Leoni Evaggelatou-Dalla

Professor Section of Mathematical Analysis, Department of Mathematics National & Kapodistrian University of Athens

Birthdate : 10 June 1950 Place of Birth : Kefallonia, Greece

Education

- 1981
 Ph.D in Mathematics

 University College London
 London University

 SUPERVISOR
 : D. G. Larman
- 1977 M.Sc. in Pure Mathematics (Dinstinction) Birkbeck College London University
 1972 Degree in Mathematics (Excellent)
 - National & Kapodistrian University of Athens

Academic career - Teaching

- 1973-1976 National & Kapodistrian University of Athens
 1981-today Department of Mathematics (undergraduate & post-graduate) Department of Physics
 Department of Chemistry
 Department of Informatics & Telecommunications
- 2001-2002
2003-2004University of Cyprus (visiting professor)
Department of Mathematics & Statistics
Department of Public and Business Administration
Department of Physics
Department of Informatics

1988-1989 University College London (Research Fellow)
 1995-1996 Department of Mathematics

Ph.D. theses advised

- N. Katseli (Assistant Prof., Dept. Mathematics, Univ. of Athens)
- V. Drakopoulos (High school teacher, Dept. of Informatics & Telecommunications, Univ. of Athens)
- P. Bouboulis (High school teacher, Dept. of Informatics & Telecommunications, Univ. of Athens)

3 +30 210-7276375

- +30 210-7276398 (FAX)
- ⊠ ldalla@math.uoa.gr
- w http://users.uoa.gr/~ldalla

M.Sc. theses advised

16 M.Sc. theses in graduate programs at "Pure Mathematics", "Applied Mathematics" and "Teaching and Methodology of Mathematics" of the Mathematics Department, Univ. of Athens

Publications

1. Peer-reviewed articles

P. Bouboulis, S. Theodoridis, C. Mavroforakis, and **L. Dalla** (2015). Complex support vector machines for regression and quaternary classification. *IEEE Trans. Neural Netw. Learning Syst.* **26** (6), 1260–1274.

P. Bouboulis, L. Dalla, and M. Kostaki-Kosta (2007). Construction of smooth fractal surfaces using Hermite fractal interpolation functions. *Bulletin of the Greek Mathematical Society* 54, 179–196.

P. Bouboulis and L. Dalla (2007a). Fractal interpolation surfaces derived from fractal interpolation functions. *Journal of Mathematical Analysis and Applications* **336** (2), 919–936.

P. Bouboulis and L. Dalla (2007b). Closed fractal interpolation surfaces. *Journal of Mathematical Analysis and Applications* 327 (1), 116–126.

P. Bouboulis and L. Dalla (2007c). A general construction of fractal interpolation functions on grids of \mathbb{R}^n . European Journal of Mathematical Analysis and Applications 18 (4), 449–476.

L. Dalla and E. Samiou (2007). Curvarture and *q*-strict convexity. Beiträge zur Algebra und Geometrie 48 (1), 83–93.

P. Bouboulis, **L. Dalla**, and V. Drakopoulos (2006a). Construction of recurrent bivariate fractal interpolation surfaces and computation of their box-counting dimension. *Journal of Approximation Theory* **141** (2), 99–117.

P. Bouboulis, **L. Dalla**, and V. Drakopoulos (2006b). Image compression using recurrent bivariate fractal interpolation functions. *International Journal of Bifurcation and Chaos* **16** (7), 2063–2071.

L. Dalla and T. Hatziafratis (2006). Strict convexity of sets in analytic terms. *Journal of the Australian Mathematical Society* **81**, 49–61.

P. Bouboulis and L. Dalla (2005). Hidden variable vector valued fractal interpolation functions. *Fractals* **13** (3), 227–232.

L. Dalla, V. Drakopoulos, and M. Prodromou (2003). On the box dimension for a class of nonaffine fractal interpolation functions. *Analysis in Theory and Applications* **19** (3), 220–233.

L. Dalla (2002). Bivariate fractal interpolation functions on grids. *Fractals* 10 (1), 53–58.

L. Dalla (2001). A note on the Fermat-Torricelli point of a *d*-simplex. *Journal of Geometry* **70**, 38–43.

L. Dalla, D. G. Larman, P. Mani-Levitska, and C. Zong (2000). The blocking numbers of convex bodies. *Discrete & Computational Geometry* 24, 267–277.

L. Dalla and V. Drakopoulos (1999). On the parameter identification problem in the plane and the polar fractal interpolation functions. *Journal of Approximation Theory* **101**, 289–302.

I. Bárány and **L. Dalla** (1997). Few points to generate a convex polytope. *Mathematika* **44**, 325–331.

L. Dalla and N. K. Tamvakis (1996). An isoperimetric inequality in the class of simplicial polytopes. *Mathematica Japonica* **44** (3), 569–572.

L. Dalla and D. G. Larman (1990). Volumes of a random polytope in a convex set. *Applied Geometry and Discrete Mathematics*, 175–180.

L. Dalla (1989). On a class of some special sets on the k-skeleton of a convex compact set. *Israel Journal of Mathematics* **68** (3), 353–364.

L. Dalla, S. Giotopoulos, and N. Katseli (1989). The socle and finite-dimensionality of a semiprime Banach algebra. *Studia Mathematica* **XCII**, 201–204.

L. Dalla (1988). Increasing paths leading to a face of a convex compact set in a Hilbert space. *Acta Mathematica Hungarica* **52** (3–4), 195–198.

L. Dalla, S. Giotopoulos, and N. Katseli (1987). Skeletons of the unit ball of a C^* -algebra. *Mathematica Balkanica* **1**, 83–88.

L. Dalla (1987). On the measure of the one-skeleton of the sum of convex compact sets. *Journal of the Australian Mathematical Society (Series A)* **42**, 385–389.

L. Dalla (1986). Increasing paths on the one-skeleton of a convex compact set in a normed space. *Pacific Journal of Mathematics* **124** (2), 289–294.

L. Dalla and N. K. Tamvakis (1985). Sets of constant width and diametrically complete sets in normed spaces. *Bulletin of the Greek Mathematical Society* 26, 27–39.

L. Dalla (1983). The *n*-dimensional Hausdorff measure of the *n*-skeleton of a convex *w*-compact set (body). *Mathematische Nachrichten* **123**, 131–135.

L. Dalla and D. G. Larman (1980). Convex bodies with almost all *k*-dimensional sections polytopes. *Mathematical Proceedings of the Cambridge Philosophical Society* **88**, 395–401.

2. Other publications

S. Anagnostopoulou, L. Dalla and P. Koultouki (2015), A fractal approach of 'ego'. *Mathematical Gazette* **75**, **81-82**, 3-17 (in greek).

L. Dalla and G. K. Papageorgiou (2012). Metrics and norms used for obtaining sparse solutions to underdetermined systems of linear equations, arXiv: 1203.4579 [math.OC].

L. Dalla and D.-D. Stergiopoulou (2011). The theorems of Radon, Carathéodory and Helly. *Mathematical Gazette* **75**, **75-76**, 135-148 (in greek).

L. Dalla and A. Papaspyropoulou (2010). The Upper Bound theorem for the number of faces of a polytope in \mathbb{R}^d . *Mathematical Gazette* **73**, 66-98 (in greek).

V. Drakopoulos and L. Dalla (1999). Space filling curves generated by fractal interpolation functions. *Numerical Methods and Applications: Recent advances in Numerical Methods*. Ed. by O. Iliev, M. Kaschiev, S. Margenov Bl. Sendov and P. Vassilevski. World Scientific, 784–792.

V. Drakopoulos, V. Tziovaras, A. Bohm, and **L. Dalla** (1999). Fractal interpolation techniques for the generation of space filling curves. *Hellenic European Conference in Computer Mathematics and its Applications*. Ed. by H. Lipitakis, LEA.

V. Drakopoulos and L. Dalla (1997). The new dimension of pedagogical mathematical thought. *14o Panhellenic Conference of Mathematical Education, Greek Mathematical Society*, 235–243 (in greek).

L. Dalla and C. Damianou (1996). An estimation of the box dimension of Greater Athens. *Tech. Chron. A*, 9–15.

L. Dalla, V. Drakopoulos and A. Bömh (1995). Elements of Fractal Geometry. *Mathematical Gazette 43*, 21-41 (in greek).