

CURRICULUM VITAE  
PROFESSOR Dr.  
AREF M. A. SOLIMAN



[1] GENERAL DATA

Name	Aref Mohamed Ahmed Soliman
Post	Professor, Ex Dean of The Faculty of Engineering, Benha, Benha University, Egypt.
Date Of Birth	October 24, 1960
Citizenship	Egyptian
Marital Status	Married
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[ 2 ] EDUCATIONAL QUALIFICATIONS

1. B.Sc., Mechanical Engineering, Minia University, Egypt, 1984.
2. M.Sc., Mechanical Engineering, Minia University, Egypt, 1988. Title of M.Sc. "Study of Some Factors Affecting Internal Combustion Engine Vibrations", (30/4/1988)
3. Ph. D., Mechanical Engineering, Minia University, Egypt, 1992. (Channel Scheme arrangement between Leeds University in England (UK.), and Minia University in Egypt, (1992). Title of Ph.D. "Limited Bandwidth Active suspension for Automobiles".(23/2/1992)
- 4 Associate Professor, Mechanical Engineering, Minia University, Egypt, (29/4/1997).
5. Professor, Mechanical Engineering, Minia University, Egypt, (28/5/2002).

### [ 3] ACADEMIC POSITIONS

- 1- 4<sup>th</sup> August 2018 **Dean of the Faculty of Engineering**, Benha, Benha University, until 31/7/2021 Egypt.
- 2- January 2016 **Vice Dean of Education and Students Affairs**, Faculty of Engineering, Benha, Benha University, Benha, Egypt until 3/8/2018
- 3-November 2011 **Vice Dean of the Faculty of Engineering**, Modern University for Technology and Information, Cairo, Egypt until 2/1/2016.
- 4- Feb. 2008 To **Dean of the Faculty of Engineering**, South Valley University, Qena, Egypt. October 2011)
- 5- (4/1/ 2005 - **Head of Automotive and Tractor Eng. Dept.**, Faculty of Engineering, Minia University, Egypt 3/2/2008)
- 6- (28 May 2002) Professor in Mechanical Engineering, Faculty of Eng., Minia University, Minia, Egypt
- 7-(1997-2002) Associate Professor in Mechanical Engineering, Faculty of Engineering, Minia University, Minia, Egypt
- 8-(1992-1997) Lecture, Mechanical Engineering Dept., Faculty of Engineering, Minia University, Minia, Egypt.
- 9-(1988-1992) Associated Lecture, Mechanical Engineering Dept., Faculty of Engineering, Minia University, Minia, Egypt.
- 10-(1984-1988) Instructor, Mechanical Engineering Dept., Faculty of Engineering, Minia University, Minia, Egypt
- 11- 5/3/2008 - **Manager** of [QAAP2](#) Project, the Faculty of Engineering, Qena, South Valley University 31/10/2011
- 12- 15/1/2009 - **Manager** of MEDINNOALL\_SVU project - Tempus 15/10/2013 ("[Mediterranean Innovation Alliance \(Medinnoall\)](#)")

### [ 4] International Travel and Residence for Research/Study/Work/training

- 1- 1988 - 1991 (26 months) Research work (Ph.D. study according to Channel Scheme, Leeds University, England)
- 2- (22/8/1994- Research work with Prof. Dr./ Crolla D. A., Mechanical Engineering, 7/1/1995) Leeds University, England
- 3- (15/6/1999- Research work, Mechanical Engineering, Leeds University, England. 1/8/1999)
- 4- (23/6/ 2000 – Research work, Mechanical Engineering, Leeds University, England. 16/9/2000)
- 5- (17/8/1998- Lecturer, Buraydah College of Technology, Kingdom of Saudi Arabia. 20/6/2000)
- 6- 2/2/2012 - Visiting Professor, Mechanical Eng., Leeds University, England. 25/2/2012
- 7-1992 - 2018 Traveling conference or meeting, see No. 9.

## [5] ACADEMIC AND ADMINISTRATIVE EXPERIENCE

1. Over 70 Scientific Papers in International Conferences and Journals or Periodicals. See Appendix (1).
2. Supervised of M.Sc. and Ph.D. Students in the Fields of Vehicle dynamics ((20) M.Sc. and Ph.D. Thesis).  
Thesis supervised and completed: (3) Ph. D. Thesis, (12) M.Sc. Thesis  
Thesis under supervision (In progress): (1) Ph. D. Thesis, (4) M.Sc. Thesis
3. Participation in the establishment of the Architectural Engineering Department at the Faculty of Engineering in Benha, with a delegation. The department was opened in March 2017. (Ministerial Resolution No. 1182 dated 3/21/2017). The first class graduated this year 2020/2021.
4. Referee for some papers in [SAE International Congress](#) (Reviewer for some papers in SAE Congress).
5. Referee (Reviewer) for some papers in [international Journal of Vehicle Design](#) and [SAE International Journal of Vehicle Dynamics, Stability, and NVH](#)
6. Referee for some papers in the field of Vehicle Dynamics in the permanent scientific committee for the promotion of professors and assistant professors.
7. Develop various type of active suspension system (Monoroa Company-Leeds University Co-operation)
8. Teaching Experience in the Field of Mechanical Eng. System Dynamics and Control, Mechanical Vibration, Automatic control, Theory of machines, Mechanical vibrations, Process Control and Automation, Control of Industrial Systems, Mechatronics (1), Theory of machines, Noise, Fluid Mechanics, Hydraulic systems, Active suspension systems, Power transmission, Brake systems, Suspension and steering, Measurements, Engineering Mechanics, Equipment for Construction, Automotive Engineering, Engineering drawing and other relevant courses relating to Mechanical Engineering).
9. Established the Postgraduate (M.Sc. and Diploma) Program in Mechanical Engineering, Faculty of Engineering, Minia University, Egypt (since 1992), Which Played A Major Role in Either Defining A new Courses or Redefining An Existing ones, Including Preparation of Course Syllabus and/or Notes for Undergraduate.
10. Approved and Discussed M.Sc. Researches ((20) Thesis). Established & Supervised The Vehicle Dynamics Labs., Faculty of Eng., Minia University. (since 1992).
11. Consultant In Studies & Researches and Consultant Engineering Center (Automotive Eng. Field). Faculty of Engineering, Minia University, Minia, Egypt (since 1992)
12. Areas of Research are; Dynamics, control, Vibrations and Noise.
13. Three months training in Nasr Automotive Company, Egypt.
14. Two months training in Zalmot Automotive Company, Warsaw, Poland.
15. Supervised of Studies & Researches and Consultant Engineering Center. Faculty of Engineering, Qena University, Qena, Egypt (since 2008).
16. Manager of QAAP2 Project, the Faculty of Eng., Qena, SVU (From 4/3/2008 to date)

17. Manager of MEDINNOALL\_SVU project - Tempus ("Mediterranean Innovation Alliance (Medinnoall)" (From 15 January 2010 15/10/2013).
18. Establish (with Faculty staff members) three Program for Credit hours ((1) Electromechanical Eng, (2) Construction Eng., and Management, and (3) Infrastructure-and-Utilities-Engineering.

## [6] EXPERIMENTAL APPLICATION

- (1) A slow active suspension system is developed and examined to improve vehicle ride Performance.
- (2) Theoretical and experimental research is done to introduce a solution of the vehicle dynamics problem (The solution is applied on Nasr Shahin type).
- (3) Three setting switchable damper suspension system is developed and the damper setting is modified to improve vehicle ride comfort.
- (4) Some factors (tyre parameters, seat position) affecting the vehicle ride comfort are investigated to improve vehicle ride comfort.

## [ 7] ACTIVITIES IN PROFESSIONAL ORGANIZATIONS (MEMBERSHIP OF COUNCILS AND COMMITTEES)

1. Member of the Egyptian Syndicate of Engineers. (since 1984)
2. Member of the Engineering Studies Sector Committee from February 2008 to October 2011, and from August 2018 to July 2021.
3. Member of the Continuous Evaluation Committee for the Education and Student Affairs Sector, Minia University in 1993/1994.
4. Member of International Society of Engineers in America (SAE), 1996.
5. Member of the committees emanating from the Council of the Faculty of Engineering - Minia University from 2001 - October 2006.
6. Member of the Faculty Council, Faculty of Engineering - Minia University, from January 2005 to February 3, 2008.
7. Member of the Board of Directors of the Research Fund at South Valley University Resolution No. 652 dated 10/14/2008.
8. Chairman of the Faculty Council, Faculty of Engineering - South Valley University from Sept. 2008 to October 2011
9. Member of the Scientific Laboratories and Equipment Committee - South Valley University from March 2008 to 10/24/2011.
10. Member of the Board of Directors of the Research Fund at South Valley University Resolution No. 104 dated 12/2/2011.

11. Member of the Faculty Council, Faculty of Engineering in Benha - Benha University from January 2016 to August 3, 2018.
12. Chairman of the Faculty Council at the Faculty of Engineering in Benha - Benha University from August, 2018 to July 2021.

#### [ 8] SPECIAL HONERS AND CERTIFICATES OF APPRECIATION

1. Testimonial of Honor Degree, Faculty of Engineering, Minia University, Egypt. 1984.
2. Nine (9) certificates of appreciation from the Ministry of Higher Education in Egypt - for participating in student activities at the Institute for Leadership Development in Helwan from 1993 - 1998.
3. A certificate of congratulations and thanks from the Dean of the College of Technology in Buraidah, Kingdom of Saudi Arabia, for excellence in work and for obtaining an excellent rating in the job performance report for the year 1420 AH for the members of the educational staff of the contractors.
4. Certificate of Appreciation from the Ministry of Higher Education in Egypt - for participating in student activities at the Institute of Leadership Development in Helwan 2001.
5. Testimonial of Efficiency and Competence in Vehicle Braking Systems, Buraydah, College of Technology, Kingdom of Saudi Arabia, 1998.
6. A letter of thanks and appreciation from the General Corporation for Technical Education in the Kingdom of Saudi Arabia for participating in the committee for developing the curricula related to cars for the agricultural machinery departments in the Kingdom of Saudi Arabia, 1999/2000.
7. A letter of thanks and appreciation from Prof. Dr. / Dean of the College for participating in the scientific meeting organized by the College of Technology in Buraidah, Kingdom of Saudi Arabia, in which car companies and factories and those interested in the field of cars participate, by giving a lecture in 1998.
8. A certificate of appreciation and another of thanks and appreciation from the President of the University for participating in seminars and organizing a meeting for university youth in Minya in February 2001.
9. A certificate of thanks and appreciation from the university president and another from the vice president for participating in environmental activities at South Valley University in 2010/2011.
10. A certificate of thanks and appreciation from the Arab Council for the Training of Arab University Students by participating in supervising a student's research in Benha Engineering. Benha University won second place at the level of Arab universities on 15/11/2017. This indicates the continued excellence pursued by the college and university

11. A certificate of appreciation and another of thanks and appreciation from the president of the university for the distinguished contributions to participate in student projects and activities at Benha University in 2019/2020.
12. A certificate of appreciation and the university shield from the president of the university, for the excellence of the Faculty of Engineering in Benha in the international publication of scientific research 2020/2021.
13. A certificate of appreciation from Benha University for the valuable efforts made and the positive contribution in preparing study plans and scientific content for Benha National University programs in Obour 2020/2021.
14. A certificate of thanks and appreciation from the university president, on his own behalf and on behalf of the Benha University Council, as well as the university's shield from the university president, in appreciation of his sincere efforts, distinguished contributions and giving throughout my tenure as dean of the Faculty of Engineering in Benha during past years. Honoring from the Benha University Council on 25/11/2020.

#### [ 9] CONFERENCES AND MEETING

- (1) Institute of Hadsfield and Leeds University Seminar, (Vehicle dynamics area), 1993.
- (2) Minia University, Egypt and Kassel University, Germany Seminar The Role of Universities, Rural Development, Minia, Egypt, September 28-30, 1992.
- (3) Third International Conference, Faculty of Engineering, Al-Azhar.
- (4) University, Nasr City, Cairo, Dec. 18-21 1993. 6th Conference on applied Mechanics and Mechanical Eng., Military, Technical College, Cairo, Egypt, 3-5 May 1994.
- (5) Minia First Conference in Eng. And Tech., Faculty of Engineering, Minia University, Minia, Egypt, 8-10 October, 1995.
- (6) SAE International Congress & Exposition, Detroit, Michigan, USA, Feb. 26-29, 1996.
- (7) Al-Azher Engineering Fifth International Conference, Faculty of Eng., Al-Azhar University, Nasr City, Cairo, December 19-22 1997.
- (8) Students Universities Meeting (1993- June 1998).
- (9) SAE International Congress & Exposition, Detroit, Michigan, USA, 2001.
- (10) International Conference on Advanced Simulation and Control for Automotive Applications, Oxford, UK, 24-26 Sept., 2001.
- (11) SAE International Congress & Exposition, Detroit, Michigan, USA, 2008.
- (12) SAE International Congress & Exposition, Detroit, Michigan, USA, 2010
- (13) Meeting at Alicante university, "[Mediterranean Innovation Alliance \(Medinnoall\)](#)", Tempus Project, Spain, March 2010

- (14) SAE International Congress & Exposition, Detroit, Michigan, USA, 2010.
- (15) Meeting at Algira, "[Mediterranean Innovation Alliance \(Medinnoall\)](#)", Tempus Project, Algeria, October 2010.
- (16) Meeting at Tunisia, "[Mediterranean Innovation Alliance \(Medinnoall\)](#)", Tempus Project, Tunisia, 2-3 June 2011.
- (17) Meeting at Glasgow University, "[Mediterranean Innovation Alliance \(Medinnoall\)](#)", Tempus Project, Glasgow, Uk, 17-21 October 2011.
- (18) Meeting at Tunisia, "[Mediterranean Innovation Alliance \(Medinnoall\)](#)", Tempus Project, Tunisia, 21-22 June 2012.
- (19) Meeting at, Morocco "[Mediterranean Innovation Alliance \(Medinnoall\)](#)", Tempus Project, Marakesh, Morocco, 27-28 June 2013.
- (20) Meeting at, Morocco "[Mediterranean Innovation Alliance \(Medinnoall\)](#)", Tempus Project, Fes, Morocco, 10-11 October 2013.
- (21) Conference, [Tokyo Japan](#) Mar 27-28, 2018.

## [10] TEST RIGS - BUILT AND DESIGNED IN THE VEHICLE DYNAMICS LABORATORY

Place	Test Rigs
Faculty of Eng., Minia University	(1) Built and Design Test Rig for Evaluate Various Types of Suspension System Components.
Faculty of Eng., Minia University	(2) Built and design Test Rig for Measuring Various Types of Dampers and springs Characteristics.
Faculty of Eng., Minia University	(3) Built and Design Test Rig for Determining The area of Contact and Rolling Resistance Coefficient of Tyres Interacting with off- Road Test Rig
Faculty of Eng., Minia University	(4) Built and Design Power transmission model
Faculty of Eng., Minia University	(5) Built and design Test Rig for Measuring Road Measurement Coefficient
	(6) Establish (with mechanical staff members) the following laboratories;
Faculty of Eng., Qena, South Valley University, SVU	Vibration and noise Lab. –Automotive Lab. – Mechatronics lab - Heat transfer lab -Strength of material lab. – Universal test lab. - Internal combustion Engine lab. Hydraulic Lab. – CNC Lab.
Faculty of Eng., Qena, SVU	Establish (with Electrical Eng. staff members) Electrical Engineering Laboratories
Faculty of Eng., Qena, SVU	Establish (with civil Eng. staff members) -Civil Engineering Laboratories

Faculty of Eng., Establish (with mechanical Eng. staff members) Faculty of Eng.  
Qena, SVU Workshop

Faculty of Eng., Benha, Develop (with Faculty staff members) of some Laboratories.

Benha University. (7) Establish (with Faculty staff members) three  
Faculty of Eng., Program for Credit hours; (1) Electromechanical Eng.;  
Benha University. (2) Construction Eng., and Management, and  
(3) Infrastructure and Utilities Engineering.

## [11] ACTIVITIES IN TEMPUS PROJECT

### Tempus IV- Mediterranean Innovation Alliance (MEDINNOALL)

No	Activity Title	Place and Date
1	Study Visit of top management staff to Alicante	University of Alicante, Spain (22 -27 March 2010)
2	MEDINNOALL Training Module 1 First Training Module: Strategic Implementation of University-Industry Cooperation	Oran - Argelia. (17– 22 October 2010)
3	MEDINNOALL Training Module 2 – Second Training Module: Technology Transfer and Entrepreneurship	Fes Morroco - Université Sidi Mohamed Ben Abdallah (7 March to 10 March 2011)
4	Third Training Module: Technology Audits of the MEDINNOALL Project.	Sousse - Tunisia. 2 and 3 June 2011
5	Practical Training in Glasgow.  The aim of this activity is to develop a basis for detecting possible technology transfer and research collaboration opportunities and to provide an informational platform for the internal and external university community.	Glasgow Caledonian University, Scotland , UK. (17 Oct. 2011 – 21 October 2011)
6	Medinnoall Project Event ‘Promoting Innovation culture in Mediterranean! Universities’	Tunis , 21 and 22 of June 2012
7	Medinnoall Project Event- VALORIZATION OF RESEARCH RESULTS IN EGYPTIAN UNIVERSITIES	Marakesh – Morocco (27-28 June 2013).
8	Medinnoall event. 1-Medinnoall Project Assessment in Egypt 2-Alexandria University experience in term of Valorization of Research.	Fes – Morocco 10-11 October 2013.
9	Staff selection for Knowledge Transfer Center and identification of Business Link advisors	The Staff members have been selected for each University.
10	Purchase and Installment of IT equipment.  The Egyptian project coordinator has sent to KTIC_SVU the required equipments (3 desktop computers, 3 laptops, 1 video projectors, 1 multifunctional machine, So-ware, 1 modem, 1 fax, Internet server), including installation, delivery, etc., in additional to the reference manuals, software.	South Valley University (KTIC_SVU).-April-2011



## [12] ACTIVE PARTICIPATION IN SEMINARS AND STUDENT ACTIVITIES

No	Activity Title Activity title or description	The destination and place of implementation
1	Leader of the Egyptian Students' Union, at Yorkshire Area (leeds and <u>Huddersfield</u> , etc.) in England, from 1990-1991.	Leeds Branch - Egyptian Students Union
2	General Secretary of the Egyptian Student' Union in United Kingdom from 1990 - 1991	The Egyptian Cultural Office in London, England
3	Participation in seminars and leadership of the student group in Universities youth meeting in Alexandria in the Summer of 1995, 1996, 1997.	Ministry of Higher Education
4	Participation in the presidency of the student group at the institute of leadership Development in Helwan	Ministry of Higher Education
5	Participation in the Universities youth meeting week in Zagazig and the presidency of the student group – March 1996	Zagazig University
6	Participation in seminars and leadership of the student group at the institute of Leadership Development in Helwan – Cairo in Nov. 2000.	Ministry of Higher Education
7	Participation in seminars and leadership of the student group at the institute of Leadership Development in Helwan – Cairo in the summer of 2000 -2003	Ministry of Higher Education
8	Participation in seminars and organization for the universities of youth meeting, Minia, Feb. 2001.	Minia University
9	Participation in the preparation and organization of sixth engineering meeting organized by the Faculty engineering at Minia University from February 2 February 6.2002.	Faculty of Engineering, Minia University
10	Participation in supervising the student union elections from 1993-june 1998.	Minia University
11	Participation in student activities and the leaders of Sports Committee, at the Faculty of Engineering from 1992- 1998 and from October 2000 to 2005.	Faculty of Engineering, Minia University

## APPENDIX (1): LIST OF PUBLISHED PAPERS

- 1 .F. M. El-Sayed, K. A. Hakim, S. M. Moustafa and A. M. A. Soliman "Internal combustion engine vibrations and wear" The Bulletin of the Faculty of Eng., Minia University, Minia, Egypt, Vol. 7, No. 1, 1988.
2. F. M. El-Sayed, D. A. Crolla and A. M. A. Soliman "A Theoretical comparison between passive, switchable damper and slow active suspension systems" The Bulletin of the Faculty of Engineering and Tech., Minia University, Minia, Egypt, Vol. 10, Part 1, 1991.
3. F. M. El-Sayed, D. A. Crolla and A. M. A. Soliman "A study of the passive suspension system" The Bulletin of the Faculty of Engineering and Tech., Minia University, Minia, Egypt, Vol. 10, Part 2, December 1991.
4. F. M. El-Sayed and A. M. A. Soliman "The role of agriculture machinery in the development of arid zones" The Role of Universities, Rural Development, Minia, Egypt, September 28-30, 1992.
5. D. A. Crolla , A. M. A. Soliman, F. M. El-Sayed and M. M. Alaily "Experimental results from a slow active suspension" International Journal of Vehicle Design, Vol. 14, nos 2/3, pp 226-245, 1993.
6. A. M. A. Soliman, D. A. Crolla and F. M. El-Sayed "A comparison of control strategies for the switchable damper suspension system" International Journal of Vehicle Design, Vol. 14, No. 4, pp 308-324, 1993.
7. A. M. A. Soliman "The modified variable damper used in a quarter vehicle model" The Bulletin of the Faculty of Engineering and Tech., Minia University, Minia, Egypt, Vol. 12, No. 1, June 1993.
8. A. M. A. Soliman, S. M. Moustafa, F. M. El-Sayed and K. A. Abd El-Gawwad "Effect of drawbar pull on the tractor ride comfort" Engineering Research Bulletin, University of Helwan, Faculty of Engineering and Technology, Mataria, Cairo, Vol. 5, October 1993.
9. A. M. A. Soliman "Experimental study of the tractor ride comfort" Third International Conference, Faculty of Engineering, Al-Azhar University, Nasr City, Cairo, Vol. 8, December 18-21 1993.
10. A. M. A. Soliman "The effect of the trailing implement characteristics on the tractor ride comfort" 6 th conference on applied Mechanics and Mechanical Engineering, Military Technical College, Cairo, Egypt, 3-5 May 1994
11. A. M. A. Soliman, D. A. Crolla, F. M. El-Sayed and M. M. El-Alialy "Experimental results from a three setting switchable damper" 6 th Conference on applied Mechanics and Mechanical Engineering, Military Technical College, Cairo, Egypt, 3-5 May, 1994.
12. A. M. A. Soliman "A hydro-pneumatic limited bandwidth active suspension system for road vehicles" Bulletin of the Faculty of Engineering and Technology, Minia University, Minia, Egypt, Vol. 13, No. 3, September, 1994.
13. A. A. El-Betar and A. M. A. Soliman "A study of the behaviour of passive and active suspension systems for passenger cars" The Bulletin of the Faculty of Engineering and Tech., Minia University, Minia, Egypt, Vol. 14, No. 1, January, 1995.
14. A. M. A. Soliman, S. M. Moustafa, F. M. El-Sayed and K.A. Abd El-Gawwad "An experimental and analytical study of the tractor ride comfort" Heavy Vehicle Systems, Special series, International Journal of Vehicle Design, Vol. 2, No. 1, pp 58-76, 1995.
15. A. M. A. Soliman "The effect of road and wheelbase preview sensors on the performance of the active suspension system using half vehicle model" The Bulletin of the Faculty of Engineering and Technology, Minia University, Minia, Egypt, Vol. 14, Part 2, September, 1995.
16. A. M. A. Soliman, F. M. El-Sayed, D. A. Crolla and K. A. El-Gawwad "The area of contact and rolling resistance coefficient of tyres interacting with off-road" Minia First Conference in Eng. And Tech., Faculty of Engineering, Minia University, Minia, Egypt, 8-10 October, 1995.
17. A. M. A. Soliman, "Experimental results from a hydro-pneumatic slow active suspension system" The Bulletin of the Faculty of Engineering and Tech., Minia University, Minia, Egypt, Vol. 14, No. 3, December, 1995
18. A. M. A. Soliman, A. M. Abd El-Tawwab and D. A. Crolla "Adaptive control strategies for a switchable damper suspension system", SAE International Congress & Exposition, Detroit, Michigan, USA, February 26-29, 1996.
19. A. M. A. Soliman and D. A. Crolla "Preview control for a semi active suspension system", International Journal of Vehicle Design, Vol. 17, No. 4, 1996.

20. A. M. A. Soliman, "On the ride comfort available from road and wheelbase preview with semi active car suspensions" Al-Azher Engineering Fifth International Conference, Faculty of Engineering, Al-Azhar University, Nasr City, Cairo, Vol. 7, pp 197-208, December 19-22 1997.
21. A. M. A. Soliman, and A. M. Abd El-Tawwab "Engine mount for improving vehicle ride performance" International Society for Terrain Vehicle Systems, 7<sup>th</sup> European ISTVS Conference, Ferrara, Italy, October 8-10, 1997.
22. A. M. A. Soliman "Review of the main design parameters affecting the ride comfort in agricultural vehicles", Automotive and Tractor Engineering Dept., Minia University, Egypt, 1997.
23. A. M. A. Soliman, "On the ride comfort available from road and wheelbase preview with semi active car suspensions" The Bulletin of the Faculty of Engineering, Minia University, Minia, Egypt, Vol. 17, No. 1, pp. 82-95, 1998.
24. A. M. A. Soliman, S. A. Abd Allah, A. A. El-Betar and M. S. Hamed "Effect of suspension spring stiffness on the vehicle dynamics" The Bulletin of the Faculty of Engineering and Tech., Minia University, Minia, Egypt, December, 1998.
25. K. A. El-Gawwad, D. A. Crolla, A. M. A. Soliman and F. M. El-Sayed "Prediction of the performance of off road tyres" Heavy Vehicle Systems, International Journal of Vehicle Design, Vol. 5, Nos. ¾, pp 359-378, 1998.
26. K. A. El-Gawwad, D. A. Crolla, A. M. A. Soliman and F. M. El-Sayed "Off-road tyre modelling I: the multi-spoke tyre model modified to include the effect of straight lugs" Journal Terramechanics, 36, pp 3-24, 1999.
27. K. A. El-Gawwad, D. A. Crolla, A. M. A. Soliman and F. M. El-Sayed "Off-road tyre modelling II: effect of camber on tyre performance" Journal Terramechanics, 36, pp 25-38, 1999.
28. K. A. El-Gawwad, D. A. Crolla, A. M. A. Soliman and F. M. El-Sayed "Off-road tyre modelling III: effect of angled lugs on tyre performance" Journal Terramechanics, 36, pp 63-75, 1999.
29. K. A. El-Gawwad, D. A. Crolla, A. M. A. Soliman and F. M. El-Sayed "Off-road tyre modelling IV: extended treatment of tyre-terrain interaction for the multi-spoke model" Journal Terramechanics, 36, pp 77-90, 1999.
30. K.A. Abd El-Gawwad, D. A. Crolla, A. M. A. Soliman, F. M. El-Sayed "The effect of combined lateral, longitudinal slip and yaw for a cambered tyre on off-road vehicle performance" Bulletin of the Faculty of Engineering, Minia University, Egypt, Vol. 18, 1999.
31. A. Ibrahim, A. M. A. Soliman and H. A. Housin "Influence of work piece support on the generated surface in turning" SPIE The international Society for Optical Engineering, Boston, Massachusetts, USA, November 5-8, 2000.
32. A. M. A. Soliman "A Vehicle seat suspension with hybrid control system", SAE International Congress & Exposition, Human Factors in Automotive Design, SP-1591, 0390, Detroit, Michigan, USA, March 5-8, 2001.
33. A. M. A. Soliman and D. A. Crolla "Limited bandwidth active suspension employing wheelbase preview", SAE Int. Congress & Exposition, 1063, Detroit, Michigan, USA, March 5-8, 2001.
34. A. M. A. Soliman and D. A. Crolla "A Self-tuning controller for a switchable damper suspension", International Journal of Engineering Simulation with Industrial Applications" Vol. 2, No. 2, ISSN 1468-1137, May 2001.
35. Aref M. A. Soliman "Improvement of full vehicle ride performance by an appropriate engine mount systems", International Conference on Advanced Simulation and Control for Automotive Applications, Oxford, UK, 24-26 Sept., 2001.
36. A. M. A. Soliman "An investigation for passive suspension system and ride comfort in vehicles", International Conference on Advanced Simulation and Control for Automotive Applications, Oxford, UK, 24-26 Sept., 2001.
37. A. M. A. Soliman, S. A. Abd Allah, A. A. El-Betar and M. S. Hamed "Effect of suspension spring stiffness on the vehicle dynamics" Heavy Vehicle Systems, A Series of the International Journal of Vehicle Design, Vol. 8, Nos. ¾, pp 316-334, 2001.
38. A. M. A. Soliman "Parameters affecting ride comfort in road vehicles" A Review, Automotive and Tractor Engineering Dept., Minia University, Egypt, 2002.
39. A. M. A. soliman "A comparison of the performance and power requirements of three semi-active suspension control laws", World Automotive Congress, FISITA, Barcelona, Spain, F2004 F001, May 23-27 2004.
40. A. M. A. Soliman "Evaluation of active suspension systems performance and power requirements" 7<sup>th</sup> International Symposium on Advanced Vehicle Control, AVEC 04, Hun University, Arnhem, The Netherlands, 23-27 August, 2004.

41. [A. M. A. soliman](#) "Effect of Road Roughness on the Vehicle Ride Comfort and Rolling Resistance", SAE Int. Congress, 1297, Detroit, Michigan, USA, April 3-6, 2006.
42. [A. M. A. Soliman](#), S. A. Abd Alla, Y. A. El-Mashed and M. S. A. Hamid "Improvement of Vehicle Ride Performance Using a Hydro-pneumatic Active Suspension System" SAE International Congress, 1298, Detroit, Michigan, USA, April 3-6, 2006.
43. [A. M. A. Soliman](#) "An investigation of passive, twin accumulator and active suspension systems for passenger cars", International Conference on Advances in Mechanical Engineering and Mechanics (ICAMEM2006), Hammamet, December 17-19, Tunisia, 2006.
44. [A. M. A. Soliman](#) "Improvement of vehicle ride performance using a switchable damper suspension system", SAE International Congress, Detroit, Michigan, USA, April 16-19, 2007.
45. [A. M. A. Soliman](#), S. M. Moustafa and A. O. Moaz "Engine mount systems for improving ride comfort using half and full vehicles", JIME, Jordan, 2007.
46. [A. M. A. Soliman](#) "Improvement of the Truck Ride Comfort Via Cab Suspension" A special publication collections Published By: SAE International Published: April 2008, Pages: 246, 2008 and also, SAE International Congress, Detroit, Michigan, USA, 1148, 2008.
47. [A. M. A. Soliman](#), S. M. Moustafa "Parameters Affecting Vehicle Ride Comfort Using Half Vehicle Model" SAE International Congress, Detroit, Michigan, USA, , 2008.
48. [A. M. A. Soliman](#), M. M Saber, K. R. M. Mahmoud An Investigation of Combined Twin Accumulator Suspension and Anti-Lock Braking System for Passenger Cars", International conference on Advances in Mechanical Engineering and Mechanics, Sousse, Tunisia, 16-18 December 2008.
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