## CURRICULUM VITAE

*October*, **2012** 

**Prof. Dr.** Nassar Hassan Abdel-All Maths. Dept., Assiut University, Assiut 61516, EGYPT.

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Name	Nassar Hassan Abdel-All	
<b>Current Position</b>	Professor of Mathematics (Differential	
	Geometry and its application)	
Date of Birth	13-2-1953	
Citizen ship	Sohag, Egypt	
Sex	Male	
<b>Marital Status</b>	Married, Three sons	
Nationality	Egyptian	
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Academic Background:-		

Ph. D. Pure Mathematics (Differential geometry) 1983.M. Sc. Pure Mathematics (Differential geometry) 1979.B. Sc. (Mathematics ) 1975.

<b>Professional Experiences</b> (	occupations)	):-
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Demonstrator	: Maths. Dept. Faculty of Science,
	Assiut Univ. 1975 - 1979.
Assistant Lecturer	: Maths. Dept. Faculty of Science,
	Assiut Univ. 1979 - 1983.
Assistant Professor	: Maths. Dept. Faculty of Science,
	Assiut Univ. 1983 - 1988.
Associate Professor	: Maths. Dept. Faculty of Science,
	Assiut Univ. 1988 - 1994.

**Professor:** Maths. Dept. Faculty of Science, Assiut Univ. 1994 - till now

*Head of Maths.* Dept, Faculty of Science, Assiut University from Sept 2009 - till now.

#### Scientific Activities

- (1) Author of 15 books on Geometry and Abstract Algebra, Linear Algebra, Calculus, complex analysis, number theory and differential geometry.
- (2) Supervisor of students at M. Sc and Ph. D Degrees.
- (3) Assessment of papers submitted to some Local and International Journals.
- (4) Assessment of members applying for promotion to the title of Associate. And Full Professorship.
- (5) Contributing in the committees of the department of Mathematics to upgrade the courses of Mathematics for undergraduate and post graduate students in Assiut University as well as in Faculty of Education-El Kunfda and Girls faculty of Education –Riyadh, Saudi Arabia.
- (6) Concerning to published papers, look to the list of publications.

#### General Specialization:-

Differential Geometry and its application

#### Areas of interest

- (1) Differentiable manifold, specially Riemannian and semi-Riemannian Geometry and its application in physics and general relativity and geometry of Lorantz space.
- (2) Non-Euclidean differentialGeometry, Specially: hyperbolic, elliptic, quasihyperbolic and Isotropic geometry.
- (3) Line manifolds and Algebraic Geometry.
- (4) Geometric modeling and computer-aided Geometric design.
- (5) Kinematic geometry and Lie Algebra, Darboux motions and kinematics in non-Euclidean spaces.

- (6) Line geometry and projective geometry; Line manifolds and ruled surfaces and their application in correction to the singularity region on surfaces.
- (7) Singularity theory and the detection of the image (Ridges and Ravines).
- (8) Evolution of Riemannian manifolds and its application image processing.
- (9) Information geometry and its related topics in Topology and Statistics.
- (10) Fuzzy Mathematics and Fuzzy logic and their applications in economic decisions.

#### National activities:-

- Member of the promotion committee for professor and assistant professorship in Mathematics (2008 till now).
- Member of the Egyptian Mathematical Society and one of the management council from (1998-2003)
- Committee of quality assurance and accreditation, Faculty of science, Assiut university (2007- till now).
- Member of the Egyptian syndicate of scientific professions.
- Member of the National committee of Mathematics, Academy of Scientific Research and technology, Egypt (1995 - 2000)

#### Abroad activities:-

- Member of the Tensor Society, CHIGASAKT Japan, TOKYO from 1986.
- Reviewer for the Mathematical Reviews published by the American Math. Society from 1983.

## **Conferences Participation:-**

1- International conference and advanced workshop on Arithimatic Geometry (ICAWAG), Cairo, EGYPT. 4-15 sept.1993.

- 2- International conference on differential Geometry and its applications, Athens, Greece, Aug., 15-20, 1994.
- **3-** International conference of the Tensor society, Tsukuba, Japan. Aug. 29-sept.4 (1996).
- 4- International conference on Centennial Vranceanu, Bucharest, Romania, June 30-July 4, 2000.
- **5-** The second International conference on Basic Sciences and advanced Technology, Assiut, Egypt, November 5-8, 2000.
- 6- International conference on Mathematics and the 21 st century, Cairo-Egypt, 15-20 January 2000.
- 7- International conf. On differential geometry and its applications, Cairo Univ. Faculty of Science, Math. Dept. June 2001.
- 8- International conf, new directions on dynamical systems (NDDS), Kyoto University, Japan, 5-15 Aug 2002.
- **9-** International Egypt France conf in Maths (EFMC) Egypt, 2010.
- 10- International Saudi conf. Madina, Teba Univ. 24/3/2010.
- **11-** International Conf. on Maths and its applications (IWW) Istanbul Turkey, 2012.

## Editoral Board member:-

- Journal of Maths. and computer science, Assiut univ.
- J. Egyptian Mathematical society.
- Conference organization:-
- organizing committee member for Assiut 1<sup>st</sup> international con ference of Basic Sciences and advanced Technology, Assiut, Egypt, November (1996)
- 2- organizing commitee member for Assiut 2nd International conference of Basic Sciences and advanced Technology, Assiut, Egypt, November (2000).
- **3-** The one day symposium organized by the Egyptian mathmatical socity, sevral times in Assiut Uni.

## Abrood Experienes:-

1- Associate professor of maths, Faculty of Education, EL Kunfda, Saudi Arabia, 1986 - 1991.

- 2- Head of the Maths Dept. El-kunfda faculty of Education, Saudi Arabia, 1987-1991.
- 3- Guest scholar of Research Inst. for Mathematical Sciences (RIMS), Kyoto univ. Kyoto, Japan from 13 May, 1996 to 13 May 1998.
- 4- Visiting professor to Japaneis universities; Kyoto univ. Fukuoka univ. Education and Fukuoka univ. from 23 March to 7 April 2001.
- 5- Visiting professor to Kyoto University, Japan, August 2002.
- 6- Visiting professor to Graz-Austria –Inst. of Geometry and Tech., November 1998 and 2002.
- 7- Invited speaker for Egypt- France conf. (cairo) 2010.
- 8- Invited speaker for SAUDI conf. Madina, Teba univ. 2010.

## Refree for:-

- Scientific Journals (local and International).
- Scientific committee promotion for professors and associate professors in Maths, Egypt.
- Ph.D. and M. S. C. Theses, Egypt Saudi Arabia.
- Research projects.

#### **International Lectures:-**

- Series seminar on differential geometry and its application, Kyoto university time: 10:15 ~ 12:00, RIMS Room 402, (Every Monday) from July, 1996 - March, 1997
- 2- Line manifold in Homogeneous spaces, Institute fur geometrie- Technische Graz, kopernikusgasse 24, 8010 Graz, Austria (1998, 12 November)
- **3-** Distribution of Line manifolds, Institut fur geometrie Technische Graz, Kopernikusgasse 24,8010 Graz, Austria (1998, 15 November)
- **4-** Information geometry –Institut for geometrie Tech, Graz, Austria 2002.
- 5- Classification of ruled surfaces in Semi-Riemannian space and their construction, Fukuoka university, Japan, 2 April 2001.

- **6-** Variational problem and the stability of the closed deformed surfaces, Fukuoka university of education, Japan 1 April 2001.
- 7- Visualization of optimization on differentiable manifolds, Kyoto university, Japan, 6 April, 2001.
- 8- Computer geometry and encoding the information on a surface. Kyoto university, Japan, 8 August 2002.
- **9-** Geometry and non-linearity, Faculty of Education for girls, Riyadh, Saudi Arabia, 2004.
- **10-** Fuzzy Mathematics and economic decision theory, Faculty of Education for girls, Riyadh, Saudi Arabia, 2005.
- **11-** Geometry and nature , Faculty of education for girls , Riyadh, Saudi Arabia , 2004.
- 12- Geometry and statistics, Dept. of staistics, Faculty of science, King-Saud Univ, Riyadh 2004.
- **13-** How to write a scientific paper, Faculity of education for girls, Riyadh, Saudi Arabia, 2005.
- 14- Plenary lecture on computer geometry in Egypt France Math.Conf. (EFMC), Cairo 2010.
- 15- Plenary lecture on information geometry and its application in International Saudi Conf., Madina, Teba univ, 21-24/3/2010.
- **16-** Plenary lecture on Geometric visualization of Evolution curves in (IWW), Istanbul (2012).

#### Prizes:-

- 1- Prize of the Best paper in Maths., Faculty of Science Assiut university, 1993.
- 2- Encouragement prize of the Egyptian Government in Maths, Academy of scientific research and technology, (Egypt), 1995 (state prize).
- **3-** Assiut university prize for scientific discrimination (Academic Excellence), **2001**

## Joint Work:-

Joint research with active groups from Assuit Univ, Soadi Arabia and Rominia.

## Refree for Research proposals:-

Research proposal in differential geometry from Saudi Arabia, King Abdel Aziz Univ (2004).

## Ph. D. and M. Sc. Theses supervisions:-

M. Sc. Theses for several students in Egypt and Saudi Arabia.Ph. D. Theses for several students in Egypt and Saudi Arabia

#### Languages:-

1- Arabic (Mother Language)

2- English (Good).

## Summary of the recent published materials:-

My methodological research centers largely a round differential geometry and its application. Much of my research effort was spent on studying the properties and geometric construction of line manifolds (geometric optics). Later, I did research on a number of other topics, including analysis on manifolds and Lorentz geometry and relativity theory.

In applied research, I concentrated in my early career on the geometry of beams of rays with different parameters. I relied mostly on information geometry, that work is related to statistics and computer science. Other application areas included fuzzy mathematics and economic decisions (operation research). Most recently, I have been interested in variational problem and its related topics in deformation and fluid mechanics-Singularity theory and its application in the correction and imaging process-Lie Algebra and the parametric motion of Roboatic and evolution of surfaces.

I also authored 18 books on analytic and differential geometry –Linear algebra and abstract algebra –calculus and complex analysis and number theory.

## A list of scientific publications is enclosed.

# List of Publications

By

Prof. Dr. Nassar. H. Abdel-All

Maths. Dept. Faculty of Science, Assiut University, Assiut, Egypt. E-mail: <u>nhabdeal@aun.eun.eg</u> E-mail: <u>nhabdeal2002@yahoo.com</u>

October, 2012

- [1] Soliman, M. A. and Abdel-All, N. H., A class of complexes of lines in an elliptic space S<sub>3</sub>. Bull. Cal. Math. Soc., 72, 331-363 (1980).
- [2] Soliman, M. A. and Abdel-All, N. H., Complexes of lines in an elliptic space S<sub>3</sub>. Bull.Cal. Math. Soc., 72, 347-353 (1980).
- [3] Soliman, M. A. and Abdel-All, N. H., A new class of complexes of lines in elliptic space S<sub>3</sub>. Kyungpook Math. J., V.21, No.1, June (1981).
- [4] Soliman, M. A. and Abdel-All, N. H., 3-dimensional line manifold immersed in pseudo-Isotropic space I<sub>3</sub><sup>1</sup>.
   Bull. Fac. Sci., Assiut univ., 10(2), pp201-209 (1981).
- [5] Soliman, M. A. and Abdel-All, N. H., A classification of line complexes immersed in quasihyperbolic space S<sup>1</sup><sub>3</sub> that is based on the mobility of a repare. Bull. Cal. Math. Soc., 73, 331-336 (1981).

- [6] Soliman, M. A. and Abdel-All, N. H., Class of line Complexes in the 2<sup>nd</sup> differential neighbourhood. Indian J. pure appl. Math. 13(2), 121-126, February (1982).
- [7] Soliman, M. A. and Abdel-All, N.H., Classification of line complexes in the flag space F<sub>3</sub>. Indian J. pure appl. Math., 13(3), 317-322, March (1982).
- [8] Soliman, M. A. and Abdel-All, N. H., Threedimensional Line manifolds with a symmetric matrix. Indian J. pure appl. Math. 13(3), 329 - 333, March (1982).
- [9] Soliman, M. A. and Abdel-All, N. H., Line complexes immersed in a projective space with ruled absolute. Kyungpook Math. J., V.22, N0.2, December (1982).
- [10] Soliman, M. A. and Abdel-All, N.H., A classification of line complexes that is based on three symmetric matrices.
   Bull. Fac. Sci., Assiut univ., V.12, No.1 pp 67-76 (1983).
- [11]Soliman, M. A. and Abdel-All, N. H., Classification of line complexes in Isotropic space I<sub>3</sub>. Bull. Cal. Math. Soc., 75, No.1, 41-47 (1983).
- [12] Soliman, M. A. and Abdel-All, N .H., Stratifiable pairs of line complexes immersed in an elliptic space S<sub>3</sub>.
   Periodica Math. Hungarica, V.14 (2), pp.155-161 (1983).
- [13] Soliman, M. A. and Abdel-All, N.H., the Klein image of a line complex which admit a stratification of non W-

*congrunces*. Indian J. pure appl. Math. , 16 (8), 886 - 891, August (1985).

- [14] Soliman, M. A. and Abdel-All, N. H., A new kind of 3orthogonal system of line complexes immersed in the Euclidean space E<sup>3</sup>. Bull. Cal. Math. Soc., 78, 375-380 (1986).
- [15] Abdel-All, N. H., Klien manifolds representing line manifolds in an elliptic space S<sub>3</sub>. Indian J. pure appl. Math. 18 (12), 1073 1081, December (1987).
- [16] Soliman, M. A. and Abdel-All, N. H., Differential geometry of families of planes in the elliptic space S<sub>3</sub>.
   Bull. Fac. Sci., Assiut univ. 16 (1), pp.259 270 (1987).
- [17] Abdel-All, N.H., Osculating spaces defining line manifold in a flaggen 3-space. Bull. Fac. Sci., Assiut univ., 16(1), pp.97-107 (1987).
- [18] Soliman, M. A. and Abdel-All, N. H., 3-dimensional line manifolds in the space of constant curvature. Bull.
   Fac. Sci., Assiut univ., 16(1), pp.195 - 203 (1987).
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- [20] Abdel-All, N. H., Klein correspondences of a class of line complexes in elliptic space. Tensor, N. S., Vol.48, No.2, pp.108 - 113 (1989).

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- [21] Abdel-All, N. H., A geometrical interpretation of fundamental differential invariants of line manifolds in Galilean space. Tensor, N. S., Vol.48, No.2, pp.114-119 (1989).
- [22] Abdel-All, N. H., Classification of line manifolds in an Appell 3-space.Tensor, N. S., Vol.50, No.1, pp.69-73 (1991).
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- [35] Abdel-All, N. H., Soliman, M.A. and Maher, A., Area correspondence between focal surfaces. Tensor, N. S., V.59, pp. 36 – 43, Japan (1998).
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- [42]Nassar H. Abdel-All and R. A. Hussein, *Classification* of parallel hypersurfaces via normal variation, Accepted for the oral presentation in BSAT-II conference, Assiut, Egypt (2000).
- [43]Nassar H. Abdel-All and S. A. Hassan, *Higher order Gaussian curvatures of parallel hypersurfaces*. Accepted for the oral presentation in the BSAT-II conference, Assiut, Egypt (2000).
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- [**49**]Nassar H. Abdel-All, *Information geometry and its application.* Accepted for the oral presentation in conference of Geometry and its application, Cairo Univ, Cairo, Egypt, June (2001).
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   N. Abd-Ellah, Geometrical properties of Pareto
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- [79]Nassar H. Abdel-All, Encoding information on a manifold, Oral presentation in Int. Conf., Taiba Univ, K.S.A., 21-24, March (2010).

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- [93]Nassar H. Abdel-All, etal; Expanding the tanh-function method for solving nonlinear equations, J.Applied Mathematics.Sept.V.2,No.9.pp.1069-1103 (2011).
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