



Curriculum Vitae

Prof. Hamdy Nouraldeen Abdellah Ahmed

Professor of Pure Mathematics

Department of Mathematics,

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Personal Information:

Name: Hamdy Nour Al-Deen Abd-Ellah
(*known as H.N. Abd-Ellah*)

Current Position: Professor of Pure Mathematics

Major Area: *Pure Mathematics* (Differential Geometry)

Date of Birth: 24-10-1964

Citizen ship: Sohag, Egypt

Sex: Male

Marital Status: *Married*

Children: Four

Nationality: Egyptian

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Academic Qualifications:

- Ph.D. In Mathematics (Differential Geometry), Faculty of Science, Assiut University, 2000.
- M.Sc. In Mathematics (Differential Geometry), Faculty of Science, Assiut University, 1990.
- B.Sc. In Mathematics, Faculty of Science, Assiut University, 1986.

Employment History:

- Professor, Department of Mathematics, Faculty of Science, Assiut University, 2016- till now.
- Associate Professor, Department of Mathematics, Faculty of Science, Assiut University, 2008.
- Lecturer, Department of Mathematics, Faculty of Science, Assiut University, 2000.
- Assistant Lecturer, Department of Mathematics, Faculty of Science, Assiut University, 1991.
- Demonstrator, Department of Mathematics, Faculty of Science, Assiut University, 1986.

General Specialization:

Differential Geometry and its Application.

Area of interest:

- (1) Riemannian and semi-Riemannian geometry and their applications in physics and general relativity and geometry of Lorentz space.
- (2) Geometric modeling and computer-aided geometric design.
- (3) Line geometry, especially ruled surfaces and their applications.
- (4) Evolution of Riemannian manifolds and their applications.
- (5) Information geometry and its related topics in statistics.

Teaching Interest:

1-Undergraduates Courses:

I have taught most of pure mathematics courses for the undergraduate level in many internal and external universities such as: Differential geometry - Euclidean and non - Euclidean geometry- Geometry transformations - Geometry foundations - Analytical geometry in plane and space - Analytic geometry and vector calculus - Calculus and advanced calculus - Linear algebra - General and abstract algebra- Differential equation - Complex variable - Special functions - Mathematics for economics - Mathematics for pharmacy.

2-Graduates Courses:

I have taught many post-graduate courses in many internal and external universities such as:

Special topics in differential geometry - Differentiable manifolds - Geometry of partial differential equations- Riemannian geometry - Surfaces and curves in Lorentz space - Linear algebra.

Memberships:

- 1) Egyptian mathematical society.
- 2) Egyptian syndicate of scientific professions.
- 3) Committee of laboratories and scientific devices, science faculty, 2015-2016.
- 4) Scientific committee, mathematics department, 2016- till now.

Computer Skills:

- Knowledge of contemporary teaching practices and E-learning.
- Mathematica and scientific work place programs, Microsoft Windows, Microsoft office.
- Using new technologies and information technology, Faculty of science, Assiut university, 2002.
- Computer course I and II, Center of training and serving society, University college, Umm AL-Qura University, Mecca, KSA, 2003-2004.

Faculty and Leadership Development Project:

- Word Processing 2010, (2013).
- Database 2010, (2013).
- Spread Sheet 2010, (2013).
- Skills of effective communication, (2005).
- Selected subjects in teaching – designing curriculum, (2005).
- Taking decisions and solving problems, (2005).
- Developing management skills, (2005).
- Economics and marketing of scientific papers, (2007).
- Quality assurance and accreditation, (2007).
- Scientific publication, (2014).
- How to write competitive research project, (2014).
- Making exams and students evaluation, (2015).

Scientific conferences:

- 1) The second international conference in basic sciences and Technology –Assiut, Egypt, 2000.
- 2) The first international conference on new horizons in basic and applied sciences, Hurghada, Egypt, 2013.
- 3) The third international conference on mathematics & Information sciences, Luxor, Egypt, 2013.
- 4) The fourth international conference for young researchers, Assiut, Egypt, 2014.
- 5) National conference on mathematics- Academy of Scientific Research and Technology, Cairo, Egypt, 2014.
- 6) The one day conference in mathematics, Faculty of science, Alexandria University, Egypt, 2015.
- 7) The first international conference for young researchers in basic and applied sciences, Assiut, Egypt, 2016.
- 8) The one-day conference in mathematics and its applications, Al- Azhar University, Assiut, 2016.
- 9) The seventh international conference for young researchers, Assiut, Egypt, 2022.

Supervision of Ph.D and M.Sc Theses:

- 1) Participate in supervision on M.Sc., Faculty of Science, Suhag university, Egypt, 2000-2004.
Researcher: Muhammed Khalefa Abd el Wahab
- 2) Participate in supervision on Ph. D., Faculty of Science, Azhar university, Assiut, Egypt, 2000-2004.
Researcher: Fathy Muhammed Hamdon
- 3) Participate in supervision on M.Sc., Faculty of Science, Azhar university, Assiut, Egypt, 2013-2016.
Researcher: Mahmoud Abd Rabouh
- 4) Participate in supervision on M.Sc., Faculty of Science, Azhar university, Assiut, Egypt, 2013-2016.
Researcher: Abd El-Reheem Khalifa Umran
- 5) Participate in supervision on Ph.D., Faculty of Science, Assiut university, Egypt, 2013-2016
Researcher: Surya Kasem kid.

Examinations:

Examiner of M.Sc and Ph.D theses for several students in many internal and external universities in Saudi Arabia (2002-2011) and Egypt till now.

Scientific and educational activities:

- 1) Joint-supervision scholarship at the institution of geometry, Graz university of technology, Austria (1997-1999).
- 2) Associate professor of mathematics, University college, Umm AL- Qura university, Mecca, KSA, 2002 - 2011.
- 3) Referee for several international scientific societies.

- 4) Contributing in the different activities of the faculty and the department.
- 5) Participate in making teaching plan and the projects of developing the new supplementary rule of the department.
- 6) Organize and manage educational and scientific discussions and scientific workshops in the department.
- 7) Publication of more than 30 scientific research.
- 8) Participate in lots of national and international published researches which has lots of different application.
- 9) Participating in the seminars and workshops held by the unit of quality insurance and accreditation in the department of mathematics.
- 10) Participating in the scientific conferences and seminars in geometry held by geometry institution - Graz university of technology, Austria, (1997-1999).
- 11) Participating in scientific, periodic seminars and lectures in mathematics and computer organized by department of mathematics, University college, Umm AL- Qura university, Mecca, KSA, (2002-2011).
- 12) Participating in the workshops of department of mathematics, University college, Umm AL- Qura university, Mecca, KSA.
- 13) Published an article titling "General methods to teach Mathematics" in an annual reasearches and studies issued by the, University college, Umm AL- Qura university, Mecca, KSA, issue 16 (2006).
- 14) Participating in the electronic education in the University college in Mecca , in which I entered 20 participation on the faculty website to contribute to the developing of the education process, (2006-2007).

Scientific awards:

- 1) Mathematics department shield for getting Ph.D. in the annual ceremony organized by mathematics department to whom have scientific degrees, Assiut university, Egypt (2000).
- 2) Certificate of scientific excellence for getting Ph.D and honoring excellent students in Egyptian universities, University of 6 October, (2000).
- 3) Mathematics department shield for being associate professor in the annual ceremony organized by mathematics department to whom have scientific degrees, Assiut university, Egypt (2008).
- 4) Umm AL- Qura University, shield honoring the exerted efforts during teaching in department of mathematics, University college, Umm AL- Qura university, Mecca, KSA, (2002-2011).
- 5) Mathematics department shield for being professor in the annual ceremony organized by mathematics department to whom have scientific degrees, Assiut university, Egypt (2016).

Languages:

- 1- Arabic (Mother Language)
- 2- English (Fluent).

List of Publications:

- [1] M. A. Soliman, N. H. Abdel-All and **H. N. Abd-Allah**, Geometric invariants on m-dimensional ruled, *Tensor*, N. S. Vol. 59 (1998), 27-35.
- [2] N. H. Abdel-All and **H. N. Abd-Allah**, Stability of deformed normal hyperruled surfaces, *A. M. S. E. Journal*, Vol. 37, No. 4 (2000), 1-12.
- [3] N. H. Abdel-All and **H. N. Abd-Allah**, Critical values of deformed osculating hyperruled surfaces, *Indian J. Pure Appl. Math.*, 32 (8) (2001), 1217-1228.
- [4] Nassar H. Abdel-All and **H. N. Abd-Allah**, Stability of closed hyperruled surfaces. *Chaos, Solitons and Fractals*, Vol.13 (2002), 1077-1092.
- [5] Nassar H. Abdel-All, **H. N. Abd-Allah** and H. M. Moustafa, Information geometry of random walk distribution, *Publ. Math. Debrecen*, 63/1-2 (2003), 51-66.
- [6] Nassar H. Abdel-All and **H. N. Abd-Allah**, Perturbations of curvatures flow in a hyperbolic space, *Appl. Math. and Computation*, 143 (2003), 349-360.
- [7] Nassar H. Abdel-All and **H. N. Abd-Allah**, Deformation of a kinematic surface in a hyperbolic space, *Chaos, Solitons and Fractals*, 15 (2003) , 631-638.
- [8] N. H. Abdel-All and **H. N. Abd-Allah**, The tangential variation on hyperruled surfaces, *Appl. Math. and Computation*, 149 (2004), 475-492.
- [9] N. H. Abdel-All, M. A. W. Mahmoud and **H. N. Abd-Allah**, Geometrical properties of Pareto distribution, *J. Egypt. Math. Soc.*, Vol. 14 (1) (2006), 29-43.
- [10] **H. N. Abd-Allah**, Motion of tubular surfaces, *Italian J. Pure & Appl. Math.*, N. 22 (2007), 161-176.
- [11] H. N. Abd-Allah and H. M. Moustafa, Affine connection on Weibull manifold, *Italian J. Pure & Appl. Math.*, N. 24 (2008), 143-156.
- [12] R. A. Abdel-Baky and **H. N. Abd-Allah**, Ruled W-Surfaces in Minkowski 3-Space \mathfrak{R}_1^3 , *Arch. Math. (BRNO) Tomus* 44 (2008), 251-263.
- [13] R. A. Abdel-Baky, **H. N. Abd-Allah**, Tubular surfaces in Minkowski 3-space, *J. Adv. Math. Stud.* Vol. 7, No. 2 (2014), 1-7.

- [14] Abdel-All, N. H., **Abd-Ellah, H. N.**, Abdel-Aziz, H. S., Abdel-Razek, M. A. and Khalil, A. A., Evolution of a helix curve by observing its acceleration, *Wulfenia J.*, Vol 21, No. 11 (2014), 382-395.
- [15] **H. N. Abd-Ellah**, Translation L/W-surfaces in Euclidean 3-space E^3 , *J. Egypt. Math. Soc.*, 23 (2015), 513–517.
- [16] **H. N. Abd-Ellah**, Evolution of translation surfaces in Euclidean 3- space E^3 , *Appl. Math. Inf. Sci.*, Vol.9, No. 2 (2015), 661-668.
- [17] **H. N. Abd-Ellah**, Motion of Bishop Frenet offsets of ruled surfaces in E^3 , *J. Appl. Math.* ID 218956 (2015), 1-11.
- [18] **H. N. Abd-Ellah** and S. A. Hassan, Parallel correspondences of W- surfaces in E^3 , *Ciencia e Tecnica Vitivinicola J.*, Vol. 30, n. 4 (2015), 17-29.
- [19] **H. N. Abd-Ellah** and S. A. Hassan, Parallel transformations of hypersurfaces in R^4 , *Ciencia e Tecnica Vitivinicola J.*, Vol. 30, n. 9 (2015), 70-90.
- [20] M. A. Soliman, **H. N. Abd-Ellah**, S. A. Hassan and S. Q. Saleh, Frenet surfaces with pointwise 1-type Gauss map, *Wulfenia J.* Vol. 22, No.1 (2015), 169-181.
- [21] Nassar. H. Abdel-All, F. M. Hamdoon, **H. N. Abd-Ellah** and M. A. Abd-Rabo, Investigation of cyclic surfaces with constant curvatures, *Ciencia e Tecnica Vitivinicola J.*, Vol. 30, n. 2 (2015), 214-224.
- [22] M. A. Soliman, **H. N. Abd-Ellah**, S. A. Hassan and S. Q. Saleh, Finiteness property of deformed revolution surfaces in E^3 (PART I), *Electronic J. Math. Analysis & Applications*, Vol. 4(1) Jan. (2016), 211-226.
- [23] M. A. Soliman, **H. N. Abd-Ellah**, S. A. Hassan and S. Q. Saleh, Finiteness property of deformed revolution surfaces in E^3 (PART II), *J. Mathematical & Computational Science* Sci. 6, No. 3 (2016), 315-336.
- [24] M. A. Soliman, **H. N. Abd-Ellah**, S. A. Hassan and S. Q. Saleh, Finite type of the pedal of revolution surfaces in E^3 , *J. Korean Math. Soc.* 53, No. 4 (2016), 909–928.
- [25] Nassar. H. Abdel-All and **H. N. Abd-Ellah**, Geometric visualization of parallel bivariate Pareto distribution surfaces, *J. Egypt. Math. Soc.* 24 (2016), 250-257.
- [26] Nassar. H. Abdel-All, F. M. Hamdoon, **H. N. Abd-Ellah** and A. K. Omran, Corresponding developable ruled surfaces in Euclidean 3-space E^3 , *J. Mathematical & Computational Science* . 6, No. 3 (2016), 390-404.
- [27] Nassar. H. Abdel-All, **H. N. Abd-Ellah**, F. M. Hamdoon and M. A. Abd-Rabo, Three dimensional surfaces obtained by the equiform motion of a surface of revolution, *Assiut Univ. J. Math. & Computer Science*, 44 (2) (2016), 1-12.

- [28] M. A. Soliman, **H. N. Abd-Ellah**, S. A. Hassan and S. Q. Saleh, Darboux ruled surfaces with pointwise 1-type Gauss map, *Sohag J. Sci.* 2, No. 1 (2017), 1-8.
- [29] **H. N. Abd-Ellah** and M. A. Abd-Rabo, Kinematic surface generated by an equiform motion of astroid curve, *International Journal of Engineering Research & Science (IJOER)*, Vol-3, Issue-7 (2017), 100-114.
- [30] **H. N. Abd-Ellah** and A. K. Omran, Study on BCN and BAN ruled surfaces in E^3 , *Korean J. Math.* 25, No. 4 (2017), 513-535.
- [31] M. A. Soliman, **H. N. Abd-Ellah**, S. A. Hassan and S. Q. Saleh, Garay's condition of deformed cylindrical and translation surfaces in E^3 , *MathLAB Journal*, Vol 2 (2019), 1-12.
- [32] **H. N. Abd-Ellah**, Bishop ruled surfaces in E^3 (under preparation).
- [33] M. A. Soliman, **H. N. Abd-Ellah**, Some new properties of revolution surfaces in Euclidean 3-space E^3 , (under preparation).