Pixl Maths Papers June 2014

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Climates. Habitats. Environments. MDPI

A large literature exists on trabecular and cortical bone morphology. The engineering performance of bone, implied from its 3d architecture, is often the endpoint of bone biology experiments, being clinically relevant to bone fracture. How and why does bone travel along its complex spatio-temporal trajectory to acquire its architecture? The question "why" can have two meanings. The first, "teleological - why is an architecture advantageous?" – is the domain of substantial biomechanical research to date. The second, "etiological – how did an architecture come about?" – has received far less attention. This Frontiers Bone Research Topic invited contributions addressing this "etiological why" – what mechanisms can coordinate the activity of bone forming and resorbing cells to produce the observed complex and efficient bone architectures? One mechanism is proposed – chaotic nonlinear pattern formation (NPF) which underlies – in a unifying way – natural structures as disparate as trabecular bone, swarms of birds flying or shoaling fish, island formation, fluid turbulence and others. At the heart of NPF is the fact that simple rules operating between interacting elements multiplied and repeated many times, lead to complex and structured patterns. This paradigm of growth and form leads to a profound link between bone regulation and its architecture: in bone "the architecture is the regulation". The former is the emergent consequence of the latter. Whatever mechanism does determine bone's developing architecture has to operate at the level of individual sites of formation and resorption and coupling between the two. This has implications as to how we understand the effect on bone of agents such as gene products or drugs. It may be for instance that the "tuning" of coupling between formation and resorption might be as important as the achievement of enhanced bone volume. The ten articles that were contributed to this Topic were just what we hoped for – a snapshot of leading edge bone biology research which addresses the question of how bone gets its shape. We hope that you find these papers thought-provoking, and that they might stimulate new ideas in the research into bone architecture, growth and adaptation, and how to preserve healthy

bone from gestation and childhood until old age.

Putting the "Why" Back into Bone "Archytecture" Skyhorse

Clueless: American Youth in the 1990s is a timely contribution to the increasingly prominent academic field of youth film studies. The book draws on the social context to the film’s release, a range of film industry perspectives including marketing, audience reception and franchising, as well as postmodern theory and feminist film theory to assert the cultural and historical significance of Amy Heckerling’s film and reaffirm its reputation as one of the defining teen films of the 1990s. Lesley Speed examines how the film channels aspects of Anita Loos’ 1925 novel Gentlemen Prefer Blondes, the 1960s television series Gidget and Jane Austen’s Emma, to present a heightened, optimistic view of contemporary American teenage life. Although seemingly apolitical, Speed makes the case for Clueless as a feminist exploration of relationships between gender, comedy and consumer culture, centring on a contemporary version of the ‘dumb blonde’ type. The film is also proved to embrace diversity in its depiction of African American characters and contributing to an increase in gay teenagers on screen. Lesley Speed concludes her analysis by tracking the rise of the Clueless franchise and cult following. Both helped to cement the film in popular consciousness, inviting fans to inhabit its fantasy world through spinoff narratives on television and in print, public viewing rituals, revivalism and vintage fashion.

Technology in Education. Innovations for Online Teaching and Learning Springer

If we want our pupils to develop fluency, understanding and the ability to solve complex problems, then it is vital that teachers develop the ability to select, adapt and design appropriate mathematical tasks. In 'Mathematical Tasks: The Bridge Between Teaching and Learning', Chris McGrane and Mark McCourt a range of practical approaches, strategies and principles behind the design and effective use of tasks in the mathematics classroom that lead to all pupils becoming successful learners. First-hand interviews with world class mathematics education experts and practicing teachers bring to life the ideas behind how tasks can act as a bridge between what the teacher wants the pupil to make sense of and what the pupil actually does makes sense of; tasks are how we enable pupils to enact mathematics - it is only by being mathematical that pupils can truly make connections across mathematical ideas and understand the bigger picture. This is a book for classroom teachers. Chris McGrane offers a range of practical examples for nurturing deep learning in mathematics that can be adapted and embedded in one's own classroom practice. This is also a book for those who are interested in the theory behind tasks. Chris and his interviewees examine the key role tasks play in shaping learning, teaching, curriculum and assessment. Suitable for teachers at all stages in their careers and teachers are encouraged to return to the book from time to time over the years to notice how their use

of tasks in the classroom changes as they themselves develop.

Creativity, Inc. (The Expanded Edition) Springer Computer Processing of Remotely-Sensed Images A thorough introduction to computer processing of remotely-sensed images, processing methods, and applications Remote sensing is a crucial form of measurement that allows for the gauging of an object or space without direct physical contact, allowing for the assessment and recording of a target under conditions which would normally render access difficult or impossible. This is done through the analysis and interpretation of electromagnetic radiation (EMR) that is reflected or emitted by an object, surveyed and recorded by an observer or instrument that is not in contact with the target. This methodology is particularly of importance in Earth observation by remote sensing, wherein airborne or satellite-borne instruments of EMR provide data on the planet's land, seas, ice, and atmosphere. This permits scientists to establish relationships between the measurements and the nature and distribution of phenomena on the Earth's surface or within the atmosphere. Still relying on a visual and conceptual approach to the material, the fifth edition of this successful textbook provides students with methods of computer processing of remotely sensed data and introduces them to environmental applications which make use of remotely-sensed images. The new edition's content has been rearranged to be more clearly focused on image processing methods and applications in remote sensing with new examples, including material on the Copernicus missions, microsatellites and recently launched SAR satellites, as well as time series analysis methods. The fifth edition of Computer Processing of Remotely-Sensed Images also contains: A cohesive presentation of the fundamental components of Earth observation remote sensing that is easy to understand and highly digestible Largely non-technical language providing insights into more advanced topics that may be too difficult for a non-mathematician to understand Illustrations and example boxes throughout the book to illustrate concepts, as well as revised examples that reflect the latest information References and links to the most up-to-date online and open access sources used by students Computer Processing of Remotely-Sensed Images is a highly insightful textbook for advanced undergraduates and postgraduate students taking courses in remote sensing and GIS in Geography, Geology, and Earth & Environmental Science departments.

Edinburgh Companion to the First World War and the Arts Random House Providing a succinct introduction to the systemization, noise sources, and signal processes of image sensor technology, Essential Principles of Image Sensors discusses image information and its four factors: space, light intensity, wavelength, and time. Featuring clarifying and insightful illustrations, this must-have text: Explains how image sensors convert optical image information into image signals Treats space, wavelength, and time as digitized built-in coordinate points in image sensors and systems Details the operational principles, pixel technology, and evolution of CCD, MOS, and CMOS sensors with updated technology Describes sampling theory, presenting unique figures demonstrating the importance of phase Explores causes for the decline of image information quality In a straightforward

manner suitable for beginners and experts alike, Essential Principles of Image Sensors covers key topics related to digital imaging including semiconductor physics, component elements necessary for image sensors, silicon as a sensitive material, noises in sensors, and more.

Photon-Counting Image Sensors Springer

This book constitutes extended papers from the 5th International Conference on Technology in Education, ICTE 2020, held in August 2020. Due to the COVID-19 pandemic the conference was held online. The 30 papers presented in this volume were carefully reviewed and selected from 79 submissions. They are organized in topical sections on instructional technology; learning analysis and assessment; learning environment; open and collaborative learning; technology and education.

Computing in Civil and Building Engineering (2014) Springer Nature

The Encyclopedia of Mathematical Geosciences is a complete and authoritative reference work. It provides concise explanation on each term that is related to Mathematical Geosciences. Over 300 international scientists, each expert in their specialties, have written around 350 separate articles on different topics of mathematical geosciences including contributions on Artificial Intelligence, Big Data, Compositional Data Analysis, Geomathematics, Geostatistics, Geographical Information Science, Mathematical Morphology, Mathematical Petrology, Multifractals, Multiple Point Statistics, Spatial Data Science, Spatial Statistics, and Stochastic Process Modeling. Each topic incorporates cross-referencing to related articles, and also has its own reference list to lead the reader to essential articles within the published literature. The entries are arranged alphabetically, for easy access, and the subject and author indices are comprehensive and extensive.

Understanding Flood Preparedness Academic Press

Drawing Futures brings together international designers and artists for speculations in contemporary drawing for art and architecture.Despite numerous developments in technological manufacture and computational design that provide new grounds for designers, the act of drawing still plays a central role as a vehicle for speculation. There is a rich and long history of drawing tied to innovations in technology as well as to revolutions in our philosophical understanding of the world. In reflection of a society now underpinned by computational networks and interfaces allowing hitherto unprecedented views of the world, the changing status of the drawing and its representation as a political act demands a platform for reflection and innovation. Drawing Futures will present a compendium of projects, writings and interviews that critically reassess the act of drawing and where its future may lie.Drawing Futures focuses on the discussion of how the field of drawing may expand synchronously alongside technological and computational developments. The book coincides with an international conference of the same name, taking place at The Bartlett School of Architecture, UCL, in November 2016. Bringing together practitioners from many creative fields, the book discusses how drawing is changing in relation to new technologies for the production and dissemination of ideas.

Getting Started with Arduino Frontiers Media SA

A new exploration of literary and artistic responses to WW1 from 1914 to the presentThis authoritative reference work examines literary and artistic responses to the wars upheavals across a wide range of media and genres, from poetry to pamphlets, sculpture to

television documentary, and requiems to war reporting. Rather than looking at particular forms of artistic expression in isolation and focusing only on the war and inter-war period, the 26 essays collected in this volume approach artistic responses to the war from a wide variety of angles and, where appropriate, pursue their inquiry into the present day. In 6 sections, covering Literature, the Visual Arts, Music, Periodicals and Journalism, Film and Broadcasting, and Publishing and Material Culture, a wide range of original chapters from experts across literature and the arts examine what means and approaches were employed to respond to the shock of war as well as asking such key questions as how and why literary and artistic responses to the war have changed over time, and how far later works of art are responses not only to the war itself, but to earlier cultural production.Key FeaturesOffers new insights into the breadth and depth of artistic responses to WWIEstablishes links and parallels across a wide range of different media and genresEmphasises the development of responses in different fields from 1914 to the present

Active Experiments in Space: Past, Present, and Future Springer
The volume LNCS 8866 constitutes the refereed proceedings of the 11th International Symposium on Neural Networks, ISNN 2014, held in Hong Kong and Macao, China on November/ December 2014. The 71 revised full papers presented were carefully reviewed and selected from 119 submissions. These papers cover all major topics of the theoretical research, empirical study and applications of neural networks research as follows. The focus is on following topics such as analysis, modeling, and applications.

Mathematical Methods for Curves and Surfaces John Catt
A new form of investigative practice that uses architecture as an optical device to investigate armed conflicts and environmental destruction. In recent years, the group Forensic Architecture began using novel research methods to undertake a series of investigations into human rights abuses. Today, the group provides crucial evidence for international courts and works with a wide range of activist groups, NGOs, Amnesty International, and the UN. Forensic Architecture has not only shed new light on human rights violations and state crimes across the globe, but has also created a new form of investigative practice that bears its name. The group uses architecture as an optical device to investigate armed conflicts and environmental destruction, as well as to cross-reference a variety of evidence sources, such as new media, remote sensing, material analysis, witness testimony, and crowd-sourcing. In Forensic Architecture, Eyal Weizman, the group's founder, provides, for the first time, an in-depthintroduction to the history, practice, assumptions, potentials, and double binds of this practice. The book includes an extensive array of images, maps, and detailed documentation that records the intricate work the group has performed. Traversing multiple scales and durations, the case studies in this volume include the analysis of the shrapnel fragments in a room struck by drones in Pakistan, the reconstruction of a contested shooting in the West Bank, the architectural recreation of a secret Syrian detention center from the memory of its survivors, a blow-by-blow account of a day-long battle in Gaza, and an investigation of environmental violence and climate change in the Guatemalan highlands and elsewhere. Weizman's Forensic Architecture,stunning and shocking in its critical narrative, powerful images,and daring investigations, presents a new form of public truth, technologically, architecturally, and aesthetically produced. The practice calls for a transformative politics in which architecture as a field of knowledge and a mode of interpretation exposes and confronts ever-new forms of state violence and secrecy.

Advances in Multimedia Information Processing - PCM 2014 MIT Press
This two-volume set (CCIS 1393 and CCIS 1394) constitutes selected and

revised papers of the 4th International Conference on Advanced Informatics for Computing Research, ICAICR 2020, held in Gurugram, India, in December 2020. The 34 revised full papers and 51 short papers presented were carefully reviewed and selected from 306 submissions. The papers are organized in topical sections on computing methodologies; hardware; networks; security and privacy.

Cross-Cultural Design Springer

The book looks at the factors influencing the level of preparedness of communities exposed to flooding. It is based on original research carried out in twelve areas in southern Poland that suffered serious flood damage in the past thirty years. The underlying research was intended, on the one hand, to verify modern concepts explaining the behaviour of people who were exposed to natural hazards and, on the other, to explore the influence of the local natural, social, historical and economic contexts that could modify that behaviour. The book has three main threads: the social memory of floods and their image as it evolves in time; the influence of social and economic conditions (social vulnerability) on the preparedness to take on flood mitigation measures; and the role of risk communication in strengthening flood resilience. The main body of the work is based on 1) surveys carried out among the flood-affected population and members of local crisis services, 2) interviews with the flood-affected population and with members of administration and services (Police, Fire Dept.) with a history of rescue missions, and 3) an analysis of social media content and of local administration and government agency websites and land-use planning documents. The primary data collected by the authors was supplemented by statistics on the impact of floods occurring in the study areas. The data is presented in tables, graphs and maps for easier comprehension. The book is aimed at researchers and students, as well as at practitioners interested in risk perception, flood memories, social vulnerability & resilience studies, social capacity building, risk communication & education.

Innovative Security Solutions for Information Technology and Communications Springer

This volume constitutes the thoroughly refereed post-conference proceedings of the 8th International Conference on Mathematical Methods for Curves and Surfaces, MMCS 2012, held in Oslo, Norway, in June/July 2012. The 28 revised full papers presented were carefully reviewed and selected from 135 submissions. The topics range from mathematical analysis of various methods to practical implementation on modern graphics processing units. The papers reflect the newest developments in these fields and also point to the latest literature.

Libertarians on the Prairie Springer Nature

The co-founder and longtime president of Pixar updates and expands his 2014 New York Times bestseller on creative leadership, reflecting on the management principles that built Pixar ' s singularly successful culture, and on all he learned during the past nine years that allowed Pixar to retain its creative culture while continuing to evolve. " Might be the most thoughtful management book ever. " —Fast Company For nearly thirty years, Pixar has dominated the world of animation, producing such beloved films as the Toy Story trilogy, Finding Nemo, The Incredibles, Up, and WALL-E, which have gone on to set box-office records and garner eighteen Academy Awards. The joyous storytelling, the inventive plots, the emotional authenticity: In some ways, Pixar movies are an object lesson in what creativity really is. Here, Catmull reveals the ideals and techniques that have made Pixar so widely admired—and so profitable. As a young man, Ed Catmull had a dream: to make the first computer-animated movie. He nurtured that dream as a Ph.D. student, and then forged a partnership with George Lucas that led, indirectly,

to his founding Pixar with Steve Jobs and John Lasseter in 1986. Nine years later, Toy Story was released, changing animation forever. The essential ingredient in that movie ' s success—and in the twenty-five movies that followed—was the unique environment that Catmull and his colleagues built at Pixar, based on philosophies that protect the creative process and defy convention, such as: · Give a good idea to a mediocre team and they will screw it up. But give a mediocre idea to a great team and they will either fix it or come up with something better. · It ' s not the manager ' s job to prevent risks. It ' s the manager ' s job to make it safe for others to take them. · The cost of preventing errors is often far greater than the cost of fixing them. · A company ' s communication structure should not mirror its organizational structure. Everybody should be able to talk to anybody. Creativity, Inc. has been significantly expanded to illuminate the continuing development of the unique culture at Pixar. It features a new introduction, two entirely new chapters, four new chapter postscripts, and changes and updates throughout. Pursuing excellence isn ' t a one-off assignment but an ongoing, day-in, day-out, full-time job. And Creativity, Inc. explores how it is done.

Forensic Architecture John Wiley & Sons

Generations of children have fallen in love with the pioneer saga of the Ingalls family, of Pa and Ma, Laura and her sisters, and their loyal dog, Jack. Laura Ingalls Wilder's Little House books have taught millions of Americans about frontier life, giving inspiration to many and in the process becoming icons of our national identity. Yet few realize that this cherished bestselling series wandered far from the actual history of the Ingalls family and from what Laura herself understood to be central truths about pioneer life. In this groundbreaking narrative of literary detection, Christine Woodside reveals for the first time the full extent of the collaboration between Laura and her daughter, Rose Wilder Lane. Rose hated farming and fled the family homestead as an adolescent, eventually becoming a nationally prominent magazine writer, biographer of Herbert Hoover, and successful novelist, who shared the political values of Ayn Rand and became mentor to Roger Lea MacBride, the second Libertarian presidential candidate. Drawing on original manuscripts and letters, Woodside shows how Rose reshaped her mother's story into a series of heroic tales that rebutted the policies of the New Deal. Their secret collaboration would lead in time to their estrangement. A fascinating look at the relationship between two strong-willed women, Libertarians on the Prairie is also the deconstruction of an American myth. Skyhorse Publishing, along with our Arcade, Good Books, Sports Publishing, and Yucca imprints, is proud to publish a broad range of biographies, autobiographies, and memoirs. Our list includes biographies on well-known historical figures like Benjamin Franklin, Nelson Mandela, and Alexander Graham Bell, as well as villains from history, such as Heinrich Himmler, John Wayne Gacy, and O. J. Simpson. We have also published survivor stories of World War II, memoirs about overcoming adversity, first-hand tales of adventure, and much more. While not every title we publish becomes a New York Times bestseller or a national bestseller, we are committed to books on subjects that are sometimes overlooked and to authors whose work might not otherwise find a home.

A Biography of the Pixel Springer

Artists and writers go beyond disciplinary boundaries and linear histories to address the fight for environmental justice, uniting the Asia-Pacific vantage point with international discourse. Modeling the curatorial as a method for uniting cultural production and science, Climates. Habitats. Environments. weaves together image and text to address the global climate crisis. Through exhibitions, artworks, and essays, artists and writers transcend disciplinary boundaries and linear histories to bring their knowledge and experience to bear on the fight for environmental justice. In doing so, they draw on the rich cultural heritage of the Asia-Pacific, in conversation with international discourse, to demonstrate transdisciplinary solution-seeking. Experimental in form as well as in method, Climates. Habitats. Environments. features an inventive book design by mono.studio that puts word and image on equal footing, offering a multiplicity of media,

interpretations, and manifestations of interdisciplinary research. For example, botanist Matthew Hall draws on Ovid ' s Metamorphoses to discuss human-plant interpenetration; curator and writer Venus Lau considers how spectrality consumes—and is consumed—in animation and film, literature, music, and cuisine; and critical theorist and filmmaker Elizabeth Povinelli proposes " Water Sense " as a geontological approach to " the question of our connected and differentiated existence, " informed by the " ancestral catastrophe of colonialism. " Artists excavate the natural and cultural DNA of indigo, lacquer, rattan, and mulberry; works at the intersection of art, design, and architecture explore " The Posthuman City " ; an ongoing research project investigates the ecological urgencies of Pacific archipelagos. The works of art, the projects, and the majority of the texts featured in the book were commissioned by NTU Centre for Contemporary Art Singapore. Copublished with NTU Centre for Contemporary Art Singapore

Death in the Mountains Oxford University Press

Presents an introduction to the open-source electronics prototyping platform.

Clueless Springer Nature

This volume constitutes the thoroughly refereed post-conference proceedings of the 8th International Conference on Curves and Surfaces, held in Paris, France, in June 2014. The conference had the overall theme: "Representation and Approximation of Curves and Surfaces and Applications". The 32 revised full papers presented were carefully reviewed and selected from 39 submissions. The scope of the conference was on following topics: approximation theory, computer-aided geometric design, computer graphics and visualization, computational geometry and topology, geometry processing, image and signal processing, interpolation and smoothing, mesh generation, finite elements and splines, scattered data processing and learning theory, sparse and high-dimensional approximation, subdivision, wavelets and multi-resolution method.

Breast Imaging Routledge

"This is the true story of the murder of Artemio Bruni, a peasant farmer in the mountains of Casentino, north-eastern Tuscany, in the winter of 1907. Artemio was my husband's great-grandfather. "For reasons not understood by my husband's family, Grandpa Artemio's death was never investigated. It was not reported to the police, nor did Bruna Bruni, Artemio's wife, ever demand justice. How could that be possible, I asked my mother-in-law - was it because of the mafia? 'No, no, you don't understand,' she answered. 'Things were different in the mountains one hundred years ago. Grandpa and Grandma were poor farmers, no one could have cared less about them. Grandpa was a nobody and life was cheap in Tuscany then.'" When Australian author and journalist Lisa Clifford moved to Florence to be with her Italian husband, an unsolved murder in his family became part of her life. The more Lisa found out about it, the more intrigued she became - so much so that she was driven to investigate the tragic events of a century ago. Death in the Mountains is Lisa's brilliant recreation of the life and death of Artemio Bruni, and an evocation of the world of the Tuscan mountains in the early 20th century. It is both a murder mystery and a beautifully observed picture of a lost Italy.