### **CURRICULUM VITAE**

#### **Aristides I. Kechriniotis**

**Position:** Visiting lecturer, Department of Physics, University of Thessaly,

35100 Lamia, Greece

**E.mail:** <u>akechriniotis@uth.gr</u>

Google scholar profile: https://scholar.google.com/citations?user=qN-JBwYAAAAJ&hl=en

**Education:** 

1975 Degree in Mathematics, University of Patras, Greece

2002 PhD, General Department, University of Patras

PhD title: "Study of material electromagnetic properties through

Dirac Equation"

**Professional experience:** 

10/2019-today Visiting lecturer, Department of Physics, University of Thessaly,

Greece

2/2019-9/2019 Visiting lecturer, General Department of Lamia, University of

Thessaly, Greece

2002-2019 Visiting lecturer, Technological Education Institute of Lamia and

former Technological Education Institute of Sterea Ellada, Greece

# Field of research:

The research interests include:

- Analytic inequalities, inequalities in inner product spaces and probability inequalities.
- Interpolation methods and their application in image processing.
- Linear and Commutative Algebra.
- Study of Weyl and Dirac particles interaction with electromagnetic fields.

#### **Publications:**

22 publications in refereed journals and 12 publications in conferences

**Citations:** > 250 (*h-index* = 7 *google.scholar*)

# **Selected publications**

- 1. Aristides Kechriniotis and Konstantinos K. Delibasis, *On generalizations of Grüss inequality in inner product spaces and applications*, Journal of Inequalities and Applications, Vol. 2010, Article ID 167091, 18 pages, 2010. doi:10.1155/2010/167091.
- 2. Aristides I. Kechriniotis, konstantinos K. Delibasis, Christos Tsonos and Nicholas Petropoulos, a new parallel polynomial division by a separable

- polynomial via hermite interpolation with applications, Electronic Journal of Linear Algebra, Volume 23, pp. 770-781, August 2012.
- 3. Konstantinos K. Delibasis, Aristides I. Kechriniotis, and Nicholas D. Assimakis, New Closed Formula for the Univariate Hermite Interpolating Polynomial of Total Degree and its Application in Medical Image Slice Interpolation, IEEE transactions on signal processing, vol. 60, no. 12, December 2012.
- 4. Konstantinos K. Delibasis, Aristides I. Kechriniotis, A New Formula for Bivariate Hermite Interpolation on Variable Step Grids and Its Application to Image Interpolation, IEEE Transactions on Image Processing, 23(7): 2892-2904 (2014).
- **5.** A. Kechriniotis, C. Tsonos, K. Delibasis, G. Tsigaridas. *On the connection between the solutions to the Dirac and Weyl equations and the corresponding electromagnetic 4-potentials*, Communications in Theoretical Physics, 72, 045201 (2020).