



## ARTICLE

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OPEN

# Investigating patterns of change, stability, and interaction among scientific disciplines using embeddings

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Multi-disciplinary and inter-disciplinary collaboration can be an appropriate response to tackling the increasingly complex problems faced by today's society. Scientific disciplines are not rigidly defined entities and their profiles change over time. No previous study has investigated multiple disciplinarity (i.e. the complex interaction between disciplines, whether of a multidisciplinary or an interdisciplinary nature) at scale with quantitative methods, and the change in the profile of disciplines over time. This article explores a dataset of over 21 million articles published in 8400 academic journals between 1990 and 2019 and proposes a new scalable data-driven approach to multiple disciplinarity. This approach can be used to study the relationship between disciplines over time. By creating vector representations (embeddings) of disciplines and measuring the geometric closeness between the embeddings, the analysis shows that the similarity between disciplines has increased over time, but overall the size of their neighbourhood (the number of neighbouring disciplines) has decreased, pointing to disciplines being more similar to each other over time, while at the same time displaying increased specialisation. We interpret this as a pattern of global convergence combined with local specialisation. Our approach is also able to track the development of disciplines' profiles over time, detecting those that changed the most in the time period considered, and to treat disciplines as compositional units, where relationships can be expressed as analogy equations of the form  $\text{Discipline}_1 + \text{Discipline}_2 \approx \text{Discipline}_3$ . These findings can help researchers, academic institutions and organizations to better understand and react to the dynamics of scientific research, and can support the education sector in designing curricula or in the recruitment of academics and researchers.

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# Investigating Patterns Of Change

**Clemens Wendtner**



## **Investigating Patterns Of Change:**

**Investigating Patterns of Change, Level A.** Kendall/Hunt Publishing Company, 1994      **Mindset Mathematics: Visualizing and Investigating Big Ideas, Grade 8** Jo Boaler, Jen Munson, Cathy Williams, 2019-12-23 Engage students in mathematics using growth mindset techniques The most challenging parts of teaching mathematics are engaging students and helping them understand the connections between mathematics concepts In this volume you ll find a collection of low floor high ceiling tasks that will help you do just that by looking at the big ideas at the eighth grade level through visualization play and investigation During their work with tens of thousands of teachers authors Jo Boaler Jen Munson and Cathy Williams heard the same message that they want to incorporate more brain science into their math instruction but they need guidance in the techniques that work best to get across the concepts they needed to teach So the authors designed Mindset Mathematics around the principle of active student engagement with tasks that reflect the latest brain science on learning Open creative and visual math tasks have been shown to improve student test scores and more importantly change their relationship with mathematics and start believing in their own potential The tasks in Mindset Mathematics reflect the lessons from brain science that There is no such thing as a math person anyone can learn mathematics to high levels Mistakes struggle and challenge are the most important times for brain growth Speed is unimportant in mathematics Mathematics is a visual and beautiful subject and our brains want to think visually about mathematics With engaging questions open ended tasks and four color visuals that will help kids get excited about mathematics Mindset Mathematics is organized around nine big ideas which emphasize the connections within the Common Core State Standards CCSS and can be used with any current curriculum      *Resources for Teaching Middle School Science* Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of

accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

**Water-resources Investigations Report**,2001 **ENC Focus** ,1994 **Scientific Investigations Report** ,2004 **Investigating the oceans** Great Britain: Parliament: House of Commons: Science and Technology Committee,Great Britain. Parliament. House of Commons. Select Committee on Science and Technology,2007-10-18 Investigating the Oceans Tenth report of session 2006 07 Vol 2 Oral and written Evidence

**Forensic Intelligence and Deep Learning Solutions in Crime Investigation** Kaunert, Christian,Raghav, Anjali,Ravesangar, Kamalesh,Singh, Bhupinder,2025-02-28 The massive advancement in various sectors of technology including forensic science is no exception Integration of deep learning DL and artificial intelligence AI in forensic intelligence plays a vital role in the transformational shift in the effective approach towards the investigation of crimes and solving criminal investigations with foolproof evidence As crimes grow increasingly sophisticated traditional investigative tactics may be inadequate to grapple with the complexities of transnational criminal organizations DL uses scientific tools for the recognition of patterns image and speech analysis and predictive modeling among others which are necessary to help solve crimes By studying fingerprints behavioral profiling and DNA in digital forensics AI powered tools provide observations that were inconceivable before now Forensic Intelligence and Deep Learning Solutions in Crime Investigation discusses the numerous potential applications of deep learning and AI in forensic science It explores how deep learning algorithms and AI technologies transform the role that forensic scientists and investigators play by enabling them to efficiently process and analyze vast amounts of data with very high accuracy in a short duration Covering topics such as forensic ballistics evidence processing and crime scene analysis this book is an excellent resource for forensic scientists investigators law enforcement criminal justice professionals computer scientists legal professionals policy makers professionals researchers scholars academicians and more

**Software Failure Investigation** Jan Eloff,Madeleine Bihina Bella,2017-09-07 This book reviews

existing operational software failure analysis techniques and proposes near miss analysis as a novel and new technique for investigating and preventing software failures The authors provide details on how near miss analysis techniques focus on the time window before the software failure actually unfolds so as to detect the high risk conditions that can lead to a major failure They detail how by alerting system users of an upcoming software failure the detection of near misses provides an opportunity to collect at runtime failure related data that is complete and relevant They present a near miss management systems NMS for detecting upcoming software failures which can contribute significantly to the improvement of the accuracy of the software failure analysis A prototype of the NMS is implemented and is discussed in the book The authors give a practical hands on approach towards doing software failure investigations by means of near miss analysis that is of use to industry and academia

*Vegetation, ecosystem processing and carbon budget of wetlands under global change* Xiaoming Kang,Yichao Rui,Yangong Du,Rongxiao Che,Yong Li,Bing Song,2023-04-26 **Exploring Reliable Markers and Prediction Indexes for the Progression from Subjective Cognitive Decline to Cognitive Impairment** Ying Han, Frank Jessen,Jiehui Jiang,2021-11-08 Climate Change and Socio-Ecological Transformation Kousik Das Malakar,Manish

Kumar,Subhash Anand,Gloria Kuzur,2023-07-19 This book focuses on various psycho social and socio physical aspects of climate change and includes a wide range of case studies Included topics are notable climate related social thinking climate vulnerability transformation in socio ecological subsystems bioclimatological urban bioclimatological and socio bioclimatic ideas disasters policy instruments climate justice human rights and sustainability The book distinguishes itself from similar works by including a wide variety of topics and assists policy management in the current and upcoming climate crisis era This book also addresses the Sustainable Development Goals 13 Take Urgent Action to Combat Climate Change and Its Impacts highlighting resilience recovery potential and adaptive capacity climate change measures integrated into policies and planning and knowledge and capacity to mitigate climate change The ideas covered in this book evolved in response to the current climate crisis ideas that the authors believe will aid in societal management and development in the present and future The book is a useful source for planners geographers professionals academics government officials laypeople and others interested in climate change

**Dactylography; Or, The Study of Finger-prints** Henry Faulds,2021-05-19 In Dactylography Or The Study of Finger prints Henry Faulds presents a pioneering examination of fingerprinting as a scientific method of identification melding meticulous observation with empirical research Faulds argues for the reliability of fingerprints as unique identifiers situating his work within the burgeoning fields of forensic science and criminology His literary style is both didactic and engaging employing case studies and real world applications to elucidate the principles of dactylography This seminal text marks a critical moment in the intersection of science and justice reflecting the late 19th century preoccupation with quantifying human identity as a means to enhance societal order Henry Faulds a Scottish physician and one of the early advocates of fingerprinting was influenced by his experiences in Japan where he first observed

the potential of fingerprints for personal identification His background in medicine and interest in anthropology and criminology drove him to develop this method as a tool against crime spurred by the inadequacies of contemporary identification techniques Faulds s career marked by both scientific inquiry and social advocacy informed his conviction that fingerprinting could revolutionize law enforcement This compelling work is essential reading for anyone interested in forensic science criminology or the evolution of identification practices Faulds s groundbreaking insights not only laid the foundations for modern forensic science but also invite readers to contemplate the implications of identity in a rapidly changing world

*An Analytical and Experimental Study of the Ionized Flow Field about a Hemisphere Cylinder and Its Effect on the Radiation Pattern of a Slot Antenna* James T. Curtis,1963 A combined analytical and experimental investigation of the effect of stagnation region chemicalionization non equilibrium phenomena on the aerothermodynamic and electrical properties of the flow field over a hemisphere cylinder at hypersonic speeds was conducted In the analytical studies flow field caluculations were made using several IBM 704 computer programs which account for finite reaction rate processes The experimental phases of the study were done in the Cornell Aeronautical Laboratory 6 Shock Tunnel at a nominally constant velocity of 15 500 ft sec Measurements were made of the surface pressure and heat transfer shock layer pitot pressure and suface layer electrical conductivity on hemishpere cylinder models for a range of values of the stagnation region non equilibrium scaling parameter Author

**The physical environment and health: Implications for the planning and management of healthy cities** Linchuan Yang,Bao-Jie He,Long Cheng,Yibin Ao,Ruoyu Wang,2023-08-30

**Investigation of the Assassination of President John F. Kennedy** United States. Warren Commission,1964

**Methods for Researching Professional Learning and Development** Michael Goller,Eva Kyndt,Susanna Paloniemi,Crina Damşa,2022-08-30 This volume provides alternatives for tackling existing empirical methodological and analytical challenges It does so by providing a broad overview of less established as well as emerging methods which are of great relevance for current research on professional learning and development As such it offers a comprehensive collection of state of the art methodologies and future directions within the workplace learning and professional development research By describing these novel approaches and providing empirical illustrations the book promotes innovative methodologies for investigating professional learning and development It also supports scholars to understand upcoming empirical research and methods and encourages novice as well as established researchers to adopt new empirical strategies beyond traditional ones that have the potential to enrich a better understanding of professional learning and development

**Guide to International Anti-Dumping Practice** Derk Bienen,Gustav Brink,2013-09-01 This book is the first to bring together the actual practices and procedures in all the major users of anti dumping The countries surveyed include all the so called traditional users Australia Canada the EU New Zealand South Africa and the United States as well as the leading new users Argentina Brazil China India Korea Mexico and Turkey The book provides not only an overview of each of the systems considered but also a

detailed reference to the way different jurisdictions have handled specific issues In addition the structure for each chapter is virtually identical allowing for a ready comparative analysis of various topics These topics include the following applicable legislation regulations prescribed guidelines and procedures decision making process and time line the likelihood of an investigation leading to the imposition of measures statistics 1995 2011 with details of actual investigations and duties imposed threshold of injury and calculation of non injurious price establishment of causal link verification reports hearings access to information and other procedural issues reviews and refunds and anti circumvention measures An introductory chapter provides a comparative statistical analysis of the use of anti dumping by the thirteen countries highlighting key features of anti dumping systems in a comparative way The introduction also assesses the important impacts of China s accession to the WTO in 2001 and of the economic and financial crisis of 2008 2009 discusses the treatment of non market economies and notes emerging tendencies in anti dumping reform This is an invaluable work on a key area in trade and competition law written by a team of well known experts With its comprehensive and practical format the book will be of great interest to practitioners dealing with anti dumping cases including trade law practitioners who may have to defend anti dumping cases in different jurisdictions attorneys in international trade law and competition law government officials academics and researchers

**Vehicular Accident Investigation and Reconstruction** Donald J Van Kirk, 2000-09-19

Accident investigation reconstruction is more than just a job or even a profession it is more art than science and requires a dedication greater than a commitment of time It takes constant reading study and analysis of accident information and case reconstructions to keep improving your performance both in the field and in the courtroom

**Global Environmental**

**Change** Committee on Global Change Research, Policy Division, Policy and Global Affairs, National Research

Council, 1999-09-28 How can we understand and rise to the environmental challenges of global change One clear answer is to understand the science of global change not solely in terms of the processes that control changes in climate and the composition of the atmosphere but in how ecosystems and human society interact with these changes In the last two decades of the twentieth century a number of such research efforts supported by computer and satellite technology have been launched Yet many opportunities for integration remain unexploited and many fundamental questions remain about the earth s capacity to support a growing human population This volume encourages a renewed commitment to understanding global change and sets a direction for research in the decade ahead Through case studies the book explores what can be learned from the lessons of the past 20 years and what are the outstanding scientific questions Highlights include Research imperatives and strategies for investigators in the areas of atmospheric chemistry climate ecosystem studies and human dimensions of global change The context of climate change including lessons to be gleaned from paleoclimatology Human responses to and forcing of projected global change This book offers a comprehensive overview of global change research to date and provides a framework for answering urgent questions

## Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Investigating Patterns Of Change**

In a world inundated with screens and the cacophony of quick conversation, the profound power and psychological resonance of verbal artistry frequently diminish in to obscurity, eclipsed by the constant assault of noise and distractions. Yet, situated within the lyrical pages of **Investigating Patterns Of Change**, a interesting perform of fictional splendor that pulses with raw feelings, lies an remarkable trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, this magical opus courses visitors on a psychological odyssey, softly exposing the latent potential and profound impact stuck within the intricate web of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is key styles, dissect their fascinating publishing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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