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Physical Science Paper 1 November 2014 Memo

Michal Rosen-Zvi



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Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on Applied and Theoretical Statistics, Committee on Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions, 2017-02-06 The Office of the Under Secretary of Defense Personnel Readiness referred to throughout this report as P R is responsible for the total force management of all Department of Defense DoD components including the recruitment readiness and retention of personnel Its work and policies are supported by a number of organizations both within DoD including the Defense Manpower Data Center DMDC and externally including the federally funded research and development centers FFRDCs that work for DoD P R must be able to answer questions for the Secretary of Defense such as how to recruit people with an aptitude for and interest in various specialties and along particular career tracks and how to assess on an ongoing basis service members career satisfaction and their ability to meet new challenges P R must also address larger scale questions such as how the current realignment of forces to the Asia Pacific area and other regions will affect recruitment readiness and retention While DoD makes use of large scale data and mathematical analysis in intelligence surveillance reconnaissance and elsewhere exploiting techniques such as complex network analysis machine learning streaming social media analysis and anomaly detection these skills and capabilities have not been applied as well to the personnel and readiness enterprise Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions offers and roadmap and implementation plan for the integration of data analysis in support of decisions within the purview of P R

Freedom's Laboratory Audra J. Wolfe, 2020-08-04 The Cold War ended long ago but the language of science and freedom continues to shape public debates over the relationship between science and politics in the United States Scientists like to proclaim that science knows no borders Scientific researchers follow the evidence where it leads their conclusions free of prejudice or ideology But is that really the case In Freedom's Laboratory Audra J Wolfe shows how these ideas were tested to their limits in the high stakes propaganda battles of the Cold War Wolfe examines the role that scientists in concert with administrators and policymakers played in American cultural diplomacy after World War II During this period the engines of US propaganda promoted a vision of science that highlighted empiricism objectivity a commitment to pure research and internationalism Working both overtly and covertly wittingly and unwittingly with governmental and private organizations scientists attempted to decide what exactly they meant when they referred to scientific freedom or the US ideology More frequently however they defined American science merely as the opposite of Communist science Uncovering many startling episodes of the close relationship between the US government and private scientific groups Freedom's Laboratory is the first work to explore science's link to US propaganda and psychological warfare campaigns during the Cold War Closing in the present day with a discussion of the 2017 March for

Science and the prospects for science and science diplomacy in the Trump era the book demonstrates the continued hold of Cold War thinking on ideas about science and politics in the United States **The War Report** Annyssa Bellal,2015-12-10

This War Report provides detailed information on every armed conflict which took place during 2014 offering an unprecedented overview of the nature range and impact of these conflicts and the legal issues they created In Part I the Report describes its criteria for the identification and classification of armed conflicts under international law and the legal consequences that flow from this classification It sets out a list of armed conflicts in 2014 categorising each as international non international or a military occupation with estimates of civilian and military casualties In Part II each of these conflicts are examined in more detail with an overview of the belligerents means and methods of warfare the applicable treaties and rules and any prosecutions for investigations into or robust allegations of war crimes Part III of the Report provides detailed thematic analysis of key legal developments which arose in the context of these conflicts allowing for a more in depth reflection on cross cutting questions and controversies The Report gives a full and accessible overview of armed conflicts in 2014 It should be the first port of call for everyone working in the field **A Homology Theory for Smale Spaces** Ian F. Putnam,2014-09-29

The author develops a homology theory for Smale spaces which include the basics sets for an Axiom A diffeomorphism It is based on two ingredients The first is an improved version of Bowen s result that every such system is the image of a shift of finite type under a finite to one factor map The second is Krieger s dimension group invariant for shifts of finite type He proves a Lefschetz formula which relates the number of periodic points of the system for a given period to trace data from the action of the dynamics on the homology groups The existence of such a theory was proposed by Bowen in the 1970s **Florida Springs** Christopher F. Meindl,2024-10-15

This book provides a clear and comprehensive overview of the geography history science and politics of Florida s freshwater springs informing readers about the deep past and current issues facing these natural wonders of the state **How Data Happened** Chris Wiggins,Matthew L. Jones,2023-03-21

Fascinating Jill Lepore The New Yorker A sweeping history of data and its technical political and ethical impact on our world From facial recognition capable of checking people into flights or identifying undocumented residents to automated decision systems that inform who gets loans and who receives bail each of us moves through a world determined by data empowered algorithms But these technologies didn t just appear they are part of a history that goes back centuries from the census enshrined in the US Constitution to the birth of eugenics in Victorian Britain to the development of Google search Expanding on the popular course they created at Columbia University Chris Wiggins and Matthew L Jones illuminate the ways in which data has long been used as a tool and a weapon in arguing for what is true as well as a means of rearranging or defending power They explore how data was created and curated as well as how new mathematical and computational techniques developed to contend with that data serve to shape people ideas society military operations and economies Although technology and mathematics are at its heart the story of data ultimately concerns an unstable game among states

corporations and people How were new technical and scientific capabilities developed who supported advanced or funded these capabilities or transitions and how did they change who could do what from what and to whom Wiggins and Jones focus on these questions as they trace data's historical arc and look to the future By understanding the trajectory of data where it has been and where it might yet go Wiggins and Jones argue that we can understand how to bend it to ends that we collectively choose with intentionality and purpose

Law, Death, and Robots Keri Grieman, 2024-10-17 Can the law keep up with AI This book examines liability and regulation for artificial intelligence causing serious physical harm both now and in the future While AI moves quickly regulation follows more slowly an increasing problem for an evolutionary fast paced emerging technology AI has the potential to save lives but in doing so will have the potential to take them as well How do we future proof law and regulation to incentivise life saving innovation as safely as possible This book details how to regulate AI in high risk civil applications for example automated vehicles and medicine addressing both liability and regulatory structure It highlights crucial liability themes for technology governance provides tools to bridge the gap between regulators and technologists examines jurisdictional approaches to AI regulation in the EU UK USA and Singapore and ultimately suggests a jurisdiction agnostic blueprint for regulation

Fundamental Solutions and Local Solvability for Nonsmooth

Hormander's Operators Marco Bramanti, Luca Brandolini, Maria Manfredini, Marco Pedroni, 2017-09-25 The authors consider operators of the form in a bounded domain of where are nonsmooth Hormander's vector fields of step such that the highest order commutators are only Hölder continuous Applying Levi's parametrix method the authors construct a local fundamental solution for and provide growth estimates for and its first derivatives with respect to the vector fields Requiring the existence of one more derivative of the coefficients the authors prove that also possesses second derivatives and they deduce the local solvability of constructing by means of a solution to with Hölder continuous The authors also prove estimates on this solution

Elliptic PDEs on Compact Ricci Limit Spaces and Applications

Shouhei Honda, 2018-05-29 In this paper the author studies elliptic PDEs on compact Gromov Hausdorff limit spaces of Riemannian manifolds with lower Ricci curvature bounds In particular the author establishes continuities of geometric quantities which include solutions of Poisson's equations eigenvalues of Schrödinger operators generalized Yamabe constants and eigenvalues of the Hodge Laplacian with respect to the Gromov Hausdorff topology The author applies these to the study of second order differential calculus on such limit spaces

Weakly Modular Graphs and Nonpositive Curvature

Jérémy Chalopin, Victor Chepoi, Hiroshi Hirai, Damian Osajda, 2021-06-18 This article investigates structural geometrical and topological characterizations and properties of weakly modular graphs and of cell complexes derived from them The unifying themes of our investigation are various nonpositive curvature and local to global properties and characterizations of weakly modular graphs and their subclasses Weakly modular graphs have been introduced as a far reaching common generalization of median graphs and more generally of modular and orientable modular graphs Helly graphs bridged graphs and dual polar graphs occurring under different

disguises 1 skeletons collinearity graphs covering graphs domains etc in several seemingly unrelated elds of mathematics Metric graph theory Geometric group theory Incidence geometries and buildings Theoretical computer science and combinatorial optimization We give a local to global characterization of weakly modular graphs and their sub classes in terms of simple connectedness of associated triangle square complexes and speci c local combinatorial conditions In particular we revisit characterizations of dual polar graphs by Cameron and by Brouwer Cohen We also show that disk Helly graphs are precisely the clique Helly graphs with simply connected clique complexes With ℓ_1 embeddable weakly modular and weakly modular graphs we associate high dimensional cell complexes having several strong topological and geometrical properties contractibility and the CAT 0 property Their cells have a speci c structure they are basis polyhedra of even matroids in the rst case and orthoscheme complexes of gated dual polar subgraphs in the second case We resolve some open problems concerning subclasses of weakly modular graphs we prove a Brady McCammond conjecture about CAT 0 metric on the orthoscheme

Psychology David G. Myers, 2007 *Physical Science* , 1981

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web determination of a rate law and activation energy in this experiment glass beakers pipettes and a hotplate were utilized to set up the procedures a solution of deionized water a buffer potassium iodide KI sodium thiosulfate $\text{Na}_2\text{S}_2\text{O}_3$ starch and hydrogen peroxide H_2O_2 were used in order to calculate the rate of reaction

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