

## CURRICULUM VITAE

### PERSONAL DATA

<b>Name</b>	Emad Mohamed Selouma
<b>Nationality</b>	Egyptian
<b>Position</b>	Professor
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### EDUCATION

<b>Year</b>	<b>Academic Degree</b>	<b>Institution</b>
1996	Bach.	Beni-Suef University, Egypt
2001	Master	Ain-Shams University, Egypt
2007	PH.D	Assuit University, Egypt

### WORK EXPERIENCE

<b>Period</b>	<b>Position</b>	<b>Address</b>
1997-2001	Teaching assistant	Beni-Suef University, Egypt
2001-2006	Assistant teacher	Beni-Suef University, Egypt
2007-2017	Assistant Prof.	Beni-Suef University, Imam University
2017-2022	Associate Prof.	Imam University
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### RESEARCH INTERESTS

Differential Gemoetry of curves and surfaces

## PUBLICATIONS

M. A. Solliman, A. H. Khater, F. M. Hamdoon and E. M. Solouma, Three dimensional surfaces foliated by two dimensional spheres, J. of Egyp. Math. Soc., 1, (2007), pp. 101-110.
F. M. Hamdoon and E. M. Solouma, Constant scalar curvature of cyclic surfaces in $R^5$ , J. of Geometry, Vol. 92 (2009), pp. 69 – 78.
E. M. Solouma, Local study of constant scalar curvature of two- dimensional surfaces obtained by the motion of circle, Applied Mathematics and Computation, Vol. 219, Issue 8 (2012), pp. 3385-3394.
E. M. Solouma, Three dimensional surfaces foliated by the equiform motion of pseduohyperbolic surfaces, JP Journal of Geometry and Topology, Vol. 17, No. 2 (2015), pp. 109-126.
M. M. Wageeda and E. M. Solouma, Local study of scalar curvature of cyclic surfaces obtained by homothetic motion of a Lorentzian circle, Applied Mathematics, Vol. 6 (2015), pp. 1344-1352.
E. M. Solouma, M. M. Wageeda, Y. Gh. Gouda and M. Bary, Studying scalar curvature of two dimensional kinematic surfaces obtained by using similarity kinematic of a deltoid, Applied Mathematics, Vol. 6 (2015), pp. 1353-1361.
M. M. Wageeda, E. M. Solouma, Y. GH. Gouda and A. I. Qommary, Some properties of the two-dimensional kinematic surfaces obtained by an equiform motion of a sinusoidal curve, International Journal of Advanced Research in Science, Engineering and Technology, Vol. 2, Issue 7 (2015), pp. 736-743.
E. M. Solouma and Mohamed M. Khader, Approximate Technique for Solving Class of Fractional Variational Problems, Applied Mathematics, Vol. 6 (2015), pp. 837-846.
M. M. Khader and E. M. Solouma, Introducing FDM combined with Hermite formula for solving numerically the linear fractional Klein-Gordon equation, Journal of Computational and Theoretical Nanoscience, Vol. 12 (2015), pp. 4579–4583.
E. M. Solouma, Kinematic surfaces with constant scalar curvature in Euclidean 5-space, Inter. conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2016), May 19-23, 2016, Bodrum-Mugla, Turkey, www.rciapam.org
E. M. Solouma, Some characterizations of timelike canal surfaces according to Bishop frame in Minkowski 4-space, International Mathematical Forum, Vol. 11, No. 18 (2016), pp. 875 – 884.
E. M. Solouma, M. M. Wageeda, Investigation of non-lightlike tubular surfaces with Darboux frame in Minkowski 3-space, Nonlinear Analysis and Dierential Equations, 4, No. 10 (2016), pp. 493-502.
E. M. Solouma, M. M. Wageeda, Some characterizations of constant ratio curves according to Bishop frame in Minkowski 4-space, Journal of Abstract and Computational Mathematics, 1, No. 2 (2016), pp. 47-54.
E. M. Solouma, M. M. Wageeda, Three dimensional kinematic surfaces with constant scalar curvature Lorentz-Minkowski 7-space, Bulletin of Mathematical

Analysis and Applications, Vol. 8, Issue 4 (2016), pp. 23-32.
E. M. Solouma, Type-2 spacelike Bishop frame and an application to spherical image in Minkowski space-time, Int. J. of Applied and Computational Mathematics, 3 (2017), 3575–3591. DOI 10.1007/s40819-017-0316-6.
E. M. Solouma, Special Smarandache curves recording by curves on a spacelike surface in Minkowski space-time, PONTE Journal, Vol. 73, Issue 2 (2017), pp. 251-263. DOI: 10.21506/j. ponte.2017.2.20
E. M. Solouma, M. M. Wageeda, Special Smarandache curves according to Bishop frame in Euclidean space-time, International J. of Math. Combinatorics, Vol. 1 (2017), pp. 1-9.
E. M. Solouma, M. M. Wageeda, Two dimensional kinematic surfaces with constant scalar curvature in Lorentz–Minkowski 7-space, Nonlinear Engenering-Modeling and Applications, Vol. 6 (3) (2017), pp. 201-206.
E. M. Solouma, Two dimensional kinematic surface in Lorentz-Minkowski 5-space with constant scalar curvature, Applications and Applied Mathematics: An International Journal (AAM), Vol. 12, Issue 1 (2017), pp. 433 – 444.
E. M. Solouma, Special equiform Smarandache curves in Minkowski space-time, Journal of Egyptian Math. Society, Vol. 25, (2017), pp. 319-325.
E. M. Solouma, M. M. Wageeda, Studying some properties of constant ratio non-null curves in Minkowski space-time, SYLWAN Journal, Vol. 161, Issue 6 (2017), pp. 263- 275.
E. M. Solouma, M. M. Wageeda, Investigation some properties of a spacelike curve in Minkowski space-time, Ciência e Técnica Vitivinícola Journal, Vol. 32, No.7 (2017), pp. 56-63.
E. M. Solouma, M. M. Wageeda, Biharmonic timelike curves according to Bishop frame in Minkowski 4-space, Journal of Applied Mathematics and Statistical Applications, 1 (1) (2018), 1 – 3.
E. M. Solouma, M. M. Wageeda On spacelike equiform-Bishop Smarandache curves on $S^2_1$ , J. of the Egypt. Math. Soc. 27 :7 (2019) , <a href="https://joems.springeropen.com/track/pdf/10.../s42787-019-0009-x">https://joems.springeropen.com/track/pdf/10.../s42787-019-0009-x</a>
M. M. Wageeda, E. M. Solouma and M. Bary, Darboux Iso-Geodesic Special Curve in Euclidean Space, Modern Applied Science; 13 ( 9) (2019), 98 – 104.
M. A. Soliman, M. M. Wageeda, E. M. Solouma and M. Bary, The new study of some characterization of canal surfaces with Weingarten and linear Weingarten types according to Bishop frame, J. of the Egypt. Math. Soc. 27 : 26 (2019) <a href="https://doi.org/10.1186/s42787-019-0032-y">https://doi.org/10.1186/s42787-019-0032-y</a>
E. M. Solouma, M. M. Wageeda, M. A. Soliman and M. Bary, Geometric Properties of Special Spacelike Curves in Three-Dimension Minkowski Space-Time, Modern Applied Science; 14 ( 2) (2020), 11 – 22.
Emad Solouma and Ibrahim Al-Dayel, On geometry of spherical image in MinkMnkowski space-time with timelike type-2 parallel transport frame, Applications and Applied Mathematics: An International Journal (AAM), 15 (1) (2020), 491 – 507.
Emad Solouma, Generalized Smarandache curves of spacelike and equiform

<p>spacelike curves via timelike second binormal in <math>\mathfrak{R}_1^4</math>, Applications and Applied Mathematics: An International Journal, 15 (2) (2020), 1 – 10.</p>
<p>Emad Solouma, Equiform Spacelike Smarandache Curves of Anti-Equiform Salkowski Curve According to Equiform Frame, International Journal of Mathematical Analysis, 15 (1) (2021), 43 – 59.</p>
<p>Emad Solouma, <b>Characterization of Smarandache trajectory curves of constant mass point particles as they move along the trajectory curve via PAF</b>, Bulletin of Mathematical Analysis and Applications, 13 (4) (2021), 14-30.</p>
<p>Ibrahim Al-Dayel and Emad Solouma, On some geometric properties of non-null curves via its position vectors in <math>R_1^3</math>, Applications and Applied Mathematics: An International Journal (AAM), 16 (2) (2021), 1130 –1139.</p>
<p>Ibrahim Al-Dayel and Emad Solouma, Geometric Properties in Minkowski Space-Time of Spacelike Smarandache Curves, Int. J. Appl. Comput. Math, 7:140 (2021), 1-17.</p>
<p>Ibrahim Al-Dayel and Emad Solouma, Characteristic Properties of Type-2 Smarandache Ruled Surfaces According to the Type-2 Bishop Frame in <math>E^3</math>, Advances in Mathematical Physics Vol. 2021, Article ID 8575443, 7 pages.</p>
<p>Emad Solouma and Ibrahim Al-Dayel, Harmonic Evolute Surface of Tubular Surfaces via B-Darboux Frame in Euclidean 3-Space, Advances in Mathematical Physics Vol. 2021, Article ID 5269655, 7 pages.</p>
<p>M.A. Abdelkawy , Mdi Begum Jeelani , Abeer S. Alnahdi , T.M. Taha and E.M. Soluma, Legendre spectral collocation method for distributed and Riesz fractional convection–diffusion and Schrödinger-type equation, Boundary Value Problems (2022) 2022:13.</p>
<p>Ibrahim AL-Dayel, Emad Solouma and Meraj Khan, On geometry of focal surfaces due to B-Darboux and type-2 Bishop frames in Euclidean 3-space, AIMS Mathematics, 7 (7) (2022), 13454–13468.</p>
<p>Emad Solouma and Mohamed Abdelkawy, Family of ruled surfaces generated by equiform Bishop spherical image in Minkowski 3-space, AIMS Mathematics, 8 (2) (2022), 4372–4389.</p>
<p>Ibrahim AL-Dayel, Emad Solouma, Normal spacelike developable surfaces on Minkowski 3-space <math>R^3_1</math>, ScienceAsia, 49 (2), (2022), 1-13.</p>
<p>M.A.Abdelkawy, E.M.Soluma, Ibrahim Al-Dayel, Dumitru Baleanu, Spectral solutions for a class of nonlinear wave equations with Riesz fractional based on Legendre collocation technique, Journal of Computational and Applied Mathematics, (2022), <a href="https://doi.org/10.1016/j.cam.2022.114970">https://doi.org/10.1016/j.cam.2022.114970</a></p>



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