

## Original Article

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

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David Gunnell<sup>6,7</sup> and Shu-Sen Chang<sup>2,3,8</sup>

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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 1,496 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 4 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 0.05%, 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 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 Self

**Joseph Alexander Leighton**



## **Space Time Self:**

*Space, Time, and Self*, By E. Norman Pearson E. Norman Pearson,1967      *The Field of 'Between'* Hisaki Hashi,2023-04  
Cognitive science has reached a peak in the past few decades This science conceives of mental life as consisting of bundles of information that can be quantified and digitally transmitted a revolution in the history of humanity However an innovation also brings with it new problems Whether and how present day philosophy will come to terms with the rapid progress of cognitive science depends on our ability to reflect on the intersection of the two disciplines In this book the Between is an interactive zone of intermediating different ways of thinking systems and disciplines      *Computer Vision - ECCV 2022* Shai Avidan,Gabriel Brostow,Moustapha Cissé,Giovanni Maria Farinella,Tal Hassner,2022-10-22 The 39 volume set comprising the LNCS books 13661 until 13699 constitutes the refereed proceedings of the 17th European Conference on Computer Vision ECCV 2022 held in Tel Aviv Israel during October 23 27 2022 The 1645 papers presented in these proceedings were carefully reviewed and selected from a total of 5804 submissions The papers deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image reconstruction object recognition motion estimation      *The International Handbook of Adult Development and Wisdom* Stevens,2026-02-25 This handbook brings together researchers from across the globe to examine the theory and research about wisdom especially as it relates to current ideas about adult development Each chapter reviews both what has been accomplished in recent years and puts forward several perspectives new and old about the definition of wisdom how it is understood across cultures and how it can be integrated into the broader field of adult development

*Computer Vision - ECCV 2022 Workshops* Leonid Karlinsky,Tomer Michaeli,Ko Nishino,2023-02-18 The 8 volume set comprising the LNCS books 13801 until 13809 constitutes the refereed proceedings of 38 out of the 60 workshops held at the 17th European Conference on Computer Vision ECCV 2022 The conference took place in Tel Aviv Israel during October 23 27 2022 the workshops were held hybrid or online The 367 full papers included in this volume set were carefully reviewed and selected for inclusion in the ECCV 2022 workshop proceedings They were organized in individual parts as follows Part I W01 AI for Space W02 Vision for Art W03 Adversarial Robustness in the Real World W04 Autonomous Vehicle Vision Part II W05 Learning With Limited and Imperfect Data W06 Advances in Image Manipulation Part III W07 Medical Computer Vision W08 Computer Vision for Metaverse W09 Self Supervised Learning What Is Next Part IV W10 Self Supervised Learning for Next Generation Industry Level Autonomous Driving W11 ISIC Skin Image Analysis W12 Cross Modal Human Robot Interaction W13 Text in Everything W14 BioImage Computing W15 Visual Object Oriented Learning Meets Interaction Discovery Representations and Applications W16 AI for Creative Video Editing and Understanding W17 Visual Inductive Priors for Data Efficient Deep Learning W18 Mobile Intelligent Photography and Imaging Part V W19 People Analysis From Face Body and

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*Quantum Leap* Vladimir G. Ivancevic, Tijana T. Ivancevic, 2008 This is a unique 21st century monograph that reveals a basic yet deep understanding of the universe as well as the human mind and body all from the perspective of quantum mechanics and quantum field theory This book starts with both non mathematical and mathematical preliminaries It presents the basics of both non relativistic and relativistic quantum mechanics and introduces Feynman path integrals and their application to quantum fields and string theory as well as some non quantum applications It then describes the quantum universe in the form of loop quantum gravity and quantum cosmology Lastly the book turns to the human body and mind applying quantum theory to electro muscular stimulation and consciousness It can be used as a graduate or advanced undergraduate textbook for a two semester course in quantum physics and its modern applications Some parts of the book can also be used by engineers biologists psychologists and computer scientists as well as applied mathematicians both in industry and academia

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## **Table of Contents Space Time Self**

1. Understanding the eBook Space Time Self
  - The Rise of Digital Reading Space Time Self
  - Advantages of eBooks Over Traditional Books
2. Identifying Space Time Self
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Space Time Self
  - User-Friendly Interface
4. Exploring eBook Recommendations from Space Time Self
  - Personalized Recommendations
  - Space Time Self User Reviews and Ratings
  - Space Time Self and Bestseller Lists
5. Accessing Space Time Self Free and Paid eBooks
  - Space Time Self Public Domain eBooks
  - Space Time Self eBook Subscription Services
  - Space Time Self Budget-Friendly Options
6. Navigating Space Time Self eBook Formats
  - ePub, PDF, MOBI, and More
  - Space Time Self Compatibility with Devices
  - Space Time Self Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Space Time Self
  - Highlighting and Note-Taking Space Time Self
  - Interactive Elements Space Time Self
8. Staying Engaged with Space Time Self

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Space Time Self
9. Balancing eBooks and Physical Books Space Time Self
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Space Time Self
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Space Time Self
- Setting Reading Goals Space Time Self
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Space Time Self
- Fact-Checking eBook Content of Space Time Self
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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