

Original Article

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Space-time self-harm and suicide clusters in two cities in Taiwan

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Abstract

Aims. Suicidal acts may cluster in time and space and lead to community concerns about further imitative suicidal episodes. Although suicide clusters have been researched in previous studies, less is known about the clustering of non-fatal suicidal behaviour (self-harm). Furthermore, most previous studies used crude temporal and spatial information, e.g., numbers aggregated by month and residence area, for cluster detection analysis. This study aimed to (i) identify space-time clusters of self-harm and suicide using daily incidence data and exact address and (ii) investigate the characteristics of cluster-related suicidal acts.

Methods. Data on emergency department presentations for self-harm and suicide deaths in Taipei City and New Taipei City, Taiwan, were used in this study. In all-age and age-specific analyses, self-harm and suicide clusters were identified using space-time permutation scan statistics. A cut-off of 0.10 for the *p* value was used to identify possible clusters. Logistic regression was used to investigate the characteristics associated with cluster-related episodes.

Results. A total of 5,291 self-harm episodes and 1,406 suicides in Taipei City (2004–2006) and 20,531 self-harm episodes and 2,329 suicides in New Taipei City (2012–2016) were included in the analysis. In the two cities, two self-harm clusters (*n* [number of self-harm episodes or suicide deaths in the cluster] = 4 and 8 in Taipei City), four suicide clusters (*n* = 3 in Taipei City and *n* = 4, 11 and 8 in New Taipei City) and two self-harm and suicide combined clusters (*n* = 4 in Taipei City and *n* = 8 in New Taipei City) were identified. Space-time clusters of self-harm, suicide, and self-harm and suicide combined accounted for 0.65%, 0.59%, and 0.08% of the respective groups of suicidal acts. Cluster-related episodes of self-harm and suicide were more likely to be male (adjusted odds ratio [aOR] = 2.22, 95% confidence interval [CI] 1.26, 3.89) and young people aged 10–29 years (aOR = 2.72, 95% CI 1.43, 5.21) than their cluster-unrelated counterparts.

Conclusions. Space-time clusters of self-harm, suicide, and self-harm and suicide combined accounted for a relatively small proportion of suicidal acts and were associated with some sex/age characteristics. Focusing on suicide deaths alone may underestimate the size of some clusters and/or lead to some clusters being overlooked. Future research could consider combining self-harm and suicide data and use social connection information to investigate possible clusters of suicidal acts.

Introduction

A space-time suicide cluster can be defined as multiple suicides that occur closer to each other in time and space than would be expected based on the expectation of the community or statistical chance (Robinson *et al.*, 2016a). One single suicide cluster could have a tremendous impact on the community and lead to serious concerns of imitation, i.e., further occurrences of suicide (Heffel *et al.*, 2015; Robinson *et al.*, 2016a, 2016b).

Previous studies of clusters of suicidal behaviour have mainly focused on suicide deaths (Benson *et al.*, 2022; Haw *et al.*, 2013; Niedzwiedz *et al.*, 2014; Robinson *et al.*, 2016a), although non-fatal suicidal behaviour may also occur as part of a cluster of suicide deaths, and the incidence of non-fatal suicidal behaviour can be 20-fold higher than that of fatal events (Fazel and Ramson, 2020). Not including non-fatal suicidal behaviour in the analysis may lead to many clusters of suicidal behaviour being overlooked.

Space Time And Self

E. Norman Pearson



Space Time And Self:

Space, Time, and Self, By E. Norman Pearson E. Norman Pearson, 1967 **Space, Time, and Self** E. Norman Pearson, 1967 **Theory of the Stationary Self-Consistent Universe** Avshalumov Alexander Shamailovich, Since the creation of GR and subsequent works in cosmology the question of the curvature of space in the Universe is considered one of the most important and debated to this day This is evident because the curvature of space depends whether the Universe expands contracts or is static These discussions allowed the author to propose a paradoxical idea simultaneous existence in the Universe of three interconnected space times positive negative and zero curvature and on this basis to develop a theory in which each space time plays its own role and develops in a strict accordance with its sign of curvature The three space time model of the structure of the Universe proposed by the author allows to solve many fundamental problems of modern cosmology and theoretical physics and creates the basis for building a unified physical theory including one that unites GR and quantum physics **Relativity and the Nature of Spacetime** Vesselin Petkov, 2009-06-23 This expanded second edition of Relativity and the Nature of Spacetime contains several major changes and a number of additions to different chapters Two chapters Chaps 6 and 7 which discussed two specific groups of arguments against the reality of spacetime have been transformed into appendices A and B Two new chapters Chaps 6 and 10 have been added Chapter 6 entitled Why Is the Issue of the Nature of Spacetime So Important elaborates on what was Sect 5.6 of the first edition and addresses some recent work on the nature of spacetime for example the growing or evolving block universe model of the world which has recently been lived by several physicists as what appears to be the last remaining alternative to the Minkowski absolute four dimensional world after it had become an undeniable fact that three dimensionalism or presentism contradicts the relativistic experimental evidence Chapter 10 entitled Spacetime and the Nature of Quantum Objects and based on what used to be Sects 6.2 and 6.3 in the first edition explores the implications of the issue of the nature of spacetime for quantum physics in order to see whether it can provide some insight into the nature of quantum objects Two new sections have been included namely Sect 5.6 entitled Relativization of Existence and Observers in General Relativity and Sect 7.6 titled Probing the Anisotropic Velocity of Light by a Terrestrial Experiment **World Congress of Medical Physics and Biomedical Engineering 2006** Sun I. Kim, Tae S. Suh, 2007-05-07 These proceedings of the World Congress 2006 the fourteenth conference in this series offer a strong scientific program covering a wide range of issues and challenges which are currently present in Medical physics and Biomedical Engineering About 2 500 peer reviewed contributions are presented in a six volume book comprising 25 tracks joint conferences and symposia and including invited contributions from well known researchers in this field **Information, Natural Law, and the Self-Assembly of Rhythmic Movement** Peter N. Kugler, Michael T. Turvey, 2015-12-14 Originally published in 1987 the introduction states the authors have successfully accomplished their program to explain based on physical representations the observed relations among various parameters of wrist pendulum

oscillations Thereby a set of new ideas and concepts including those developed recently by the scientific school to which the authors belong are introduced to biology These concepts are closely related to the experimental data This accomplishment makes the book especially attractive and demonstrates once more the productivity of applying physics to biology Clear language simple figures and physical examples illuminate rather complicated problems These attractive features should make the book intelligible to a variety of investigators in the field of motor control not only to the specialists with physical and mathematical education From the foreword Kugler and Turvey have written strategic physical biology and shown that after all dynamics including both kinetics and kinematics may support a unitary physical view of some of the profound operations of our brains This is a grand start on what I hope is a larger program of demystifying behaviour *The Ecological Self* Freya Matthews, 2006-05-23 This is the first book length treatment of the metaphysical foundations of ecological ethics The author seeks to provide a metaphysical illumination of the fundamental ecological intuitions that we are in some sense one with nature and that everything is connected with everything else Drawing on contemporary cosmology systems theory and the history of philosophy Freya Mathews elaborates a new metaphysics of interconnectedness She offers an inspiring vision of the spiritual implications of ecology which leads to a deepening of our conception of conservation

The Immortal Self Richard Wilde, 2010 The Immortal Self traces historical ideas of the self as developed by philosophers theologians neurophysiologists and scientists It includes explanations of quantum mechanics and Einstein's theory of relativity that are readable and understandable by the layperson It considers what science presently is capable of contributing to our many diverse concepts of what constitutes the self To this end The Immortal Self explores the brain its morphology and operation explores our concepts of time and looks at the metaphysical concepts of quantum physics The book also considers the paleontological and genetic evidence for the self Ideas of the self extend into the mists of human history and have been handed down through the ancient Greek philosophers and through the religious prophets and philosophers These ideas are collected and presented in an unbiased account for consideration by the reader Finally an empirical search for the self is suggested About the Author Richard E Wilde is Professor Emeritus of chemistry and biochemistry at Texas Tech University He is a member of the American Chemical Society and the American Physical Society He has published extensively in the areas of chemical physics and molecular spectroscopy He is author of The Many Faces of Jesus and co author with Surjit Singh of Statistical Mechanics Fundamentals and Modern Applications *Philosophy of Nursing* Janice M. Brencick, Glenn A. Webster, 1999-11-18 Using the philosophical lens of universality and singularity in combination with nursing practice Janice M Brencick and Glenn A Webster explore the complex relationship between science and technology on the one hand and the care of unique and complex individuals on the other Through carefully crafted conversations between a nurse and many respected philosophers from Plato to Whitehead the book reflects on spirituality caring and God or the One The authors unique perspectives Brencick is a nursing clinician Webster a philosopher provide a

profound and fascinating look at the modern health care system and a new vision for health care in the twenty first century

Scale Invariance Richard N. Henriksen, 2015-04-23 Bringing the concepts of dimensional analysis self similarity and fractal dimensions together in a logical and self contained manner this book reveals the close links between modern theoretical physics and applied mathematics The author focuses on the classic applications of self similar solutions within astrophysical systems with some general theory of self similar solutions so as to provide a framework for researchers to apply the principles across all scientific disciplines He discusses recent advances in theoretical techniques of scaling while presenting a uniform technique that encompasses these developments as well as applications to almost any branch of quantitative science The result is an invaluable reference for active scientists featuring examples of dimensions and scaling in condensed matter physics astrophysics fluid mechanics and general relativity as well as in mathematics and engineering

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