-1586834694673.pdf
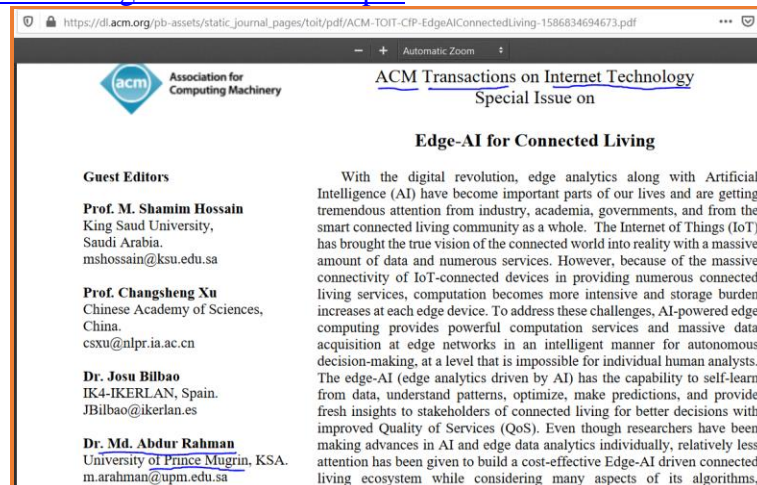
- I have received the following certificate for conducting a training session to medical doctors at Madinah Military Hospital in which I have trained the doctors how to use AI for COVID-19 diagnosis.

- I became the TPC member of THE FIFTH IEEE WORKSHOP ON 5G AND BEYOND WIRELESS SECURITY (5TH IEEE WIRELESS-SEC 2021) WS-04: The Fifth IEEE Workshop on 5G and Beyond Wireless Security (5th IEEE Wireless-Sec 2021) | IEEE Global Communications Conference - 2021 IEEE GLOBECOM (ieee-globecom.org).
- I became member of Scientific Committee of Fourth National Computing Colleges Conference (4th NCCC) to be held at Taif, Saudi Arabia, March 27-28, 2021. https://webapps.tu.edu.sa/TuNC4/
- I became member of Program Committee of 7th International Conference on Information and Communication Technologies for Ageing Well and e-Health (ICT4AWE 2021) to be held on 24-26 April, 2021 (http://www.ict4ageingwell.org/ProgramCommittee.aspx)
- I became member of Program Committee of 18th International Conference on Signal Processing and Multimedia Applications (http://www.sigmap.org/ProgramCommittee.aspx)
- Member of Editorial Board, Journal of College of Computer, and Information Systems, Umm Al Qura University, KSA, (2012-2016)
- Reviewer, Ministry of Higher Education, KSA (2012)
- Reviewer for the following transactions: IEEE COMMUNICATIONS MAGAZINE, IEEE TIM, ACM TOMCCAP, IEEE Sensors, Journal of Multimedia, Journal of MTAP, IEEE TITB, ACM ToIT.
- Reviewer for following conferences: ISSPA, WiCON, IEEE I2MTC, IEEE ICME.

Professional Courses and Certifications

Total Number of Cyber Security Related Certificates: **128**
Total Number of AI-Related Certificates:**45**

Areas in which I have obtained the certificates are following:

- COMPLIANCE and STANDARD - ISO 19011, ISO 27001, ISO 27005, ISO 27701 LEAD AUDITOR, CISv8, NIST 800-171
- CISSP Certification
- Industrial Security Auditor Certificate
- Network Security Certificates
- DRONE Programming
- Automobile Hacking
- Red Teaming Certificates
- Industrial Control Systems (ICS) / Operational Technology (OT) Security
- Ethical Hacking, Pen testing, & Bug bounty Related Certificates
- Threat Hunting – Security Operational Center Analyst
- ChatGPT Related Certificates
- Data Privacy Related Certificates
- Cloud and Network Security Certificates from Vendors
- Attack and Defense Related Certificates
- Community Services Related Certificates
- Certification for Contributing UN SDG from Elsevier
- Augmented Reality, Virtual Reality, Mixed Reality, Digital Twin and Metaverse Related Certificates
- Web Security Certificates
- DarkWeb Security and Cybercrime Analysis Certificates
- Security Incident Response
- Cyber and Network Security Hands-on Labs Related Certificates
- Artificial Intelligence for Cyber Security and Securing AI
- Offensive Security Certificates
- Cryptography Hands-on Certificate
- Blockchain Certificate
- Smartphone/Android Hacking Certificate
- Intrusion Detection System Related Certificate
- IOT Security Certificate
- Operating System Hardening and Security

All the certificates can be downloaded from the following link:
https://www.dropbox.com/scl/fi/h4sn676czoa325uitivk3/ALL-my-Certificates-August26-2023.pdf?rlkey=5jweavbic4j6o4qzw6yz0utq8&dl=0

T O 1: Smart Hajj (Hajj 2015)

Vi 1: Android based Smart Phone/tablet Application

https://play.google.com/store/apps/details?id=com.smarthajj&hl=en

- **iOS based smart phone/tablet Application**

T O 2: Family Connect (Hajj 2015)

Vi 2: Android based Smart Phone/tablet Application

https://play.google.com/store/apps/details?id=com.familyconnect&hl=en

- **iOS based smart phone/tablet Application**

T O 3: Hajj Messenger (Hajj 2015)

Vi 3: Android based Smart Phone/tablet Application

https://play.google.com/store/apps/details?id=com.familyconnect&hl=en

- **iOS based smart phone/tablet Application**

T O 4: Perform Hajj & Umrah (Hajj 2014)

Vi 4: Android based Smart Phone/tablet Application

https://play.google.com/store/apps/details?id=com.hajjandumrah&hl=en

- **iOS based smart phone/tablet Application**

https://itunes.apple.com/sa/app/perform-hajj-umrah/id917265874?mt=8

T O 5:   **Family Connect (Hajj 2014)**

    Vi 5:   **Android based Smart Phone/tablet Application**

https://play.google.com/store/apps/details?id=com.familyconnect.pro&hl=en
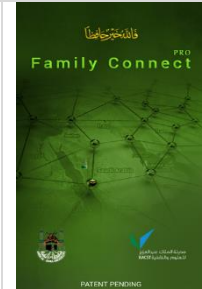
T O 6:   **Hajj Agency (to come)**

- **Android based Smart Phone/tablet Application**
- **iOS based Smart Phone/tablet Application**
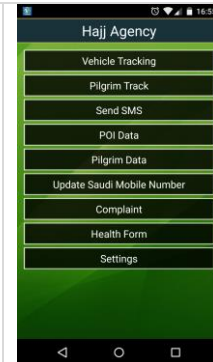
T O 7:   **Multimedia Diary (Hajj 2016)**

    Vi 6:   **Android based Smart Phone/tablet Application**
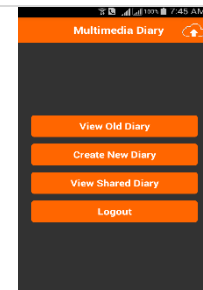
T O 8:   **Vehicle Connect (Hajj 2016)**

    Vi 7:   **Android based Smart Phone/tablet Application**

T O 9:   **Multimedia Routing (Hajj 2016)**

    Vi 8:   **Android based Smart Phone/tablet Application**
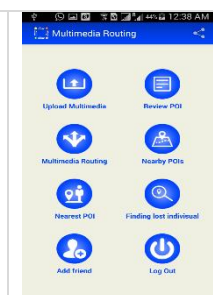
T O 10: Multimedia Diary (Hajj 2016)

Vi 9: Web Based Application for Multimedia Diary

T O 11: Web based Applications

- Web Based Application for Hajj & Umrah

  http://www.advancedmedialab.com/hajjumrah.html
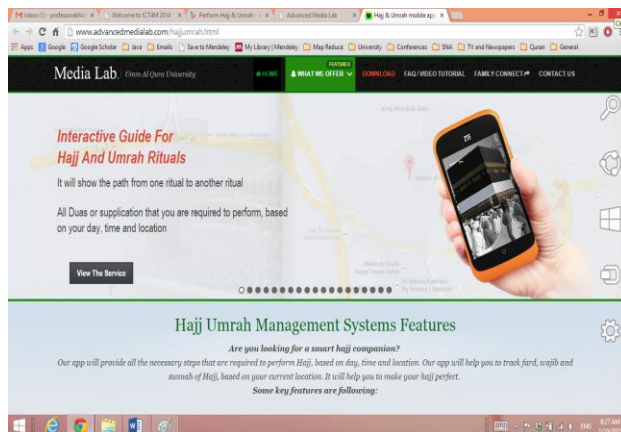
- Web based Application for Hajj Agency

  http://www.advancedmedialab.com/hajjagency.html
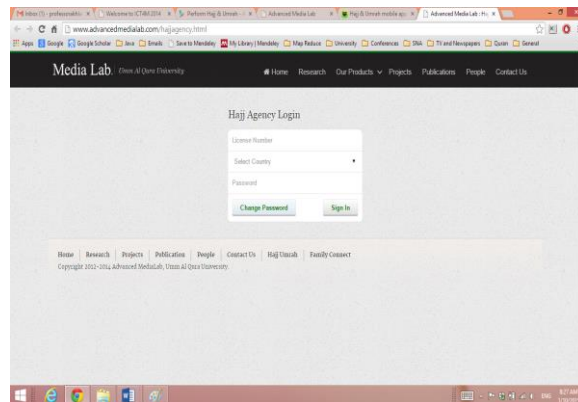
- Web based Application for Family Connect

  http://www.advancedmedialab.com/familyconnect.html
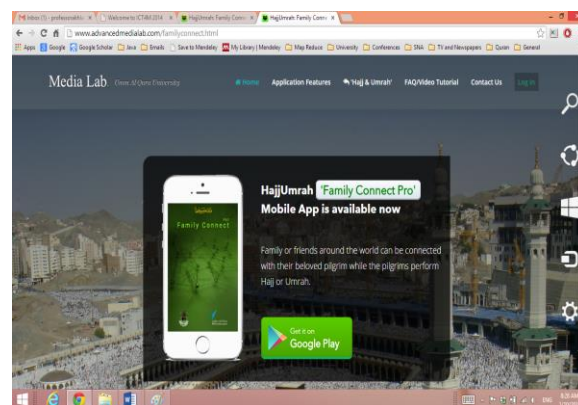
- Web based e-Therapy Application

  - http://advancedmedialab.com/e-health/
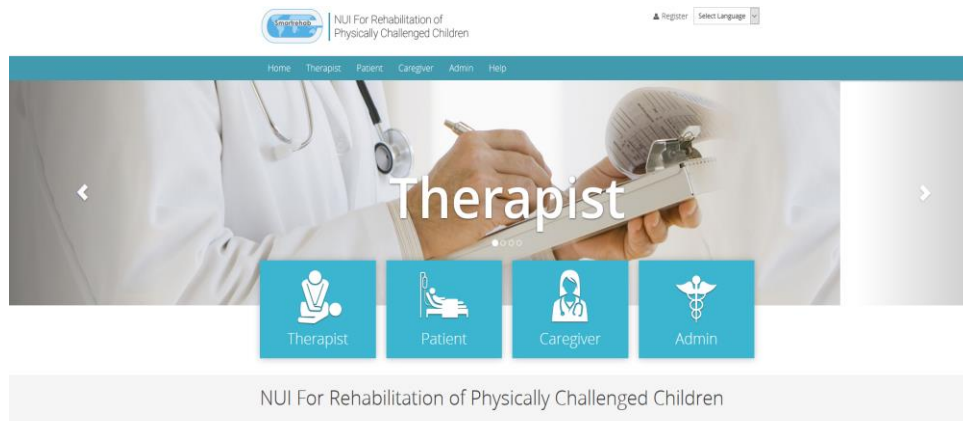
- Therapy Authoring to Create Customized and Personalized Therapies

(https://youtu.be/zDuk4yFiCrw)
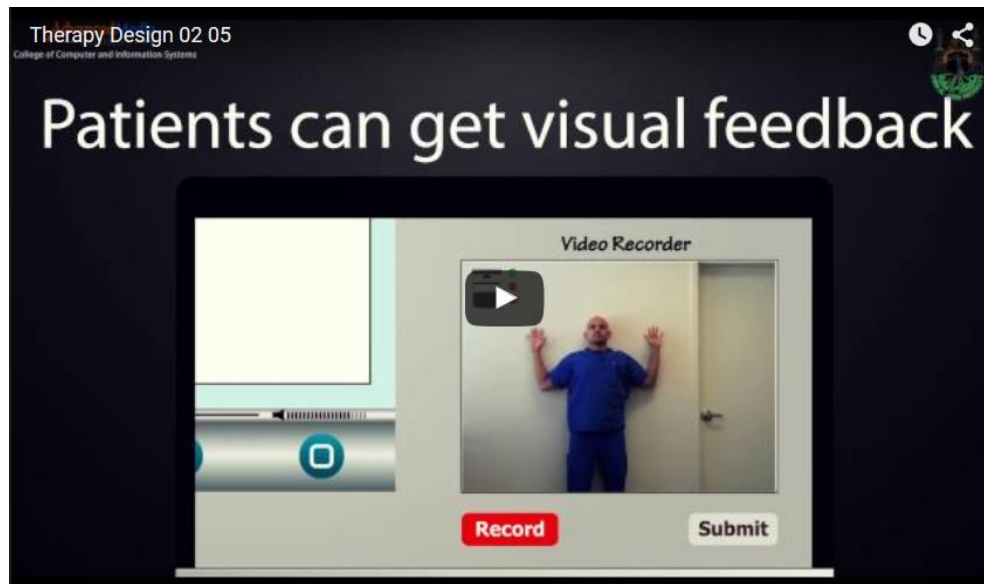
- Multi-Sensory Gesture Based Login for People with Special needs and Doctors in Clinical Environment

(https://youtu.be/cfMhgdB91ZY)
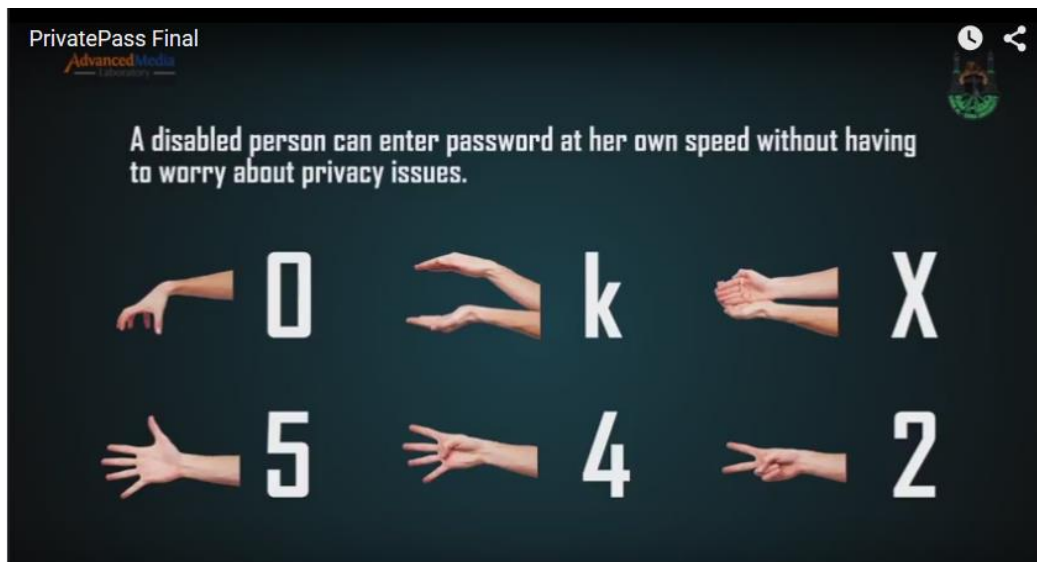
- Gesture based Serious Games for Physical Therapy

(https://youtu.be/ROecDwCLhKE)
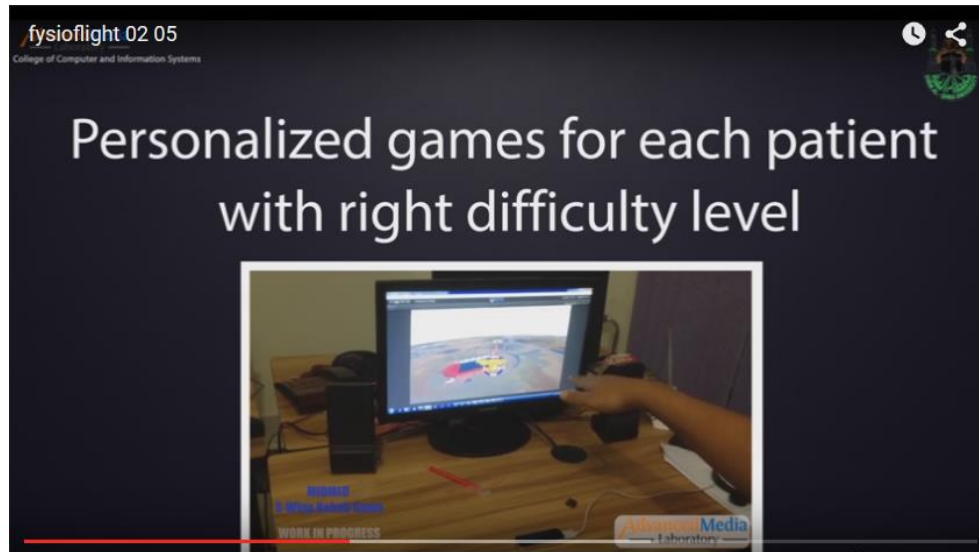
- Gesture based Clinical Data Browsing for Patients and Medical Doctors
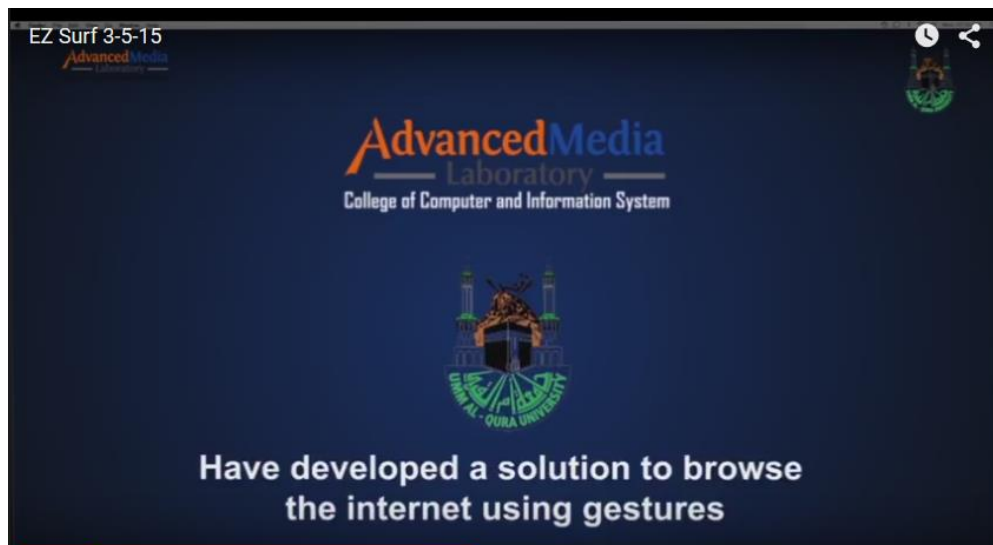
(https://youtu.be/N_WcXi4MVlk)

- Multimedia Big Data support of e-Health applications

(https://youtu.be/2HZp6XFSH7I)

- Recording, annotation and Playback of in-house multimedia therapy exercises with Kinect, Leap and Myo

(https://youtu.be/bzs2JtTS75Y)
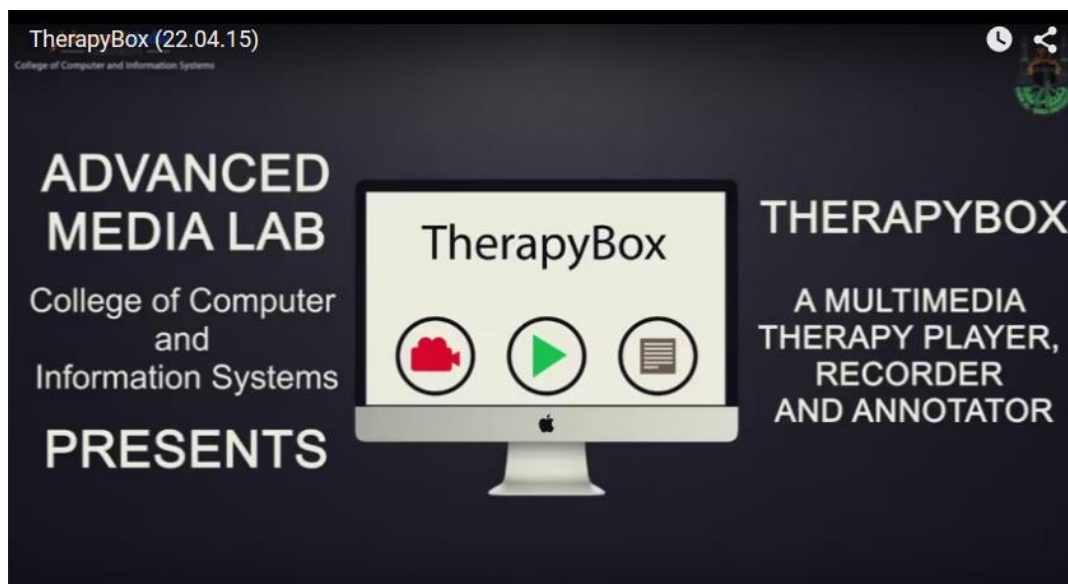
- Pilgrim e-Health Services

(https://youtu.be/FvBcyCNZPFk)

- Smart home appliance control using natural user interfaces: occupational therapy imperative
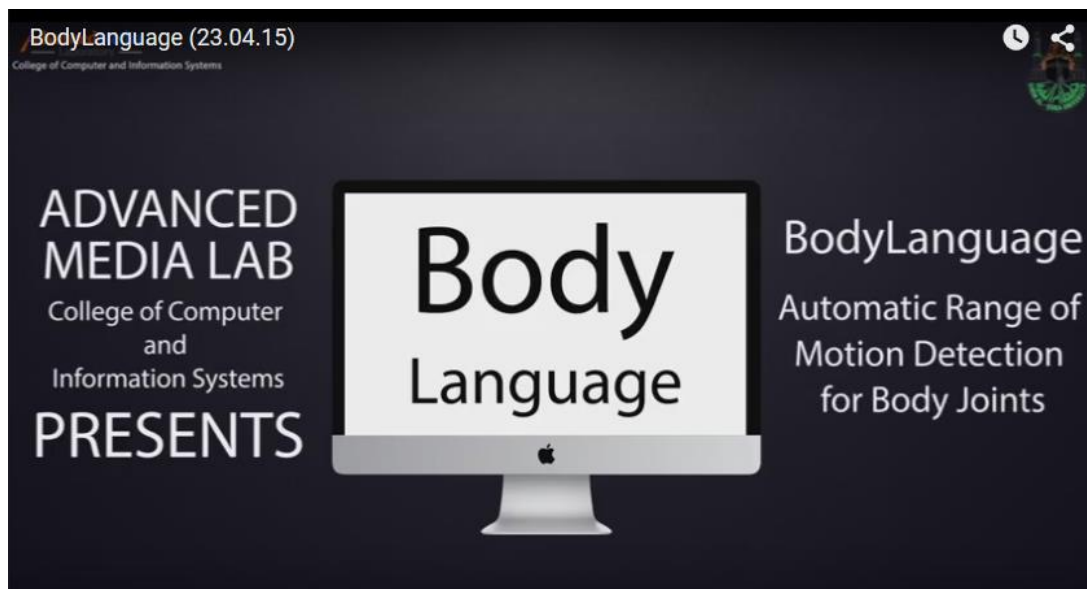

(https://youtu.be/5GAeP4DNbqc)
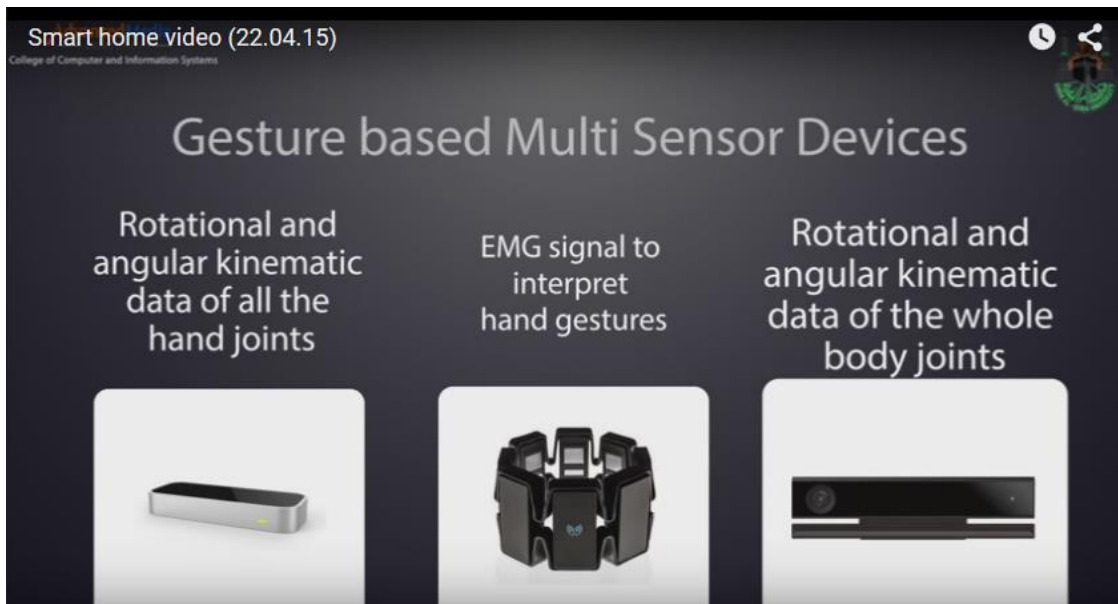
- Mapping Physical Human Joint-motion in Physical World with Virtual Reality 3D Skeleton Through Multi-Sensory Environment

(https://youtu.be/REcr6fThVu0)
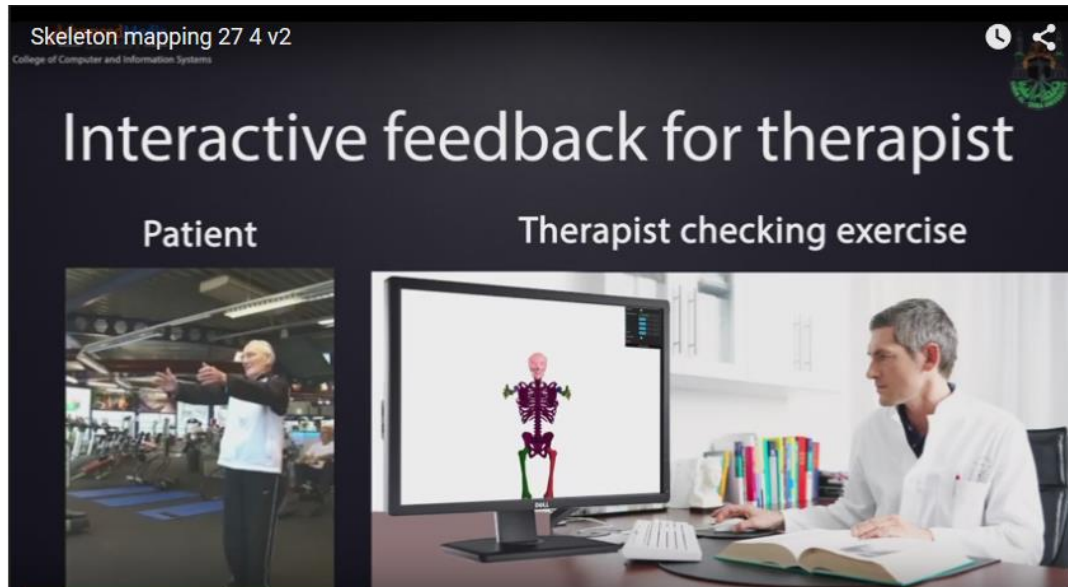
- Multi-sensory, Non-Invasive Whole-Body Range of Motion Detection for Quality of Improvement Measurement

(https://youtu.be/xRj518EPTH4)

- Gesture based map browsing for physically challenged

(https://youtu.be/olY9ZhVCpOE)