

**CURRICULUM VITAE
LUTFI AL-SHARIF**

January 2017

GENERAL PROFILE

An able academic with a balanced mix of academic, industrial, consulting and managerial experience of 30 years. Experience in the area of vertical transportation systems (elevators and escalators). Experience with the UK Metro Systems and high rise building design. Delivered many courses in the areas of vertical transportation systems, drives, instrumentation and process control. Extensive research in the area of vertical transportation system traffic design and its energy modelling. Other research interests include design of LVDT, remote laboratories, coordinate measuring machines, electromagnetic actuators and mechatronics education. Proven track record of running an engineering consultancy business for 10 years.



EDUCATION

Oct. 1992	Control Systems Centre/ UMIST/ Manchester. Ph.D. degree in the applications and use of simulation and neural networks in vertical transportation systems. Title of thesis: "Predictive Methods in Lift Traffic Analysis".
October 1990	Control Systems Centre/ UMIST/ Manchester. M.Sc. degree by research in "Remote Lift Monitoring" (Design of a real time control system based on 8086 microprocessor system using C++ and Assembler for Remote Lift Monitoring).
June 1987	Jordan University, Amman / Jordan. B.Sc. in Electrical Engineering, with Communication System specialisation (Grade: Very good 78%). Graduation project involved the design and testing of a digital speed controller for an induction motor.
June 1999	Post-Graduate Certificate in Data Communications, Brunel University
Oct. 1995	Post-Graduate Diploma in Business Administration (D.B.A.) at the University of Westminster/ London.

EMPLOYMENT

Sep 2006 – Date

Professor, The University of Jordan, Amman, Jordan

- a) Delivered various courses in the area of instrumentation and process control, mechatronics system design, power electronics, drive systems, modelling and simulation, control systems and stochastic modelling.
- b) Supervised around 100 graduation projects in the area of vertical transportation systems, as well as mechatronics and robotics.
- c) Research in the area of vertical transportation systems, coordinate measuring machines, LVDT and engineering education.
- d) Full responsibility for establishing and running the department, heading a team of lecturers and engineers.
- e) Department comprises around 500 undergraduate students.

Nov 2002 – Sep 2006

Director, Al-Sharif Vertical Transportation Consultancy Limited.

Running a Consultancy Business, providing consultancy services to clients in the railway and building industries in the United Kingdom, U.S.A., Germany, Denmark and India. Projects include:

- Developing of modelling software for whole life planning for lifts and escalators for London Underground.
- Intelligent braking system evaluation and testing for London Underground, Bank Station.
- Consultant for London Underground on the electrical design of lifts and escalators.
- Development of a weightless weight testing programme for Tyne & Wear Metro escalators.
- Oberoi Garden City, 50 storey residential Tower, Mumbai, India.
- Oberoi Commerical 2 South Tower, high rise office Tower, Mumbai India.
- Jordan Gate (Twin tower building Amman, Jordan)

- Tower 1B, Abdali Amman, Jordan (50 storeys).
- Kuwait Business City (50 storey office tower).
- Moscow Federation Tower, 88 storey building using Twin lifts (two lifts in the same shaft), Moscow.
- Burj Dubai, plots 37 and 38 Residential (55 Storeys): Concept to Detailed Design.
- Worli Tower, Mumbai, India (55 storey residential tower)
- West India Quay, London, 35 Storey building including hotel and residential. 1 Harstmere Road, London, UK.
- Larnaka Airport: Concept and detailed design.
- Copenhagen Concert Hall: Pedestrian Flow Analysis.
- Lift energy Consumption Modelling and Simulation for a Major U.S. lift company.
- Escalator Braking Management System for Tyne & Wear Metro, Newcastle, UK.
- Lift and Escalator Category 1 Standards for London Underground.
- Home Office New Accommodation in Marsham Street, London, UK.
- New York Metro Station Facility sizing analysis, New York Subway, U.S.A.

Sep 2001 – Oct 2002

Associate Director, Buildings Transportation, WSP Group.

Vertical Transportation consultant, covering areas of traffic analysis, pedestrian circulation analysis, specification and tender documentation preparation and controller design. Projects to date:

- Busan Tower, Korea (120 storey tower).
- New Arsenal Stadium, London, UK.
- Craven Cottage Development, Fulham, London, UK.
- Thameslink 2000 St. Pancras Underground Station, London, UK.
- New Centre for Auditory Research, UCL, London, UK.
- National Space Centre, Leicester, UK.
- New Royal Bank of Scotland Headquarters, Gogarburn, Scotland, UK.
- Shires Shopping Centre (Due diligence survey), Leicester, UK.
- Heathrow, Terminal 5 CIP Lounge lifts traffic analysis for BA.
- Incident investigation for Tyne & Wear Metro, Newcastle, UK.
- Queen Mary School of Medicine and Dentistry, London, UK
- Electrical Controller design for Tottenham Court Road, London Underground, London, UK.

July 1998 – Aug 2001

Delivery Manager (Lifts & Escalators/ Electromechanical), Stations, London Underground.

Heading a business unit of 60 engineers and administrators in the Station Systems Consultancy, who prepare specifications and manage replacement and refurbishment project on London Underground stations. The section turnover £1,500,000 in professional fees. Responsibilities included:

- *Full accountability for the running of business unit, including human resource and workload planning, training, licensing, health and safety and customer relations.*
- *Carrying out feasibility studies, and business case analysis.*
- *Ensuring compliance with British and European standards and HMRI requirements.*
- *Achieving ISO 9001 compliance for the Lift & Escalator section.*

June 1998 - June 1999

Senior Station Modeller, London Underground Ltd.: Senior modeller for the Whole Life Asset (WLAP) Plans for stations. This involved

heading a team of spreadsheet modellers, building spreadsheet models for station assets in five areas: Station Premises, Lifts and Escalators, M&E, Fire systems and Communication systems. The work culminated in developing Whole Life Asset Plans for the five asset areas which went into the PPP data room for the bidders to use for the privatisation process.

- June 1995- May 1998** **Team Leader (Lift & Electrical Projects), London Underground Ltd.:** Heading a team of 5 engineers, who solve technical problems, write specifications and provide technical support to refurbishment and replacement projects for lifts and escalators. Responsibility for setting targets, appraising performance, recruitment and resourcing the team.
- Nov 1992-June 1995** **Senior Electrical Engineer (Lifts & Escalators)** in the Chief Engineer's Department, **London Underground Ltd.**
- Oct 1989-Oct 1992** **C++ Real Time Software Programmer**, Intelev Ltd., Bolton, U.K.
- Jun 1985 - Sept 1989** **Electronic design engineer and Head of Electrical Department**, at the **Jordan Lift & Crane Manufacturing**, Madaba, Jordan.

TRAINING COURSES GIVEN

Prepared the material and presented a number of training courses:

1. One day tutorial on vertical transportation systems, Hong Kong, 11th October 2004.
2. One Day "Elevate" Training Course, Arup Engineering Consultants, Hong Kong 14th October 2004.
3. Two day course, "Escalators: Standards, Engineering, Human Factors and Planning", London, United Kingdom, 13th, 14th April 2005.
4. Two day course, "Escalators: Standards, Engineering, Human Factors and Planning", London, United Kingdom, 17th, 18th, May 2005.
5. Five day course entitled "Practical Process Control for Engineers & Technicians", 11th to 15th January 2009, Dubai, UAE.
6. One day special course on "Braking Systems for Escalators" delivered to Metronet Rail Ltd, Tube Lines and London Underground in London, United Kingdom, 28th January 2009.
7. Three day course, "Introduction to Vertical Transportation Systems", Industrial and Vocational Training Board, Mauritius Government, Mauritius, 20th to 22nd May 2009.
8. One day special training course on "Braking Systems for Escalators" delivered to London Underground in London, United Kingdom, 12th October 2009.
9. One day special training course on "Escalator Control Systems" delivered to London Underground in London, United Kingdom, 13th October 2009.
10. One day special training course on "Escalator Control Systems" delivered to Tube Lines Ltd. in London, United Kingdom, 30th November 2009.
11. Vertical Transportation Systems course, delivered in Amman, Jordan for the Jordan Engineers Association (30 hours), 28th March 2010 – 10th April 2010.
12. Two day training course, "Escalators: Standards, Engineering, Human Factors and Planning", 14th and 15th February 2011, delivered to the Mauritius Industrial Training and Development Board, Government of Mauritius, Mauritius.

13. Three day training course, "Instrumentation and Process Control", 16th, 17th and 18th February 2011, delivered to the Mauritius Industrial Training and Development Board, Government of Mauritius, Mauritius.

Memberships, Standards and Technical Activities

Author of Mechatronics Module for the Saylor Foundation, USA (<http://www.saylor.org/team/>)

You Tube Channel containing course lectures with 2.3 million views and 18,000 subscribers.

Member of European escalator standard (EN115) electrical risk assessment committee, United Kingdom.

Member of the panel redrafting Safe Working on Escalators standard (BS 7801).

Member of the British Standards Institution subcommittee on mechanical handling equipment, MHE4/3/2

Former Vice Chairman of the CIBSE lift group, UK.

Former member of the Executive Team of the Building Electrical Technology Professional Network of the IET (formerly IEE).

Corporate Member of the IET and Chartered Electrical Engineer.

External examiner for Ph.D. viva at Brunel University (Richard Peters), London, United Kingdom, January 1998.

External examiner for Ph.D. viva at Aalto University (Juha-Matti Kuusinen), Finland, May 2015.

INVITED SPEECHES AND LECTURES

1. Invited keynote speaker at the CIBSE Guide D one day symposium, Hong Kong, 24th August 2012.
2. Invited speaker at the 1st Symposium of lift and escalator technologies, "The Use of Monte Carlo Simulation to Evaluate the Passenger Average Travelling Time under Up-Peak Traffic Conditions", 29th September 2011, University of Northampton.
3. Invited speaker, "Topics in Escalator Step Design and Testing", presented at the Carlo Distaso Memorial Lectures, Milan, Italy, 23rd November 2000. (*Reprinted in: Elevatori [in English & Italian], January/February 2001.*)
4. Invited keynote speaker at the first international conference on building electrical technology (Hong Kong 13th October 2004).
5. Invited lecturer at University of Northampton, "Passenger Behaviour, Accidents & Design", United Kingdom, 28th January 2005.
6. Invited keynote speaker at the second international conference on building electrical technology (Kuala Lumpur, Malaysia, 1st November 2006).
7. Invited speaker by the A/E Business Council on the topic of Vertical Transportation Systems, Amman, Jordan, 24th March 2008.
8. Invited speaker by the Jordan Engineers Association, "Modern Assessment Parameters for elevator systems", Electrical Considerations for High Rise Buildings, one day symposium, 30th October 2010, Amman, Jordan.
9. Invited lecture to Jordan Engineers Association, "Introduction to Variable Speed Drive Systems", 2nd March 2011, Amman, Jordan.
10. Invited Speaker, "Introduction to Vertical Transportation systems", Project Management Institute, Jordan Chapter, 22nd January 2011, Amman, Jordan.
11. Keynote speaker, International Symposium on Mechatronics and its Applications (ISMA '13), Amman, Jordan, 10th April 2013. Title: "Future Trends in Elevators: 2D Elevator Systems".

CONFERENCES ORGANISED

1. Member of the Steering Committee for the 7th Jordanian International Mechanical Engineering Conference (JIMEC'7) held in Amman/Jordan 27th to 29th September 2010, in Hyat Amman Hotel.
2. Member of the Steering Committee for the one day workshop: "Prospects of Engineering Education", held at the Faculty of Engineering & Technology, 3rd May 2011, Amman, Jordan.

AREAS OF TECHNICAL EXPERIENCE

- Design of vertical transportation systems for high rise buildings, shopping centres, hospital and hotels.
- Traffic calculations for elevators and escalators in buildings.
- Practical experience in the use of the G5/4 standard in assessing drive compliance with harmonic distortion requirements especially in railway environments.
- Analogue and digital system design of elevator variable speed controllers and logic controllers. Experience in real time applications such as elevator remote monitoring.
- Energy modelling for elevators and escalators.
- Sizing and selection of elevators and escalator motors.
- Statutory inspections for elevators and escalators.
- The use of Non-Destructive Testing (NDT) in preventative maintenance management.
- AC and DC motor modelling and testing (testing of motors for railway applications).

AREAS OF MANAGERIAL EXPERIENCE

- Developing an organisational structure and resourcing it by recruitment for a medium size business unit.
- Business case analysis for projects and the ability to use the cost-benefit analysis methodology for public sector projects.
- Internal verifier (D34) of an NVQ (National Vocational Qualification) centre for a maintenance unit within London Underground.
- Development of a licensing system to demonstrate the on-going competence of consultant engineers within London Underground.

MAJOR ACHIEVEMENTS

Technical	Tested and evaluated the first ever intelligent braking systems (hydraulic and electrically based) for London Underground, UK.
	Developed the first and only generalised theory on Escalator Energy consumption, with full theoretical background, calculations and examples
	Conceived and developed the first ever Elevator Energy Consumption Model (Simulation and Analysis)
	Co-inventor of three patents of energy system products for elevator systems
	Designed and implemented a close loop DC field control system for escalators on the Central Line at London Underground to overcome the effect of the new regenerative rolling stock (system still in operation today).
	Design of vertical transportation systems for an 88 floor tower in Moscow and a 60 storey tower in Kuwait and first high rise complex in Amman, Jordan (Jordan Gate).
Managerial	Implemented ISO9001 quality system for a medium size consultancy business
	Conceived and implemented an asset management model for the elevators and escalator assets for London Underground, two models developed: one in 1998, the second in 2010.
	Established an engineering business consultancy and ran it for 3.5 years, with growth rates of around 50% per annum.
Academic	Developed and expanded the Department of Mechatronics Engineering at the University of Jordan as Head of Department, September 2008 to date.

LANGUAGES

Fluency in Arabic & English. Basic command of French.

BOOKS

Elevator Traffic Handbook: Theory & Practice, 2nd Edition, G Barney & Lutfi Al-Sharif, Routledge/Taylor & Francis, September 2015.

PUBLISHED PAPERS IN PEER REVIEWED JOURNALS

1. L. Al-Sharif, S. Taifour, M. I. Kilani, "Simulation and Verification of the Axial Force of a Linear Permanent Magnet Synchronous Actuator," International Journal of Applied Electromagnetics and Mechanics (Publisher: IOS Press) Volume 32, Number 4 (2010), pp 249-265.
2. Lutfi Al-Sharif, "The effect of multiple entrances on the elevator round trip time under up-peak traffic", *Mathematical and Computer Modelling* 52(3-4):545-555 (2010).
3. Lutfi Al-Sharif, Christopher Seeley, "The effect of the building population and the number of floors on the vertical transportation design of low and medium rise buildings", BUILDING SERV ENG RES TECHNOL, August 2010 vol. 31 no. 3, pp 207-220, doi: 10.1177/0143624410364075.
4. Lutfi Al-Sharif, "Modelling of Escalator Energy Consumption", Energy & Buildings (Publisher: Elsevier), February 2011, 43, 6 (2011) 1382-1391.
5. Al-Sharif, Hussam Dahyat, Laith Al-Kurdi, " The use of Monte Carlo Simulation in the calculation of the elevator round trip time under up-peak conditions", *Building Services Engineering Research and Technology*, volume 33, issue 3 (2012) pp. 319–338, doi:10.1177/0143624411414837.
6. Lutfi Al-Sharif, Ahmad M. Abu Alqumsan, Osama F. Abdel Aal, "Automated optimal design methodology of elevator systems using rules and graphical methods (the *HARint* plane)", vol. 34 no. 3 pp 275-293, Published online before print April 12, 2012, doi: 10.1177/0143624412441615 BUILDING SERV ENG RES TECHNOL April 12, 2012 0143624412441615.
7. Lutfi Al-Sharif, Mohammad H Dado, Nadine Habash, Zeina El Rawashdeh, and Ala'a Al-Shubbak, "Modeling and verification of the kinematics of passenger falls on escalators" *SIMULATION: Transactions of the Society for Modeling and Simulation International* 0037549712436433, Volume 88, Issue 8, pp 988–998, first published online on February 21, 2012 as doi:10.1177/0037549712436433.
8. A. Saleem, T. Tutunji, L. Al-Sharif, "Mechatronic system design course for undergraduate programmes", European Journal of Engineering Education, DOI 10.1080/03043797.2011.593094, volume 36, issue 4, 2011, pages 341-356, available online: 22 Jul 2011.
9. Lutfi Al-Sharif, Ahmad M. Abu Alqumsan, Rasha Khaleel, "Derivation of a Universal Elevator Round Trip Time Formula under Incoming Traffic with Stepwise Verification", Building Services Engineering Research and Technology, 2014, Vol. 35 issue 2, pp 198–213, doi 0143624413481685.
10. Lutfi Al-Sharif, Ahmad Hammoudeh, "Evaluating the Elevator Round Trip Time for Multiple Entrances and Incoming Traffic Conditions using Markov Chain Monte Carlo", International Journal of Industrial and Systems Engineering (IJISE), Inderscience Publishers, 2014 Vol.18, No.1, pp. 51 – 64, DOI: 10.1504/IJISE.2014.064340.
11. Lutfi Al-Sharif, Mohamed D Al-Adhem, "The Current Practice of Lift Traffic Design Using Calculation and Simulation", Building Services Engineering Research and Technology, July 2014 Volume 35, issue 4, pp 438-445, published online before print, 26th September 2013 as doi:10.1177/0143624413504422.
12. L Al-Sharif, HS Algzawi, AT Hammodeh, "The Use of the Markov Chain Monte Carlo Method in Deriving the Elevator Round Trip Time under Incoming Traffic Conditions and a Single

Entrance”, Advanced Modeling and Optimization, September 2013, volume 15, issue 3, pp 689-695.

13. Mohammad KILANI, Sinan TAIFOUR, Lutfi AL-SHARIF, “Effect of Design Geometry on the Performance Characteristics of Linear Variable Differential Transformers”, Sensors and Transducers, Vol. 150, No. 3, pp. 66-71, 2013.
14. Lutfi Al-Sharif , Osama F. Abdel Aal, Ahmad M. Abu Alqumsan, Mohammad A. Abuzayyad, “The *HARint* Space: A Methodology for Compliant Elevator Traffic Designs”, Building Services Engineering Research and Technology, January 2015, Volume 36, Number 1, pages 34-50, first published online June 20, 2014, doi: 0143624414539968.
15. Lutfi Al-Sharif and Ahmad M Abu Alqumsan, “Stepwise derivation and verification of a universal elevator round trip time formula for general traffic conditions”, Building Services Engineering Research & Technology, July 2014, first published online 9th July 2014 as doi:10.1177/0143624414542111.
16. Lutfi Al-Sharif, Jamal Hamdan, Mohamed Hussein, Zaid Jaber, Moh’d Malak, Anas Riyal, Mohammad AlShawabkeh, Daoud Tuffaha, “Establishing the Upper Performance Limit of Destination Elevator Group Control Using Idealised Optimal Benchmarks (*IOB*)”, Building Services Engineering Research & Technology, January 2015, first published online on 13th January 2015 as doi:10.1177/0143624414566996.
17. Albert So, Lutfi Al-Sharif, Ahmad Hammoudeh, “Traffic analysis of a simplified two-dimensional elevator system”, Building Services Engineering Research and Technology. 2015; 36(5): 567-579. doi:10.1177/0143624414568728.
18. Albert So, Lutfi Al-Sharif, Ahmad Hammoudeh, “Concept design and derivation of the round trip time for a general two-dimensional elevator traffic system”, Journal of Building Engineering. 2016; 5(2016): 165-177.

PATENTS

1. US Patent no. 2010/0000825 A1, “Elevator System to maintain functionality during a power failure”, Rory Smith, Richard Peters, Lutfi Al-Sharif, 7th January 2010.
2. US Patent no. 7,540,356 B2, “Method and apparatus to prevent or minimise the entrapment of passengers during a power failure”, Rory Smith, Richard Peters, Lutfi Al-Sharif, 2nd June 2009.
3. US Patent no. 7,374,020 B2, “Energy Efficient Elevator System”, Rory Smith, Richard Peters, Lutfi Al-Sharif, 20th May 2008.
4. US Patent no. 2005/0189180 A1, “Method and apparatus for reducing the energy consumption of elevators equipped with SCR drives”, Rory Smith, Richard Peters, Lutfi Al-Sharif, 1st September 2005.

BOOKS

1. “Elevator Traffic Handbook: Theory and Practice”, co-author, Routledge, second edition, 2016.
2. Lutfi Al-Sharif *et al*, “Linear Variable Differential Transformer Design and Verification Using MATLAB and Finite Element Analysis”, in the book “MATLAB for Engineers - Applications in Control, Electrical Engineering, IT and Robotics”, published by Intech, October 13, 2011 under CC BY 3.0 license, in subject Computer Science and Engineering, doi: 10.5772/1533.

EDUCATIONAL MATERIAL

1. Author of electronic material for Measurements & Transducers course.
2. Author of electronic material for Mechatronics System Design course.

3. Author of electronic material for Variable Speed Drives course.
4. Author of electronic material for Vertical Transportation Systems course.
5. Author of textbook on variable speed drives in elevator systems for an MSc distance learning course.
6. Author of three sections in the second and third editions of the Chartered Institute of Building Services Engineers (CIBSE) Guide D on Vertical Transportation Systems, United Kingdom.

CONFERENCES

1. Lutfi Al-Sharif, "Electrical Noise Control Techniques in Elevator Controllers", Elevator Technology 3, Proceedings of the International Conference on Elevator Technology (Elevcon '90), Rome, Italy, March 1990.
2. Lutfi Al-Sharif, "Memory Requirements in the Design of Remote Lift Monitoring Outstations", Dr. Lutfi Al-Sharif, interlift '91, Proceedings of the International Convention for Elevator Technology, 23-24 September 1991, Munich, Germany. (*Reprinted in: Lift Report [in English & German], November/December 1991.*)
3. Lutfi Al-Sharif, "New Concepts in Lift Traffic Analysis: The Inverse S-P (I-S-P) Method", Lift Report, Elevator Technology 4, Proceedings of the International Conference of Elevator Technology (Elevcon '92), Amsterdam, The Netherlands, May 1992.
4. Lutfi Al-Sharif, "Bunching in Lift Systems", Elevator Technology 5, Proceedings of the International Conference on Elevator Technology (Elevcon '93), November 1993, Vienna, Austria.
5. Lutfi Al-Sharif, "Topics in Escalator Electrical Design", Elevator Technology 6, Proceedings of the International Conference on Elevator Technology (Elevcon '95), March 1995, Hong Kong.
6. Lutfi Al-Sharif, "Lift & Escalator Energy Consumption", Proceedings of the CIBSE/ASHRAE Joint National Conference, Harrogate, UK, 29 Sept. - 1 Oct. 1996, (pages 231-239, Volume I).
7. Lutfi Al-Sharif, "Escalator Passenger Numbers from Energy Consumption", Elevator Technology 7, Proceedings of the International Conference on Elevator Technology (Elevcon '96), October 1996, Barcelona, Spain.
8. Lutfi Al-Sharif, "Asset Management of Public Service Escalators", Elevator Technology 9, Proceedings of the International Conference on Elevator Technology (Elevcon '98) Zurich, Switzerland, October 1998. (*Reprinted in: Elevator World, June 1999 (page 96).*)
9. Lutfi Al-Sharif, "Introduction to Electric Shock Protection", Elevator Technology 10, Proceedings of the International Conference on Elevator Technology (Elevcon 2000), May 2000, Berlin, Germany. (*Reprinted in: Lift Report [in English & German], March/April 2001 & Elevator World, July 2001 (page 110-115).*)
10. Lutfi Al-Sharif, "Lift Safety Gear Testing without Weights: a Critique and Overview", Proceedings of the 12th International Conference on Elevator Technologies, Elevcon 2002, Milan, Italy, June 2002. (*Reprinted in: Lift Report and Elevator World.*)
11. Lutfi Al-Sharif, Richard Peters, Rory Smith, "Lift Energy Consumption: Modelling and Simulation", CIBSE Lift Group Annual Conference, November 2003, Balham, London, United Kingdom.
12. Lutfi Al-Sharif, "Lift Energy Consumption: General Overview (1974-2001)", Proceedings of the International Conference on Elevator Technologies, Elevcon 2002, April 2004, Istanbul, Turkey. (*Reprinted in: Elevator World October 2004*)

13. Lutfi Al-Sharif, Richard Peters, Rory Smith, "Elevator Energy Simulation Model", Proceedings of the International Conference on Elevator Technologies, Elevcon 2004, April 2004, Istanbul, Turkey. (*Reprinted in: Elevator World* November 2004.)
14. Lutfi Al-Sharif, "Intelligent Braking Systems for Public Service Escalators", Proceedings of the 1st International Conference Building Electrical Technology Professional Network (BETNET) Conference, BETNET 2004, October 2004, Hong Kong, China.
15. Lutfi Al-Sharif, "Escalator Human Factors: Passenger Behaviour, Accidents & Design", Proceedings of the 2nd International Conference on Building Electrical Technology, Kuala Lumpur, Malaysia, October 2006.
16. Lutfi Al-Sharif, "Experimental Investigation into the Relationship between Passenger Comfort on a Stopping Escalator and the Kinematics of the Stop", Proceedings of the 6th Jordanian International Mechanical Engineering Conference (JIMEC'6), 22nd – 24th October 2007, Amman, Jordan.
17. Lutfi Al-Sharif, "Experimental Investigation into the Effect of Mechanical Design of an Escalator and Passenger Loading on its Energy Consumption", International Conference on Mechanical Engineering 2008 (ICME08) part of World Congress on Engineering 2008 (WCE08), 2nd to 4th July 2008, Imperial College, London.
18. Sinan Taifour, Lutfi Al-Sharif, Mohammad Kilani, "Modelling & Design of a Linear Variable Differential Transformer", presented at MS'08 Jordan, The International Conference on Modelling And Simulation, Petra, Jordan, 18th -20th November, 2008.
19. Lutfi Al-Sharif, Sinan Taifour, Mohammad Kilani, "Simulation and Experimental Verification of the Axial Force of a Tubular Electromagnet on a Concentric Cylindrical Permanent Magnet", Proceedings of the 3rd International Conference on Modeling, Simulation, and Applied Optimization (ICMSAO'09), Sharjah, U.A.E. January 20-22, 2009.
20. Lutfi Al-Sharif, "Twenty Engineering Principles for Mechatronics Undergraduate Students", Proceedings of the 7th International Symposium on Mechatronics and its Applications (ISMA '10), 20th to 22nd April 2010, Sharjah, UAE.
21. L. Al-Sharif, A. Saleem, T. A. Tutunji, "Mechatronic System Design: The Ideal Capstone Course", Proceedings of the 7th International Symposium on Mechatronics and its Applications (ISMA '10), 20th to 22nd April 2010, Sharjah, UAE.
22. Lutfi Al-Sharif, "Electrically Based Intelligent Escalator Braking Systems", Proceedings 18th International Congress on Vertical Transportation Technologies (Elevcon 2010), 2nd to 4th June 2010, Lucerne, Switzerland.
23. Lutfi Al-Sharif, "Three Dimensional Scanner using Laser Triangulation Technology", 23rd Canadian Conference on Applied Mechanics, 6th – 8th June 2011, University of British Columbia, Vancouver, Canada.
24. O. Aljnaideh, M. Al Janaideh, Lutfi Al-Sharif, A. ElShaer, "Control of Hysteretic Smart Actuators", 23rd Canadian Conference on Applied Mechanics, 6th – 8th June 2011, University of British Columbia, Vancouver, Canada.
25. Lutfi Al-Sharif, Mohamed Al-Adhem, "Overview & Comparison of Four Methods of Elevator Traffic Analysis & Design", Elevator World Virtual Elevator Event 2012, 11th July 2012.
26. Lutfi Al-Sharif, Husam M. Aldahiyat, Laith M. Alkurdi, Mohamed Al-Adhem, "Evaluating the Elevator Round Trip Time under Up-Peak Traffic Conditions using the Monte Carlo Simulation Method", in Elevator Technology 19 (pp 166-177), Proceeding of the 19th Congress on Elevator Technologies, Elevcon 2012, 22nd to 24th May 2012, Miami, Florida, USA.

27. L. Al-Sharif, Osama F. Abdel Aal, M. A. Abuzayyad, A. M. Abu Alqumsan, "Converting the User Requirements into an Elevator Traffic Design: The HARint Space", The 3rd Symposium on Lift and Escalator Technologies, 26th-27th September 2013, The University of Northampton, Northampton, United Kingdom.
28. R. Khaleel, L. Al-Sharif, M. Salahat, "Derivation of an Elevator Round Trip Time Formula Under Up-Peak Traffic for the Case of Four Special Conditions", The 3rd Symposium on Lift and Escalator Technologies, 26th-27th September 2013, The University of Northampton, Northampton, United Kingdom.

TECHNICAL ARTICLES PUBLISHED IN ELEVATOR TRADE JOURNALS

1. Lutfi Al-Sharif, "Safety relays for interfacing escalator safety devices", Elevation, Summer 1995.
2. Lutfi Al-Sharif, "Lift Power Consumption", Elevation, Autumn 1995. (*Reprinted in: Elevator World* May 1996.)
3. Lutfi Al-Sharif "Applications of artificial intelligence in lift systems", [in English & Italian], Elevatori, March/April 1990, page 45-49.
4. Lutfi Al-Sharif, "Bunching in Lifts", Elevation Winter 95/96. (*Reprinted in: Elevator World*, November 1996.)
5. Lutfi Al-Sharif, "The Use of Power Measurement to Calculate the Numbers of Passengers Travelling on an Escalator", Lift Report [in English & German], January/February 1996.
6. Lutfi Al-Sharif, "An overview of AC induction motor testing in accordance with BS4999, part 143", Lift Report [in English & German], March/April 1996.
7. Lutfi Al-Sharif, "Escalator Electronic speed detection unit", Elevatori [in English & Italian], March/April 1996.
8. Lutfi Al-Sharif, "Electrical Safety Systems in Escalators", Lift Report [in English & German], May/June 1996.
9. Lutfi Al-Sharif, "The Lift Directive and the Rope Brake", Elevation, Summer 1996. (*Reprinted in: Elevatori*, [in English & Italian], May/June 1996.)
10. Lutfi Al-Sharif, "Deriving DC motor parameters from in-situ testing" [in English & German], Lift Report, July/August 1996. (*Reprinted in: Elevator World* August 1997.)
11. Lutfi Al-Sharif "Escalator Handling Capacity", Part I: Elevatori July/August 1996; Part II: Elevatori, September/October 1996, [in English & Italian]. (*Reprinted in: Elevator World*, December 1996.)
12. Lutfi Al-Sharif, "Escalator Stopping, Braking and Passenger Falls", Lift Report [in English & German], November/December 1996.
13. Lutfi Al-Sharif, "The General Theory of Escalator Energy Consumption with Calculations and Examples", Lift Report [in English & German], May/June 1997. (*Reprinted in: Elevator World*, May 1998 (page 74).)
14. Lutfi Al-Sharif, "Lift & Escalator Motor sizing and selection with calculations and examples" [in English & German], Lift Report, January/February 1999.
15. Lutfi Al-Sharif, "Variable Voltage AC Drive Systems", Lift Report [in English & German], November/December 1999.

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