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FJLYB5 - FERGUSON BENJAMIN

#1 NEW YORK TIMES BESTSELLER • “The story of modern medicine and bioethics—and, indeed, race relations—is refracted beautifully, and movingly.”—*Entertainment Weekly* NOW A MAJOR MOTION PICTURE FROM HBO® STARRING OPRAH WINFREY AND ROSE BYRNE • ONE OF THE “MOST INFLUENTIAL” (CNN), “DEFINING” (LITHUB), AND “BEST” (THE PHILADELPHIA INQUIRER) BOOKS OF THE DECADE • ONE OF ESSENCE’S 50 MOST IMPACTFUL BLACK BOOKS OF THE PAST 50 YEARS • WINNER OF THE CHICAGO TRIBUNE HEARTLAND PRIZE FOR NONFICTION NAMED ONE OF THE BEST BOOKS OF THE YEAR BY The New York Times Book Review • *Entertainment Weekly* • *O: The Oprah Magazine* • *NPR* • *Financial Times* • *New York* • *Independent (U.K.)* • *Times (U.K.)* • *Publishers Weekly* • *Library Journal* • *Kirkus Reviews* • *Booklist* • *Globe and Mail* Her name was Henrietta Lacks, but scientists know her as HeLa. She was a poor Southern tobacco farmer who worked the same land as her slave ancestors, yet her cells—taken without her knowledge—became one of the most important tools in medicine: The first “immortal” human cells grown in culture, which are still alive today, though she has been dead for more than sixty years. HeLa cells were vital for developing the polio vaccine; uncovered secrets of cancer, viruses, and the atom bomb’s effects; helped lead to important advances like in vitro fertilization, cloning, and gene mapping; and have been bought and sold by the billions. Yet Henrietta Lacks remains virtually unknown, buried in an unmarked grave. Henrietta’s family did not learn of her “immortality” until more than twenty years after her death, when scientists investigating HeLa began using her husband and children in research without informed consent. And though the cells had launched a multimillion-dollar industry that sells human biological materials, her family never saw any of the profits. As Rebecca Skloot so brilliantly shows, the story of the Lacks family—past and present—is inextricably connected to the dark history of experimentation on African Americans, the birth of bioethics, and the legal battles over whether we control the stuff we are made of. Over the decade it took to uncover this story, Rebecca became enmeshed in the lives of the Lacks family—especially Henrietta’s daughter Deborah. Deborah was consumed with questions: Had scientists cloned her mother? Had they killed her to harvest her cells? And if her mother was so important to medicine, why couldn’t her children afford health insurance? Intimate in feeling, astonishing in scope, and impossible to put down, *The Immortal Life of Henrietta Lacks* captures the beauty and drama of scientific discovery, as well as its human consequences.

Technology is at the heart of learning for all of us and every teacher needs to be using social media, mobile technologies and transformational digital learning opportunities as an integral part of their range of strategies for helping students make the maximum progress. In this book in the 'Perfect' series, Mark Anderson, the ICT Evangelist, takes the technology-related elements of all the recent subject reports from Ofsted and using them offers clear and practical strategies that are proven to be successful in classrooms and offers up ideas for how they can be turned into a daily reality for all teachers.

This book and its companion volume, LNCS vol. 8794 and 8795 constitute the proceedings of the 5th International Conference on Swarm Intelligence, ICSI 2014, held in Hefei, China in October 2014. The 107 revised full papers presented were carefully reviewed and selected from 198 submissions. The papers are organized in 18 cohesive sections, 3 special sessions and one competitive session covering all major topics of swarm intelligence research and development such as novel swarm-based search methods; novel optimization algorithm; particle swarm optimization; ant colony optimization for travelling salesman problem; artificial bee colony algorithms; artificial immune system; evolutionary algorithms; neural networks and fuzzy methods; hybrid methods; multi-objective optimization; multi-agent systems; evolutionary clustering algorithms; classification methods; GPU-based methods; scheduling and path planning; wireless sensor networks; power system optimization; swarm intelligence in image and video processing; applications of swarm intelligence to management problems; swarm intelligence for real-world application.

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Explores the importance of style in education by examining the individual differences that are labeled as learning styles, teaching styles, leadership styles, and psychological types.

The soft crash of waves that blissfully block out all other noise, the smell of two-stroke and lawn clippings, the first sip of cold beer, the laboured whir of the ceiling fan, the sound of a bag of ice hitting the pavement, that feeling of salt on skin and even the smell of prawns on bin night. Comedian Tim Ross uses the Australian Summer as a back drop for a new collection of nostalgic

short stories.

Hidden in the mountains of East Tennessee, an eleven-year old goes about the business of being a boy during the summer of 1970. Within a balance of terror and innocence, he bears silent witness to ghosts of the dead and the cruelties of a teenage killer while local justice plays out in a community carved from legacies of coal mining and religion.

This book constitutes the refereed proceedings of the 6th International Symposium on Leveraging Applications of Formal Methods, Verification, and Validation, ISOla 2014, held in Corfu, Greece, in October 2014, and the 5th International Symposium, ISOla 2012, held in Heraklion, Crete, Greece, in October 2012. The 9 revised full papers presented were carefully reviewed and selected from 22 submissions. This volume combines the post-conference proceedings of the 2014 Doctoral Symposium and the 2014 Tutorial “Automata Learning in Practice” with the post-conference publication of selected contributions from the Tracks “Process-Oriented Geoinformation Systems and Applications” and “Processes and Data Integration in the Networked Healthcare” of ISOla 2012.

To enhance the overall viewing experience (for cinema, TV, games, AR/VR) the media industry is continuously striving to improve image quality. Currently the emphasis is on High Dynamic Range (HDR) and Wide Colour Gamut (WCG) technologies, which yield images with greater contrast and more vivid colours. The uptake of these technologies, however, has been hampered by the significant challenge of understanding the science behind visual perception. Vision Models for High Dynamic Range and Wide Colour Gamut Imaging provides university researchers and graduate students in computer science, computer engineering, vision science, as well as industry R&D engineers, an insight into the science and methods for HDR and WCG. It presents the underlying principles and latest practical methods in a detailed and accessible way, highlighting how the use of vision models is a key element of all state-of-the-art methods for these emerging technologies. Presents the underlying vision science principles and models that are essential to the emerging technologies of HDR and WCG. Explores state-of-the-art techniques for tone and gamut mapping. Discusses open challenges and future directions of HDR and WCG research.

Abstract: Similarity coefficient mapping (SCM) aims to improve the morphological evaluation of weighted magnetic resonance imaging. However, how to interpret the generated SCM map is still pending. Moreover, is it probable to extract tissue dissimilarity messages based on the theory behind SCM? The primary purpose of this paper is to address these two questions. First, the theory of SCM was interpreted from the perspective of linear fitting. Then, a term was embedded for tissue dissimilarity information. Finally, our method was validated with sixteen human brain image series from multi-echo. Generated maps were investigated from signal-to-noise ratio (SNR) and perceived visual quality, and then interpreted from intra- and inter-tissue intensity. Experimental results show that both perceptibility of anatomical structures and tissue contrast are improved. More importantly, tissue similarity or dissimilarity can be quantified and cross-validated from pixel intensity analysis. This method benefits image enhancement, tissue classification, malformation detection and morphological evaluation.

This book constitutes the refereed proceedings of the First International Conference on Applied Algorithms, ICAA 2014, held in Kolkata, India, in January 2014. ICAA is a new conference series with a mission to provide a quality forum for researchers working in applied algorithms. Papers presenting original contributions related to the design, analysis, implementation and experimental evaluation of efficient algorithms and data structures for problems with relevant real-world applications were sought, ideally bridging the gap between academia and industry. The 21 revised full papers presented together with 7 short papers were carefully reviewed and selected from 122 submissions.

Security Standardisation Research Springer This book constitutes the proceedings of the First International Conference on Security Standardisation Research, SSR 2014, which was held in London, UK, in December 2014. The 14 full papers presented in this volume were carefully reviewed and selected from 22 submissions. The papers cover a range of topics in the field of security standardisation research, including cryptographic evaluation, standards development, analysis with formal methods, potential future areas of standardisation, and improving existing standards. - **Computer Vision - ACCV 2014 Workshops** Springer The three-volume set, consisting of LNCS 9008, 9009, and 9010, contains carefully reviewed and selected papers presented at 15 workshops held in conjunction with the 12th Asian Conference on Computer Vision, ACCV 2014, in Singapore, in November 2014. The 153 full papers presented were selected from numerous submissions.

LNCS 9008 contains the papers selected for the Workshop on Human Gait and Action Analysis in the Wild, the Second International Workshop on Big Data in 3D Computer Vision, the Workshop on Deep Learning on Visual Data, the Workshop on Scene Understanding for Autonomous Systems and the Workshop on Robust Local Descriptors for Computer Vision. LNCS 9009 contains the papers selected for the Workshop on Emerging Topics on Image Restoration and Enhancement, the First International Workshop on Robust Reading, the Second Workshop on User-Centred Computer Vision, the International Workshop on Video Segmentation in Computer Vision, the Workshop: My Car Has Eyes: Intelligent Vehicle with Vision Technology, the Third Workshop on E-Heritage and the Workshop on Computer Vision for Affective Computing. LNCS 9010 contains the papers selected for the Workshop on Feature and Similarity for Computer Vision, the Third International Workshop on Intelligent Mobile and Egocentric Vision and the Workshop on Human Identification for Surveillance. **Advances in Swarm Intelligence** Springer This book and its companion volume, LNCS vol. 8794 and 8795 constitute the proceedings of the 5th International Conference on Swarm Intelligence, ICSI 2014, held in Hefei, China in October 2014. The 107 revised full papers presented were carefully reviewed and selected from 198 submissions. The papers are organized in 18 cohesive sections, 3 special sessions and one competitive session covering all major topics of swarm intelligence research and development such as novel swarm-based search methods; novel optimization algorithm; particle swarm optimization; ant colony optimization for travelling salesman problem; artificial bee colony algorithms; artificial immune system; evolutionary algorithms; neural networks and fuzzy methods; hybrid methods; multi-objective optimization; multi-agent systems; evolutionary clustering algorithms; classification methods; GPU-based methods; scheduling and path planning; wireless sensor networks; power system optimization; swarm intelligence in image and video processing; applications of swarm intelligence to management problems; swarm intelligence for real-world application. **Statistical Atlases and Computational Models of the Heart: Imaging and Modelling Challenges** Springer This book constitutes the thoroughly refereed post-conference proceedings of the 5th International Workshop on Statistical Atlases and Computational Models of the Heart: Imaging and Modelling Challenges, STACOM 2014, held in conjunction with MICCAI 2014, in Boston, MA, USA, in September 2014. The 30 revised full papers were carefully reviewed and selected from numerous submissions. The papers cover a wide range of topics such as sections on cardiac image processing; atlas construction; statistical modelling of cardiac function across different patient populations; cardiac mapping; cardiac computational physiology; model customization; atlas based functional analysis; ontological schemata for data and results; integrated functional and structural analyses; as well as the pre-clinical and clinical applicability of these methods. **The Actor's Life** Ben Bella Books Jenna Fischer's Hollywood journey began at the age of 22 when she moved to Los Angeles from her hometown of St. Louis. With a theater degree in hand, she was determined, she was confident, she was ready to work hard. So, what could go wrong? Uh, basically everything. The path to being a professional actor was so much more vast and competitive than she'd imagined. It would be eight long years before she landed her iconic role on *The Office*, nearly a decade of frustration, struggle, rejection and doubt. If only she'd had a handbook for the aspiring actor. Or, better yet, someone to show her the way—an established actor who could educate her about the business, manage her expectations, and reassure her in those moments of despair. Jenna wants to be that person for you. With amusing candor and wit, Fischer spells out the nuts and bolts of getting established in the profession, based on her own memorable and hilarious experiences. She tells you how to get the right headshot, what to look for in representation, and the importance of joining forces with other like-minded artists and creating your own work—invaluable advice personally acquired from her many years of struggle. She provides helpful hints on how to be gutsy and take risks, the tricks to good auditioning and callbacks, and how not to fall for certain scams (auditions in a guy's apartment are probably not legit—or at least not for the kind of part you're looking for!). Her inspiring, helpful guidance feels like a trusted friend who's made the journey, and has now returned to walk beside you, pointing out the pitfalls as you blaze your own path towards the life of a professional actor. **Leveraging Applications of Formal Methods, Verification, and Validation** Springer This book constitutes the refereed proceedings of the 6th International Symposium on Leveraging Applications of Formal Methods, Verification, and Validation, ISOla 2014, held in Corfu, Greece, in October 2014, and the 5th International Symposium, ISOla 2012, held in Heraklion, Crete, Greece, in October 2012. The 9 revised full papers presented were carefully reviewed and

selected from 22 submissions. This volume combines the post-conference proceedings of the 2014 Doctoral Symposium and the 2014 Tutorial "Automata Learning in Practice" with the post-conference publication of selected contributions from the Tracks "Process-Oriented Geoinformation Systems and Applications" and "Processes and Data Integration in the Networked Healthcare" of ISO-LA 2012. Applied Algorithms Springer This book constitutes the refereed proceedings of the First International Conference on Applied Algorithms, ICAA 2014, held in Kolkata, India, in January 2014. ICAA is a new conference series with a mission to provide a quality forum for researchers working in applied algorithms. Papers presenting original contributions related to the design, analysis, implementation and experimental evaluation of efficient algorithms and data structures for problems with relevant real-world applications were sought, ideally bridging the gap between academia and industry. The 21 revised full papers presented together with 7 short papers were carefully reviewed and selected from 122 submissions. Rivista J-Reading n. 1-2014 Edizioni Nuova Cultura In QUESTO NUMERO Sirpa Tani, National cases, international collaboration – an example from Finland Joop van der Schree, Looking for an international strategy for geography education Andrea Favretto, Scale factor and image resolution: some cartographic considerations Judit Útő-Visi, Educational landscape and possibilities – Geography education (in the light of a survey) Lorena Rocca, Cristina Minelle, Francesco Bussi, Building geographical knowledge together: the case of a Geography teaching on line course THE LANGUAGE OF IMAGES, Edited by Elisa Bignante and Marco Maggioli MAPPING SOCIETIES, Edited by Edoardo Boria TEACHING FROM THE PAST Parentology Simon and Schuster An award-winning scientist offers his unorthodox approach to child-rearing: "Parentology is brilliant, jaw-droppingly funny, and full of wisdom...bound to change your thinking about parenting and its conventions" (Amy Chua, author of *Battle Hymn of the Tiger Mother*). If you're like many parents, you might ask family and friends for advice when faced with important choices about how to raise your kids. You might turn to parenting books or simply rely on timeworn religious or cultural traditions. But when Dalton Conley, a dual-doctorate scientist and full-blown nerd, needed child-rearing advice, he turned to scientific research to make the big decisions. In *Parentology*, Conley hilariously reports the results of those experiments, from bribing his kids to do math (since studies show conditional cash transfers improved educational and health outcomes for kids) to teaching them impulse control by giving them weird names (because evidence shows kids with unique names learn not to react when their peers tease them) to getting a vasectomy (because fewer kids in a family mean smarter kids). Conley encourages parents to draw on the latest data to rear children, if only because that level of engagement with kids will produce solid and happy ones. Ultimately these experiments are very loving, and the outcomes are redemptive—even when Conley's sassy kids show him the limits of his profession. *Parentology* teaches you everything you need to know about the latest literature on parenting—with lessons that go down easy. You'll be laughing and learning at the same time. *The Immortal Life of Henrietta Lacks* Crown #1 NEW YORK TIMES BESTSELLER • "The story of modern medicine and bioethics—and, indeed, race relations—is refracted beautifully, and movingly."—Entertainment Weekly NOW A MAJOR MOTION PICTURE FROM HBO® STARRING OPRAH WINFREY AND ROSE BYRNE • ONE OF THE "MOST INFLUENTIAL" (CNN), "DEFINING" (LITHUB), AND "BEST" (THE PHILADELPHIA INQUIRER) BOOKS OF THE DECADE • ONE OF ESSENCE'S 50 MOST IMPACTFUL BLACK BOOKS OF THE PAST 50 YEARS • WINNER OF THE CHICAGO TRIBUNE HEARTLAND PRIZE FOR NONFICTION NAMED ONE OF THE BEST BOOKS OF THE YEAR BY The New York Times Book Review • Entertainment Weekly • O: The Oprah Magazine • NPR • Financial Times • New York • Independent (U.K.) • Times (U.K.) • Publishers Weekly • Library Journal • Kirkus Reviews • Booklist • Globe and Mail Her name was Henrietta Lacks, but scientists know her as HeLa. She was a poor Southern tobacco farmer who worked the same land as her slave ancestors, yet her cells—taken without her knowledge—became one of the most important tools in medicine: The first "immortal" human cells grown in culture, which are still alive today, though she has been dead for more than sixty years. HeLa cells were vital for developing the polio vaccine; uncovered secrets of cancer, viruses, and the atom bomb's effects; helped lead to important advances like in vitro fertilization, cloning, and gene mapping; and have been bought and sold by the billions. Yet Henrietta Lacks remains virtually unknown, buried in an unmarked grave. Henrietta's family did not learn of her "immortality" until more than twenty years after her death, when scientists investigating HeLa began using her husband and children in research without informed consent. And though the cells had launched a multimillion-dollar industry that sells human biological materials, her family never saw any of the profits. As Rebecca Skloot so brilliantly shows, the story of the Lacks family—past and present—is inextricably connected to the dark history of experimentation on African Americans, the birth of bioethics, and the legal battles over whether we control the stuff we are made of. Over the decade it took to uncover this story, Rebecca became enmeshed in the lives of the Lacks family—especially Henrietta's daughter Deborah. Deborah was consumed with questions: Had scientists cloned her mother? Had they killed her

to harvest her cells? And if her mother was so important to medicine, why couldn't her children afford health insurance? Intimate in feeling, astonishing in scope, and impossible to put down, *The Immortal Life of Henrietta Lacks* captures the beauty and drama of scientific discovery, as well as its human consequences. Detection and Estimation Research of High-speed Railway Catenary Springer This book describes the wave characteristics of contact lines taking wind into consideration and discusses new methods for detecting catenary geometry, pantograph slide fault, and catenary support system faults. It also introduces wire-irregularity detection methods for catenary estimation, and discusses modern spectrum estimation tools for catenary. It is organized in three parts: the first discusses statistical characteristics of pantograph-catenary data, such as stationarity, periodicity, correlation, high-order statistical properties and wave characteristics of contact lines, which are the basis of pantograph-catenary relationship analysis. The second part includes geometry parameter detection and support-system fault detection in catenary, as well as slide-fault detection in pantographs, and presents some new detection algorithms and plans. The final part addresses catenary estimation, including detection of contact-line wire irregularities and estimation of catenary based on spectrum, and presents detection methods for contact-line irregularity and modern spectrum estimation tools for catenary. Edexcel Linear HarperCollins UK Collins New GCSE Maths Edexcel Linear Teacher's Pack Higher 1 contains everything you need to deliver effective lessons in mathematics with confidence for students working at Grades D to A*. Fully matched to Edexcel's new GCSE Maths Linear specification, these teacher resources offer well-differentiated lesson plans and additional support. The Teacher's Pack allows you to: * Capture the essence of chapters at a glance with chapter overviews * Easily access learning objectives and references to exam board specifications, KS4 Programme of Study, Functional Skills Standards and Personal Learning and Thinking Skills (PLTS) for each chapter * Link maths concepts and help students to access functional and problem-solving scenarios * Raise standards by providing the right level of progression for every student by using the well-differentiated lesson plans * Involve the whole class in engaging activities and discussions using the Starter * Lead students into the main concepts and exercises with the Main Lesson Activity * Consolidate and summarise learning using the Plenary * Quickly access the answers to all questions in the corresponding Student Book and Homework Book * Plan ahead and save time using the ready-made Scheme of Work * Customise your lessons using Lesson Plans in Word format on the CD-Rom *Mathematical Tasks* John Catt Educational 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. *The Human Face of Big Data* Sterling Publishing (NY) The authors invited more than 100 journalists worldwide to use photographs, charts and essays to explore the world of big data and its growing influence on our lives and society. *The Codgers' Kama Sutra* Constable What is the *Kama Sutra*? Is it a spiritual text written by a visionary man of wisdom in India almost two millennia ago? Or is it the world's first mucky book? Well, it's the former - it's a spiritual text written by a visionary man of wisdom in India almost two millennia ago. Though shocking for its time, the *Kama Sutra* has gone on to become the world's most respected guide book on all matters sexual, and is now on top of the wardrobes or under the beds of over sixty percent of the world's teenage boys. It is a common and misconceived belief among the younger generations that sex is something not only void in the minds of our senior citizens, but is most likely physically impossible for those who are at or beyond retirement age. The glorious truth may come as a bit of a shock to the youth of today - it may even conjure up images in their minds best left 'till after lunch! The world's oldies are sexually active. New and exciting research has uncovered startling new evidence that oldies are still 'at it', and still 'do it' whenever they don't have a bad back. Can it be true? Are our most senior citizens getting their wrinkly legs over? If you are an older person, take heart -

there's a lot of dusty action out there. Sex in the twilight years, though similar in mechanics to the couplings of youth, is in fact vastly different. This book exposes the secret world of grey love and covers every aspect of senior congress - from geriatric anatomy and attraction, through to mating rituals, sex positions, post-sex heart condition medication and proper service and care of pace makers. *An Introduction to Verification of Visualization Techniques* Morgan & Claypool Publishers As we increase our reliance on computer-generated information, often using it as part of our decision-making process, we must devise tools to assess the correctness of that information. Consider, for example, software embedded on vehicles, used for simulating aircraft performance, or used in medical imaging. In those cases, software correctness is of paramount importance as there's little room for error. Software verification is one of the tools available to attain such goals. Verification is a well known and widely studied subfield of computer science and computational science and the goal is to help us increase confidence in the software implementation by verifying that the software does what it is supposed to do. The goal of this book is to introduce the reader to software verification in the context of visualization. In the same way we became more dependent on commercial software, we have also increased our reliance on visualization software. The reason is simple: visualization is the lens through which users can understand complex data, and as such it must be verified. The explosion in our ability to amass data requires tools not only to store and analyze data, but also to visualize it. This book is comprised of six chapters. After an introduction to the goals of the book, we present a brief description of both worlds of visualization (Chapter 2) and verification (Chapter 3). We then proceed to illustrate the main steps of the verification pipeline for visualization algorithms. We focus on two classic volume visualization techniques, namely, Isosurface Extraction (Chapter 4) and Direct Volume Rendering (Chapter 5). We explain how to verify implementations of those techniques and report the latest results in the field of verification of visualization techniques. The last chapter concludes the book and highlights new research topics for the future. *The White Lions of Timbavati* Perfect ICT Every Lesson Crown House Publishing Technology is at the heart of learning for all of us and every teacher needs to be using social media, mobile technologies and transformational digital learning opportunities as an integral part of their range of strategies for helping students make the maximum progress. In this book in the 'Perfect' series, Mark Anderson, the ICT Evangelist, takes the technology-related elements of all the recent subject reports from Ofsted and using them offers clear and practical strategies that are proven to be successful in classrooms and offers up ideas for how they can be turned into a daily reality for all teachers. *Linear-fitting-based Similarity Coefficient Map for Tissue Dissimilarity Analysis in -w Magnetic Resonance Imaging* *Project Supported in Part by the National High Technology Research and Development Program of China (Grant Nos. 2015AA043203 and 2012AA02A604), the National Natural Science Foundation of China (Grant Nos. 81171402, 61471349, and 81501463), the Innovative Research Team Program of Guangdong Province, China (Grant No. 2011S013), the Science and Technological Program for Higher Education, Science and Research, and Health Care Institutions of Guangdong Province, China (Grant No. 2011108101001), the Natural Science Foundation of Guangdong Province, China (Grant No. 2014A030310360), the Fundamental Research Program of Shenzhen City, China (Grant No. JCYJ20140417113430639), and Beijing Center for Mathematics and Information Interdisciplinary Sciences, China Abstract: Similarity coefficient mapping (SCM) aims to improve the morphological evaluation of weighted magnetic resonance imaging. However, how to interpret the generated SCM map is still pending. Moreover, is it probable to extract tissue dissimilarity messages based on the theory behind SCM? The primary purpose of this paper is to address these two questions. First, the theory of SCM was interpreted from the perspective of linear fitting. Then, a term was embedded for tissue dissimilarity information. Finally, our method was validated with sixteen human brain image series from multi-echo. Generated maps were investigated from signal-to-noise ratio (SNR) and perceived visual quality, and then interpreted from intra- and inter-tissue intensity. Experimental results show that both perceptibility of anatomical structures and tissue contrast are improved. More importantly, tissue similarity or dissimilarity can be quantified and cross-validated from pixel intensity analysis. This method benefits image enhancement, tissue classification, malformation detection and morphological evaluation. *Intelligent Systems in Technical and Medical Diagnostics* Springer Science & Business Media For many years technical and medical diagnostics has been the area of intensive scientific research. It covers well-established topics as well as emerging developments in control engineering, artificial intelligence, applied mathematics, pattern recognition and statistics. At the same time, a growing number of applications of different fault diagnosis methods, especially in electrical, mechanical, chemical and medical engineering, is being observed. This monograph contains a collection of 44 carefully selected papers contributed by experts in technical and medical diagnostics, and constitutes a comprehensive study of the field. The aim of the book is to show the bridge between technical and medical diagnostics based on artificial intelligence methods and techniques. It is divided into four

parts: I. Soft Computing in Technical Diagnostics, II. Medical Diagnostics and Biometrics, III. Robotics and Computer Vision, IV. Various Problems of Technical Diagnostics. The monograph will be of interest to scientists as well as academics dealing with the problems of designing technical and medical diagnosis systems. Its target readers are also junior researchers and students of computer science, artificial intelligence, control or robotics. **MathsBeat: Year 1 Teacher's Handbook** MathsBeat: Year 1 Teacher's Handbook provides essential support for teaching for mastery, including integrated professional development and real-life examples of children's work to help assess for depth of understanding. **Scorch** by Tim Ross The soft crash of waves that blissfully block out all other noise, the smell of two-stroke and lawn clippings, the first sip of cold beer, the laboured whir of the ceiling fan, the sound of a bag of ice hitting the pavement, that feeling of salt on skin and even the smell of prawns on bin night. Comedian Tim Ross uses the Australian Summer as a back drop for a new collection of nostalgic short stories. **A Compendium of Mathematical Methods** John Catt Educational Brings together over one hundred different approaches from classrooms worldwide, exposing mathematicians to methods that they've never before encountered. **3D Computer Graphics** Cambridge University Press Table of contents **Self-Narrative and Pedagogy** Springer In this book, teachers from a variety of backgrounds reflect upon their journeys into and within teaching to discuss the impact of their diverse experiences on the ways in which they teach. The authors adopt a variety of autoethnographic approaches in telling stories of transition and profound transformation as they each discuss how certain events in their lives have shaped their professional identities and methods of teaching. In telling their stories they also tell stories of the culture and process of education. This offers the opportunity to consider the narratives as examples of how individuals and groups respond in different ways to institutional and national policies on education. In these chapters, the authors offer illumination from a number of perspectives, of how practitioners of education make meaning of their lives and work in our changing times. By capturing these personal stories, this book will inform and support readers who are studying to become teachers and those already working in education by developing their understanding and empathy with the role. Autoethnography can develop self-knowledge and understanding in the reader and writer of such texts, offering unique insights and individual ways of being that will benefit students and staff in a range of educational settings. This book values the telling and sharing of stories as a strategy for enabling teachers to learn from one another and help them to feel more supported. The book will be useful for teachers and teacher educators, students of education, and all researchers interested in autoethnography and self-narrative. **The Boy Who Grew Dragons** Simon and Schuster "The Boy Who Grew Dragons' is good-hearted fantasy fun." -New York Times Book Review "This gently funny title is a must-purchase for public libraries, and a great recommendation for readers of all ages" -School Library Journal, STARRED REVIEW "Never has so much toilet humor been so charming." -Kirkus Reviews "Readers will be eager for more." -Booklist This hilarious middle-grade novel with illustrations throughout sees Tomas discover that he can grow dragons in his own garden! When Tomas discovers a strange old tree at the bottom of his grandfather's garden, he doesn't think much of it. But he takes the funny fruit from the tree back into the house and gets the shock of his life when a tiny dragon hatches! The tree is a dragon fruit tree, and Tomas now has his very own dragon, Flicker! While Tomas finds out that life with Flicker is fun, he also finds that it is very...unpredictable. Yes, dragons are wonderful, but they also set fire to your toothbrush and leave your underwear hanging from the TV antenna. Tomas has to learn how to look after Flicker---and quickly! And then something extraordinary happens: More dragon fruits appear on the tree! Now it's official, Tomas is growing dragons. **Necessary Conditions of Learning** Routledge Necessary Conditions of Learning presents a research approach (phenomenography) and a theory (the variation theory of learning) introduced and developed by Ference Marton and taken up by his wide and varied following around the world—together with their practical applications in educational contexts. Reflecting Marton's whole lifetime's work, the unique and significant contribution of this book is to offer an evidence-based answer to the questions "How do we make novel meanings our own?" and "How do we learn to see things in more powerful ways?" The presentation makes use of hundreds of empirical studies carried out in Europe and Asia which build on the theory. The line of reasoning and the way in which the examples are put together is consistent with the theory—it is both presented and applied. The main argument is that in order to learn we have to discern, and to discern the intended ideas we must be presented with carefully structured variation, against a background of invariance. We then go through processes of contrast, generalization, and fusion in order to make sense. These insights form a practical framework for those who design teaching and teaching materials. **Necessary Conditions of Learning** is a major original work for which scholars of pedagogical theory have been waiting a long time. **Meaningful Differences in the Everyday Experience of Young American Children** More widely cited than ever before, this book presents findings on the disparities in daily interactions between parents and children of different socioeconomic back-

grounds and the effect of these disparities on children's vocabulary and later intellect. **Basic Operator Theory** Marching to Different Drummers ASCDE explores the importance of style in education by examining the individual differences that are labeled as learning styles, teaching styles, leadership styles, and psychological types. **Evolution and Disease** Vision Models for High Dynamic Range and Wide Colour Gamut Imaging Academic Press To enhance the overall viewing experience (for cinema, TV, games, AR/VR) the media industry is continuously striving to improve image quality. Currently the emphasis is on High Dynamic Range (HDR) and Wide Colour Gamut (WCG) technologies, which yield images with greater contrast and more vivid colours. The uptake of these technologies, however, has been hampered by the significant challenge of understanding the science behind visual perception. **Vision Models for High Dynamic Range and Wide Colour Gamut Imaging** provides university researchers and graduate students in computer science, computer engineering, vision science, as well as industry R&D engineers, an insight into the science and methods for HDR and WCG. It presents the underlying principles and latest practical methods in a detailed and accessible way, highlighting how the use of vision models is a key element of all state-of-the-art methods for these emerging technologies. Presents the underlying vision science principles and models that are essential to the emerging technologies of HDR and WCG Explores state-of-the-art techniques for tone and gamut mapping Discusses open challenges and future directions of HDR and WCG research **A Guide for Implementing a Patent Strategy** John Wiley & Sons This book is aimed at the innovators who drive the advances from which we all benefit. This includes scientists, engineers, technicians, managers, and entrepreneurs who want to financially benefit from their innovations. The book describes how to build patent portfolios that will properly protect your technology and be of financial benefit. The tools that innovators need to have to generate patents are presented in detail. **Moving Object Detection Using Background Subtraction Algorithms** GRIN Verlag Master's Thesis from the year 2014 in the subject Computer Science - Theory, grade: 9.2, , language: English, abstract: In this thesis we present an operational computer video system for moving object detection and tracking . The system captures monocular frames of background as well as moving object and to detect tracking and identifies those moving objects. An approach to statistically modeling of moving object developed using Background Subtraction Algorithms. There are many methods proposed for Background Subtraction algorithm in past years. Background subtraction algorithm is widely used for real time moving object detection in video surveillance system. In this paper we have studied and implemented different types of methods used for segmentation in Background subtraction algorithm with static camera. This paper gives good understanding about procedure to obtain foreground using existing common methods of Background Subtraction, their complexity, utility and also provide basics which will useful to improve performance in the future . First, we have explained the basic steps and procedure used in vision based moving object detection. Then, we have debriefed the common methods of background subtraction like Simple method, statistical methods like Mean and Median filter, Frame Differencing and W4 System method , Running Gaussian Average and Gaussian Mixture Model and last is Eigenbackground Model. After that we have implemented all the above techniques on MATLAB software and show some experimental results for the same and compare them in terms of speed and complexity criteria. Also we have improved one of the GMM algorithm by combining it with optical flow method, which is also good method to detect moving elements. **PISA Students, Computers and Learning** Making the Connection OECD Publishing Are there computers in the classroom? Does it matter? Students, Computers and Learning: Making the Connection examines how students' access to and use of information and communication technology (ICT) devices has evolved in recent years. **Neural Networks for Pattern Recognition** Oxford University Press Statistical pattern recognition; Probability density estimation; Single-layer networks; The multi-layer perceptron; Radial basis functions; Error functions; Parameter optimization algorithms; Pre-processing and feature extraction; Learning and generalization; Bayesian techniques; Appendix; References; Index. **Advances in Independent Component Analysis and Learning Machines** Academic Press In honour of Professor Erkki Oja, one of the pioneers of Independent Component Analysis (ICA), this book reviews key advances in the theory and application of ICA, as well as its influence on signal processing, pattern recognition, machine learning, and data mining. Examples of topics which have developed from the advances of ICA, which are covered in the book are: A unifying probabilistic model for PCA and ICA Optimization methods for matrix decompositions Insights into the FastICA algorithm Unsupervised deep learning Machine vision and image retrieval A review of developments in the theory and applications of independent component analysis, and its influence in important areas such as statistical signal processing, pattern recognition and deep learning. A diverse set of application fields, ranging from machine vision to science policy data. Contributions from leading researchers in the field. **Big An Introduction to Numerical Methods in C++** Oxford University Press on Demand This text on numerical computing, presented through the medium of the C++ language, is designed for students of science

and engineering who are seriously studying numerical methods for the first time. It should also be of interest to computing scientists who wish to see how C++ can be used in earnest for numerical computation. The mathematical prerequisites are those which an undergraduate student of science or engineering might be expected to possess after the earlier years of study: elementary calculus, linear algebra, and differential equations. In computing, a good knowledge, such as Basic, Fortran, or Pascal, is assumed, while a working knowledge of C would be an advantage. However, no prior knowledge of C++ is assumed. The language is developed in step with its numerical applications. Features of the language not used here are ignored. What remains, however, is a powerful framework for numerical computations and more than enough for an introductory text. **RamonsteBook Partnership** Hidden in the mountains of East Tennessee, an eleven-year old goes about the business of being a boy during the summer of 1970. Within a balance of terror and innocence, he bears silent witness to ghosts of the dead and the cruelties of a teenage killer while local justice plays out in a community carved from legacies of coal mining and religion.

For many years technical and medical diagnostics has been the area of intensive scientific research. It covers well-established topics as well as emerging developments in control engineering, artificial intelligence, applied mathematics, pattern recognition and statistics. At the same time, a growing number of applications of different fault diagnosis methods, especially in electrical, mechanical, chemical and medical engineering, is being observed. This monograph contains a collection of 44 carefully selected papers contributed by experts in technical and medical diagnostics, and constitutes a comprehensive study of the field. The aim of the book is to show the bridge between technical and medical diagnostics based on artificial intelligence methods and techniques. It is divided into four parts: I. Soft Computing in Technical Diagnostics, II. Medical Diagnostics and Biometrics, III. Robotics and Computer Vision, IV. Various Problems of Technical Diagnostics. The monograph will be of interest to scientists as well as academics dealing with the problems of designing technical and medical diagnosis systems. Its target readers are also junior researchers and students of computer science, artificial intelligence, control or robotics.

"The Boy Who Grew Dragons' is good-hearted fantasy fun." -New York Times Book Review "This gently funny title is a must-purchase for public libraries, and a great recommendation for readers of all ages" -School Library Journal, STARRED REVIEW "Never has so much toilet humor been so charming." -Kirkus Reviews "Readers will be eager for more." -Booklist This hilarious middle-grade novel with illustrations throughout sees Tomas discover that he can grow dragons in his own garden! When Tomas discovers a strange old tree at the bottom of his grandfather's garden, he doesn't think much of it. But he takes the funny fruit from the tree back into the house and gets the shock of his life when a tiny dragon hatches! The tree is a dragon fruit tree, and Tomas now has his very own dragon, Flicker! While Tomas finds out that life with Flicker is fun, he also finds that it is very...unpredictable. Yes, dragons are wonderful, but they also set fire to your toothbrush and leave your underwear hanging from the TV antenna. Tomas has to learn how to look after Flicker---and quickly! And then something extraordinary happens: More dragon fruits appear on the tree! Now it's official, Tomas is growing dragons.

IN QUESTO NUMERO Sirpa Tani, National cases, international collaboration - an example from Finland Joop van der Schee, Looking for an international strategy for geography education Andrea Favretto, Scale factor and image resolution: some cartographic considerations Judit Útő-Visi, Educational landscape and possibilities - Geography education (in the light of a survey) Lorena Rocca, Cristina Minelle, Francesco Bussi, Building geographical knowledge together: the case of a Geography teaching on line course **THE LANGUAGE OF IMAGES**, Edited by Elisa Bignante and Marco Maggioni **MAPPING SOCIETIES**, Edited by Edoardo Boria **TEACHING FROM THE PAST**

This book constitutes the thoroughly refereed post-conference proceedings of the 5th International Workshop on Statistical Atlases and Computational Models of the Heart: Imaging and Modelling Challenges, STACOM 2014, held in conjunction with MICCAI 2014, in Boston, MA, USA, in September 2014. The 30 revised full papers were carefully reviewed and selected from numerous submissions. The papers cover a wide range of topics such as sections on cardiac image processing; atlas construction; statistical modelling of cardiac function across different patient populations; cardiac mapping; cardiac computational physiology; model customization; atlas based functional analysis; ontological schemata for data and results; integrated functional and structural analyses; as well as the pre-clinical and clinical applicability of these methods.

MathsBeat: Year 1 Teacher's Handbook provides essential support for teaching for mastery, including integrated professional development and real-life examples of children's work to help assess for depth of understanding.

Are there computers in the classroom? Does it matter? Students, Computers and Learning: Making the Connection examines how students' access to and use of information and communication

technology (ICT) devices has evolved in recent years.

Brings together over one hundred different approaches from classrooms worldwide, exposing mathematicians to methods that they've never before encountered.

This text on numerical computing, presented through the medium of the C++ language, is designed for students of science and engineering who are seriously studying numerical methods for the first time. It should also be of interest to computing scientists who wish to see how C++ can be used in earnest for numerical computation. The mathematical prerequisites are those which an undergraduate student of science or engineering might be expected to possess after the earlier years of study: elementary calculus, linear algebra, and differential equations. In computing, a good knowledge, such as Basic, Fortran, or Pascal, is assumed, while a working knowledge of C would be an advantage. However, no prior knowledge of C++ is assumed. The language is developed in step with its numerical applications. Features of the language not used here are ignored. What remains, however, is a powerful framework for numerical computations and more than enough for an introductory text.

Necessary Conditions of Learning presents a research approach (phenomenography) and a theory (the variation theory of learning) introduced and developed by Ference Marton and taken up by his wide and varied following around the world—together with their practical applications in educational contexts. Reflecting Marton's whole lifetime's work, the unique and significant contribution of this book is to offer an evidence-based answer to the questions "How do we make novel meanings our own?" and "How do we learn to see things in more powerful ways?" The presentation makes use of hundreds of empirical studies carried out in Europe and Asia which build on the theory. The line of reasoning and the way in which the examples are put together is consistent with the theory—it is both presented and applied. The main argument is that in order to learn we have to discern, and to discern the intended ideas we must be presented with carefully structured variation, against a background of invariance. We then go through processes of contrast, generalization, and fusion in order to make sense. These insights form a practical framework for those who design teaching and teaching materials. Necessary Conditions of Learning is a major original work for which scholars of pedagogical theory have been waiting a long time.

In honour of Professor Erkki Oja, one of the pioneers of Independent Component Analysis (ICA), this book reviews key advances in the theory and application of ICA, as well as its influence on signal processing, pattern recognition, machine learning, and data mining. Examples of topics which have developed from the advances of ICA, which are covered in the book are: A unifying probabilistic model for PCA and ICA Optimization methods for matrix decompositions Insights into the FastICA algorithm Unsupervised deep learning Machine vision and image retrieval A review of developments in the theory and applications of independent component analysis, and its influence in important areas such as statistical signal processing, pattern recognition and deep learning. A diverse set of application fields, ranging from machine vision to science policy data. Contributions from leading researchers in the field.

Collins New GCSE Maths Edexcel Linear Teacher's Pack Higher 1 contains everything you need to deliver effective lessons in mathematics with confidence for students working at Grades D to A*. Fully matched to Edexcel's new GCSE Maths Linear specification, these teacher resources offer well-differentiated lesson plans and additional support. The Teacher's Pack allows you to: * Capture the essence of chapters at a glance with chapter overviews * Easily access learning objectives and references to exam board specifications, KS4 Programme of Study, Functional Skills Standards and Personal Learning and Thinking Skills (PLTS) for each chapter * Link maths concepts and help students to access functional and problem-solving scenarios * Raise standards by providing the right level of progression for every student by using the well-differentiated lesson plans * Involve the whole class in engaging activities and discussions using the Starter * Lead students into the main concepts and exercises with the Main Lesson Activity * Consolidate and summarise learning using the Plenary * Quickly access the answers to all questions in the corresponding Student Book and Homework Book * Plan ahead and save time using the ready-made Scheme of Work * Customise your lessons using Lesson Plans in Word format on the CD-Rom

The authors invited more than 100 journalists worldwide to use photographs, charts and essays to explore the world of big data and its growing influence on our lives and society.

Statistical pattern recognition; Probability density estimation; Single-layer networks; The multi-layer perceptron; Radial basis functions; Error functions; Parameter optimization algorithms; Pre-processing and feature extraction; Learning and generalization; Bayesian techniques; Appendix; References; Index.

As we increase our reliance on computer-generated information, often using it as part of our decision-making process, we must devise tools to assess the correctness of that information. Consider, for example, software embedded on vehicles, used for simulating aircraft performance, or used in medical imaging. In those cases, software correctness is of paramount importance as there's little

room for error. Software verification is one of the tools available to attain such goals. Verification is a well known and widely studied subfield of computer science and computational science and the goal is to help us increase confidence in the software implementation by verifying that the software does what it is supposed to do. The goal of this book is to introduce the reader to software verification in the context of visualization. In the same way we became more dependent on commercial software, we have also increased our reliance on visualization software. The reason is simple: visualization is the lens through which users can understand complex data, and as such it must be verified. The explosion in our ability to amass data requires tools not only to store and analyze data, but also to visualize it. This book is comprised of six chapters. After an introduction to the goals of the book, we present a brief description of both worlds of visualization (Chapter 2) and verification (Chapter 3). We then proceed to illustrate the main steps of the verification pipeline for visualization algorithms. We focus on two classic volume visualization techniques, namely, Isosurface Extraction (Chapter 4) and Direct Volume Rendering (Chapter 5). We explain how to verify implementations of those techniques and report the latest results in the field of verification of visualization techniques. The last chapter concludes the book and highlights new research topics for the future.

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.

What is the Kama Sutra? Is it a spiritual text written by a visionary man of wisdom in India almost two millennia ago? Or is it the world's first mucky book? Well, it's the former - it's a spiritual text written by a visionary man of wisdom in India almost two millennia ago. Though shocking for its time, the Kama Sutra has gone on to become the world's most respected guide book on all matters sexual, and is now on top of the wardrobes or under the beds of over sixty percent of the world's teenage boys. It is a common and misconceived belief among the younger generations that sex is something not only void in the minds of our senior citizens, but is most likely physically impossible for those who are at or beyond retirement age. The glorious truth may come as a bit of a shock to the youth of today - it may even conjure up images in their minds best left 'till after lunch! The world's oldies are sexually active. New and exciting research has uncovered startling new evidence that oldies are still 'at it', and still 'do it' whenever they don't have a bad back. Can it be true? Are our most senior citizens getting their wrinkly legs over? If you are an older person, take heart - there's a lot of dusty action out there. Sex in the twilight years, though similar in mechanics to the couplings of youth, is in fact vastly different. This book exposes the secret world of grey love and covers every aspect of senior congress - from geriatric anatomy and attraction, through to mating rituals, sex positions, post-sex heart condition medication and proper service and care of pace makers.

An award-winning scientist offers his unorthodox approach to child-rearing: "Parentology is brilliant, jaw-droppingly funny, and full of wisdom...bound to change your thinking about parenting and its conventions" (Amy Chua, author of Battle Hymn of the Tiger Mother). If you're like many parents, you might ask family and friends for advice when faced with important choices about how to raise your kids. You might turn to parenting books or simply rely on timeworn religious or cultural traditions. But when Dalton Conley, a dual-doctorate scientist and full-blown nerd, needed child-rearing advice, he turned to scientific research to make the big decisions. In Parentology, Conley hilariously reports the results of those experiments, from bribing his kids to do math (since studies show conditional cash transfers improved educational and health outcomes for kids) to teaching them impulse control by giving them weird names (because evidence shows kids with unique names learn not to react when their peers tease them) to getting a vasectomy (because fewer kids in a family mean smarter kids). Conley encourages parents to draw on the latest data to rear children, if only because that level of engagement with kids will pro-

duce solid and happy ones. Ultimately these experiments are very loving, and the outcomes are redemptive—even when Conley's sassy kids show him the limits of his profession. Parentology teaches you everything you need to know about the latest literature on parenting—with lessons that go down easy. You'll be laughing and learning at the same time.

This book describes the wave characteristics of contact lines taking wind into consideration and discusses new methods for detecting catenary geometry, pantograph slide fault, and catenary support system faults. It also introduces wire-irregularity detection methods for catenary estimation, and discusses modern spectrum estimation tools for catenary. It is organized in three parts: the first discusses statistical characteristics of pantograph-catenary data, such as stationarity, periodicity, correlation, high-order statistical properties and wave characteristics of contact lines, which are the basis of pantograph-catenary relationship analysis. The second part includes geometry parameter detection and support-system fault detection in catenary, as well as slide-fault detection in pantographs, and presents some new detection algorithms and plans. The final part addresses catenary estimation, including detection of contact-line wire irregularities and estimation of catenary based on spectrum, and presents detection methods for contact-line irregularity and modern spectrum estimation tools for catenary.

This book constitutes the proceedings of the First International Conference on Security Standardisation Research, SSR 2014, which was held in London, UK, in December 2014. The 14 full papers presented in this volume were carefully reviewed and selected from 22 submissions. The papers cover a range of topics in the field of security standardisation research, including cryptographic evaluation, standards development, analysis with formal methods, potential future areas of standardisation, and improving existing standards.

In this book, teachers from a variety of backgrounds reflect upon their journeys into and within teaching to discuss the impact of their diverse experiences on the ways in which they teach. The authors adopt a variety of autoethnographic approaches in telling stories of transition and profound transformation as they each discuss how certain events in their lives have shaped their professional identities and methods of teaching. In telling their stories they also tell stories of the culture and process of education. This offers the opportunity to consider the narratives as examples of how individuals and groups respond in different ways to institutional and national policies on education. In these chapters, the authors offer illumination from a number of perspectives, of how practitioners of education make meaning of their lives and work in our changing times. By capturing these personal stories, this book will inform and support readers who are studying to become teachers and those already working in education by developing their understanding and empathy with the role. Autoethnography can develop self-knowledge and understanding in the reader and writer of such texts, offering unique insights and individual ways of being that will benefit students and staff in a range of educational settings. This book values the telling and sharing of stories as a strategy for enabling teachers to learn from one another and help them to feel more supported. The book will be useful for teachers and teacher educators, students of education, and all researchers interested in autoethnography and self-narrative.

More widely cited than ever before, this book presents findings on the disparities in daily interactions between parents and children of different socioeconomic backgrounds and the effect of these disparities on children's vocabulary and later intellect.

This book is aimed at the innovators who drive the advances from which we all benefit. This includes scientists, engineers, technicians, managers, and entrepreneurs who want to financially benefit from their innovations. The book describes how to build patent portfolios that will properly protect your technology and be of financial benefit. The tools that innovators need to have to generate patents are presented in detail.

Jenna Fischer's Hollywood journey began at the age of 22 when she moved to Los Angeles from her hometown of St. Louis. With a theater degree in hand, she was determined, she was confident, she was ready to work hard. So, what could go wrong? Uh, basically everything. The path to being a professional actor was so much more vast and competitive than she'd imagined. It would be eight long years before she landed her iconic role on The Office, nearly a decade of frustration, struggle, rejection and doubt. If only she'd had a handbook for the aspiring actor. Or, better yet, someone to show her the way—an established actor who could educate her about the business, manage her expectations, and reassure her in those moments of despair. Jenna wants to be that person for you. With amusing candor and wit, Fischer spells out the nuts and bolts of getting established in the profession, based on her own memorable and hilarious experiences. She tells you how to get the right headshot, what to look for in representation, and the importance of joining forces with other like-minded artists and creating your own work—invaluable advice personally acquired from her many years of struggle. She provides helpful hints on how to be gutsy and take risks, the tricks to good auditioning and callbacks, and how not to fall for certain scams (auditions in a guy's apartment are probably not legit—or at least not for the kind of part you're looking for!). Her inspiring, helpful guidance feels like

a trusted friend who's made the journey, and has now returned to walk beside you, pointing out the pitfalls as you blaze your own path towards the life of a professional actor.

Security Standardisation ResearchSpringer

Master's Thesis from the year 2014 in the subject Computer Science - Theory, grade: 9.2, , language: English, abstract: In this thesis we present an operational computer video system for moving object detection and tracking . The system captures monocular frames of background as well as moving object and to detect tracking and identifies those moving objects. An approach to statistically modeling of moving object developed using Background Subtraction Algorithms. There are many methods proposed for Background Subtraction algorithm in past years. Background subtraction algorithm is widely used for real time moving object detection in video surveillance system. In this paper we have studied and implemented different types of methods used for segmentation in Background subtraction algorithm with static camera. This paper gives good understanding about procedure to ob-

tain foreground using existing common methods of Background Subtraction, their complexity, utility and also provide basics which will be useful to improve performance in the future . First, we have explained the basic steps and procedure used in vision based moving object detection. Then, we have debriefed the common methods of background subtraction like Simple method, statistical methods like Mean and Median filter, Frame Differencing and W4 System method , Running Gaussian Average and Gaussian Mixture Model and last is Eigenbackground Model. After that we have implemented all the above techniques on MATLAB software and show some experimental results for the same and compare them in terms of speed and complexity criteria. Also we have improved one of the GMM algorithm by combining it with optical flow method, which is also a good method to detect moving elements. The three-volume set, consisting of LNCS 9008, 9009, and 9010, contains carefully reviewed and selected papers presented at 15 workshops held in conjunction with the 12th Asian Conference on Computer Vision, ACCV 2014, in Singapore, in November 2014.

The 153 full papers presented were selected from numerous submissions. LNCS 9008 contains the papers selected for the Workshop on Human Gait and Action Analysis in the Wild, the Second International Workshop on Big Data in 3D Computer Vision, the Workshop on Deep Learning on Visual Data, the Workshop on Scene Understanding for Autonomous Systems and the Workshop on Robust Local Descriptors for Computer Vision. LNCS 9009 contains the papers selected for the Workshop on Emerging Topics on Image Restoration and Enhancement, the First International Workshop on Robust Reading, the Second Workshop on User-Centered Computer Vision, the International Workshop on Video Segmentation in Computer Vision, the Workshop: My Car Has Eyes: Intelligent Vehicle with Vision Technology, the Third Workshop on E-Heritage and the Workshop on Computer Vision for Affective Computing. LNCS 9010 contains the papers selected for the Workshop on Feature and Similarity for Computer Vision, the Third International Workshop on Intelligent Mobile and Egocentric Vision and the Workshop on Human Identification for Surveillance.