

## Christopher Terence John Dodson (short cv)

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**Research:** global differential geometry, topology, information geometry, statistical geometry and applications, 1959-69 Wiggins Teape Research & Development, Butlers Court, Beaconsfield, UK.

1969-89 University of Lancaster, UK, Head of Mathematics 1984-89.

1989-96 University of Toronto, Canada, NSERC/Abitibi Price Senior Research Chair.

1996-Present University of Manchester, Professor of Pure Mathematics, now Emeritus.

**More than 200 research publications since 1962, including the following books:**

C.T.J. Dodson. **On some information geometric approaches to cyber security.** 30 pages. [Summary](#). Chapter in N.J. Dara and T.M. Rassias *Editors* [Operations Research, Engineering, and Cyber Security](#), Springer Series in Optimization and its Applications, Cham, Switzerland 2017 pp 167-197.

F. Nielsen, F. Critchley and C.T.J. Dodson Editors. [Computational Information Geometry: For Image and Signal Processing](#) Springer Series Signals and Communication Technology, 2017.

C.T.J. Dodson, George Galanis and Efstathios Vassiliou. **Geometry in a Frechet Context: A Projective Limit Approach.** London Mathematical Society Lecture Note Series 428 Cambridge University Press, 2015 xiii + 271pp. [Contents and Preface](#)

C.T.J. Dodson and W.W. Sampson. [Dimensionality reduction for classification of stochastic texture images](#) In F. Nielsen(Ed.): [Geometric Theory of Information](#). Springer, Heidelberg , 2014.

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Khadiga Arwini and C.T.J. Dodson. [Information Geometry: Near Randomness and Near Independence](#). Lecture Notes in Mathematics 1953, Springer-Verlag, Berlin, Heidelberg, New York, 2008. (Over 9000 downloads of e-version)

C.T.J. Dodson. [Manifold Geometry, in Encyclopedia of Science and Technology, Volume 9](#) Academic Press, San Diego 2001.

C.T.J. Dodson and P.E. Parker. [A User's Guide to Algebraic Topology](#) Kluwer, Dordrecht 1997. (Reprinted 1998).

C.T.J. Dodson and T. Poston. [Tensor Geometry](#) Graduate Texts in Mathematics 120, Springer-Verlag, Berlin, New York, Heidelberg, 2<sup>nd</sup> Edition 1991. (Reprinted 1997). In print since 1977.

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C.T.J. Dodson. [Categories, Bundles and Spacetime Topology](#). 2nd Edition, Kluwer, Dordrecht 1988.

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C.T.J. Dodson. [Space-Time Edge Geometry](#). *Int J. Theor. Phys.* Vol 17 No 6 , 1978 (pp 389-504).

**Recent Research/Preprints:** <http://www.maths.manchester.ac.uk/~kd/homepage>