QF11/0110 - 3.1E	Curriculum Vitae Form - Procedures of Faculty Transfer and Promotion

CURRICULUM VITAE

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1. **Personal Data**

Date of Birth: 11 /02 / 1970

Nationality: Jordanian

2. **Education**

- Ph.D. (Mathematics/ Differential geometry) 2001, Aristotle University of Thessaloniki, Thessaloniki, Greece.

- B.Sc. (Mathematics) 1994, Aristotle University of Thessaloniki, Thessaloniki, Greece.

3. **Ph.D. Dissertation**

"Linear Geometry in projective and Euclidean spaces", Aristotle University of Thessaloniki, Thessaloniki, Greece.

4. **Employment**

Academic Positions

- Assistant Professor, Department of Mathematics, Philadelphia University, Jarash, Jordan
  Second semester 2002/2003   (Part time)
- Assistant Professor, Department of Basic Sciences, Al Baha Al Ahliyya College of Science, Al Baha, Saudi Arabia
  (Second semester 2003/2004)
- Assistant Professor, Department of Mathematics, Al Zaytoonah University of Jordan, Amman, Jordan
  September 2004 – May 2021
- Associate Professor, Department of Mathematics, Al Zaytoonah University of Jordan, Amman, Jordan
  May 2021- current

Administrative Positions

- Chairman of Department of Basic Sciences, Faculty of Science and Information Technology, Al Zaytoonah University of Jordan, Amman, Jordan, 1/10/2018 – 1/10/2019.

5. Research Interests

Dr. H. Al-Zoubi main current research interests focus on surfaces of finite Chen-type, a topic which has been investigated about 40 years ago from B.Y. Chen corresponding to the first fundamental form of a surface and it has been a topic of active research since then. In this respect, H. Al-Zoubi and others, followed this theme by investigating surfaces of finite type corresponding to the second and third fundamental form of the surface. Another types of research are:

1) Studying surfaces of coordinate finite type corresponding to the second and third fundamental form.
2) Studying surfaces of coordinate finite type Gauss map corresponding to the second and third fundamental form.
3) Studying surfaces of finite type Gauss map corresponding to the second and third fundamental form.

These types of research can be applied on special classes of surfaces such as ruled surfaces, tubes, quadric surfaces, cones, translation surfaces, surfaces of revolution and other more classes.

6. Teaching Experience

- *Undergraduate Courses*

    1. *Euclidean Geometry*
    2. *Differential Equations*
    3. *Numerical Analysis*
    4. *Set Theory*
    5. *Statistic and probabilities*
    6. *Calculus I- IV*
    7. *Linear Algebra*
    8. *Introduction to geometry 1*
    9. *Introduction to geometry 2*
    10. *Differential geometry*

7. Membership of Committees

- **University**
    - Certificate equivalency committee
    - Examinations Committee
    - Quality assurance committee
    - Social and culture committee

8. Professional and Scientific Meetings

- *4th International congress of Geometry, 26th May-1st June 1996, Thessaloniki.*
- *5th Panhellenic congress of Geometry, 31st May- 2nd June 2001, Thessaloniki.*

9. Publications

- **Papers in refereed journals**

1. H. Al-Zoubi, A. Kelleci, T. Hamadneh, and M. Al- Sabbagh, Classification of Surfaces of Coordinate Finite Type in the Lorentz-Minkowski 3-Space, *Axioms*, Vol. **11** (2022), pp 1–17.
2. T. Hamadneh, H. Al-Zoubi, I. Abu Falahah and M. Al- Sabbagh, Direct Algorithm for Bernstein Enclosure Boundary of Polynomials, *Journal of Mathematics*, Vol. **2022** (2022), pp 1–8.
3. H. Al-Zoubi, F. Abed Al-Fattah, M. Al- Sabbagh, Surfaces of finite *III*-type in the Euclidean 3-space, *WSEAS Transactions on Mathematics, Vol.* **20**, *2021, 729-735.*

QF11/0110 - 3.1E	Curriculum Vitae Form - Procedures of Faculty Transfer and Promotion

4. W. Al-Mashaleh, H. Qawaqneh, **H. Al-Zoubi**, Some results on traces of the generalized products and sums of positive semidefinite matrices. *International Journal of Mathematics and Computer Science*, Vol. 17(2022), no. 2, 619–625

5. **H. Al-Zoubi**, Surfaces of finite *III*-type, *International journal of mathematical models and methods in applied sciences*, Vol. 15 (2021), 190–194.

6. A. Dababneh, A. Zraiqat, A. Farah, **H. Al-Zoubi**, and M. Abu Hammad. Numerical methods for finding periodic solutions of ordinary differential equations with strong nonlinearity. *Journal of Mathematical and Computational Science,* Vol. **11**, (2021), pp 6910–6922.

7. **H. Al-Zoubi**, T. Hamadneh, M. Abu Hammad, and M. Al- Sabbagh, Tubular of finite type Gauss map, , *Journal for Geometry and Graphics,* Vol. **25** *(2021), No. 1, 45–52.*

8. T. Hamadneh, A. Zraiqat, **H. Al-Zoubi** and M. Elbes, Sufficient Conditions and Bounding Properties for Control Functions Using Bernstein Expansion, *Applied Mathematics & Information Sciences,* Vol. **14**, (2020), pp 1–9.

9. **H. Al-Zoubi**, M. Al- Sabbagh, Anchor rings of finite type Gauss map in the Euclidean 3-space, *International Journal of Mathematical and Computational Methods,* Vol. **5**, (2020), pp 9–13.

10. **H. Al-Zoubi**, H. Brham, T. Hamadneh and M. Al Rawajbeh, Tubes of coordinate finite type Gauss map in the Euclidean 3-space, *Indian Journal of Mathematics,* Vol. **62** *No. 2,* (2020), pp 171–182.

11. T. Hamadneh, **H. Al-Zoubi** and S. A. Alomari, Fast Computation of Polynomial Data Points Over Simplicial Face Values, *Journal of Information & Knowledge Management,* Vol. **19**, No. 1 (2020), pp 1–13.

12. T. Hamadneh, M. Ali and **H. AL-Zoubi**, Linear Optimization of Polynomial Rational Functions: Applications for Positivity Analysis, *Mathematics*, Vol. **8**, No. 2 (2020), pp 1–12.

13. M. Abu Hammad, H. Alzaareer, **H. Al-Zoubi** & H. Dutta, Fractional Gauss hypergeometric differential equation, *Journal of Interdisciplinary Mathematics,* Vol. **22** *issue 7* (2019) pp. 1113-1121.

14. M. Al Rawajbeh, I. Al Hadid, **H. Al-Zoubi**, Adoption of Cloud Computing in Higher Education Sector: An Overview, *International Journal of Technology and Engineering Studies,* Vol. **5** *issue 1* (2019) pp. 28-34.

15. S. Bendehiba, **H. Al-Zoubi**, Translation surfaces of finite type in Sol_3, *Commentationes Mathematicae Universitatis Carolinae,* Vol. **22**, No. 2 (2020), pp 237–256.

16. S. Al-Zu'bi, Y. Jarawsheh, **H. Al-Zoubi**, M. Elbes, T. Kanan, B. Cupta, Multi-orientation geometric medical volumes segmentation using 3D

multiresolution analysis, *Multimedia Tools and Applications*, Vol. **78**, Issue 17, pp 24223–24248.

17. M. A. Awadallah, M. Al-Betar, A. Bolaji, E. M. Alsukhni, **H. Al-Zoubi**, Natural selection methods for artificial bee colony with new versions of onlooker bee, *Soft Computing*, Vol. **23** (2019) *No. 15*, 6455–6494.

18. **H. Al-Zoubi**, M. Al- Sabbagh, S. Stamatakis, On surfaces of finite Chen III-type, *Bull. Of the Belgian Mathematical society*, Vol. **26** *(2019) No. 2,* 177–187.

19. **H. Al-Zoubi,** A. Dababneh, M. Al- Sabbagh, Ruled surfaces of finite II-type, *WSEAS Transactions on Mathematics, Vol. **18**, 2019, 1-5.*

20. **H. Al-Zoubi**, S. Al-Zu'bi, S. Stamatakis, H. Almimi, Ruled surfaces of finite Chen-type, *Journal for Geometry and Graphics*, Vol. **22** (2018), *No. 1, 15–20.*

21. **H. Al-Zoubi**, K. Jaber, S. Stamatakis, Tubes of finite Chen-type, *Communications of the Korean Mathematical Society,* Vol. **33** (2017) *No. 2,* 581–590.

22. **H. Al-Zoubi,** Tubes of finite II-type in the Euclidean 3-space, *WSEAS Transactions on Mathematics, Vol. **17**, (2018), 1-5.*

23. **H. Al-Zoubi,** S. Stamatakis, W. Al-Mashaleh, M. A. Awadallah, Translation surfaces of coordinate finite type, *Indian Journal of Mathematics,* Vol. **59**, *No. 2, 2017, 227-241.*

24. **H. Al-Zoubi,** S. Stamatakis, Ruled and quadric surfaces satisfying $\Delta^{III}\mathbf{x} = \Lambda\mathbf{x}$, *Journal for Geometry and Graphics*, Vol. **20**, *No. 2, (2016) 147–157.*

25. S. Stamatakis, **H. Al-Zoubi,** Surfaces of revolutions satisfying $\Delta^{III}\mathbf{x} = \Lambda\mathbf{x}$, *Journal for Geometry and Graphics* Vol. **14**, *No. 2, (2010), 181–186.*

26. S. Stamatakis, **H. Al-Zoubi,** On surfaces of finite Chen type. *Result. Math.* Vol. **43**, *2003, 181-190.*

- **Books**
1. Introduction to Geometry, Dar Alam Althaqafa for Publishing and Distribution, 2015.
2. Development and modernization of Euclidean geometry book for Alquds Almaftooha University, 2011.

- **Conference Presentations**

1. *1ˢᵗ Arab Conference in Mathematics, Applied Science Private University October 2004, Amman.*
2. *ICMM 2016: International conference on mathematics and mechanics, 1-2 May 2016 Venice, Italy.*
3. *Icpam 2017: International conference of pure and applied mathematics, 22-25 July 2017, Prague, Czech Republic.*

4. *ICAMCS 2018: International Conference on Applied Mathematics and Computer Science Jan 19-21/2018 Budapest, Hungary.*
5. *AMACS 2018: 3rd International Conference on Applied Mathematics And Computer Science London, UK, October 26-28, 2018.*
6. *JEEIT 2019: IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology, April 9-11, 2019, Amman, Jordan.*
7. *OMG Conference 2019: 16-20 Sep. 2019, Dornbin, Austria.*
8. *ICIT 2021: IEEE Jordan The 10th International Conference on Information Technology, July 14-15, 2021, Amman, Jordan.*