

200 technology square cambridge ma 02139

200 Technology Square, Cambridge, MA 02139: A Hub of Innovation and its Complexities

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Summary: This article examines 200 Technology Square, Cambridge, MA 02139, a significant address within the vibrant Kendall Square innovation ecosystem. It analyzes the address's role as a focal point for technological advancement, highlighting the immense opportunities presented by its location and the challenges posed by rapid growth, including issues related to affordable housing, infrastructure limitations, and the need for sustainable development practices. The article concludes with a forward-looking perspective, suggesting strategies for mitigating challenges and maximizing the potential of 200 Technology Square and its surrounding area.

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Introduction:

200 Technology Square, Cambridge, MA 02139, is more than just an address; it represents the heart of a rapidly evolving technological landscape. Situated in the dynamic Kendall Square neighborhood, this location sits at the epicenter of innovation, attracting a multitude of tech giants, startups, and research institutions. This article undertakes a comprehensive analysis of 200 Technology Square, exploring the significant opportunities it presents while acknowledging and addressing the considerable challenges accompanying its remarkable growth.

Opportunities at 200 Technology Square, Cambridge MA 02139:

The location of 200 Technology Square presents unparalleled opportunities:

Proximity to MIT and other research institutions: Its close proximity to the

Massachusetts Institute of Technology (MIT) and other leading research institutions fosters a unique environment for collaboration and knowledge exchange. This proximity fuels innovation and provides a constant stream of talented individuals and groundbreaking research. The address at 200 Technology Square benefits directly from this synergistic relationship.

Access to a highly skilled workforce: Kendall Square boasts one of the densest concentrations of highly skilled professionals in the world. 200 Technology Square enjoys direct access to this talent pool, making it an attractive location for companies seeking to recruit and retain top-tier employees.

Strong investment and entrepreneurial ecosystem: The area around 200 Technology Square attracts significant venture capital investment, creating a fertile ground for startups and fostering a culture of entrepreneurship. This vibrant ecosystem supports innovation and economic growth.

World-class infrastructure: While facing challenges, the region surrounding 200 Technology Square possesses world-class infrastructure, including excellent transportation links, advanced communication networks, and high-quality amenities. This contributes significantly to the attractiveness of the area.

Potential for mixed-use development: The area offers potential for incorporating residential, commercial, and recreational spaces, fostering a more vibrant and sustainable community around 200 Technology Square. This mixed-use approach can improve the quality of life for residents and workers alike.

Challenges at 200 Technology Square, Cambridge MA 02139:

Despite the numerous opportunities, 200 Technology Square faces significant challenges:

Affordable housing crisis: The rapid growth of the tech industry has driven up housing costs, leading to an acute affordable housing crisis in Cambridge. This disproportionately impacts low- and moderate-income residents, creating social and economic inequalities. The proximity of 200 Technology Square to this problem makes it a key area to address.

Strain on infrastructure: The influx of people and businesses puts a strain on existing infrastructure, including transportation networks, utilities, and public services. Addressing these infrastructural limitations is crucial to ensure the sustainability of the area's growth.

Environmental concerns: Rapid development raises environmental concerns, including increased traffic congestion, greenhouse gas emissions, and the potential impact on green spaces. Sustainable development practices are essential to mitigate these environmental consequences.

Traffic congestion: The area around 200 Technology Square experiences significant traffic congestion, hindering commuting and impacting the overall quality of life. Efficient transportation solutions are crucial to address this issue.

Gentrification: The influx of wealthier residents and businesses can lead to gentrification, displacing long-term residents and altering the character of the neighborhood. Strategies to mitigate gentrification and preserve the

diverse character of the community are essential.

Strategies for Mitigating Challenges and Maximizing Opportunities:

Addressing the challenges at 200 Technology Square requires a multi-pronged approach:

Investing in affordable housing: Implementing policies and programs to increase the supply of affordable housing is critical. This includes incentives for developers to build affordable units, expanding rent control measures, and investing in public housing.

Improving transportation infrastructure: Investing in public transportation, improving pedestrian and cycling infrastructure, and implementing smart traffic management systems can help alleviate traffic congestion.

Promoting sustainable development: Adopting sustainable building practices, encouraging green transportation options, and investing in renewable energy sources can reduce the environmental footprint of development.

Supporting local businesses: Policies that support local businesses and prevent the displacement of existing businesses can help preserve the unique character of the neighborhood.

Community engagement: Actively engaging with the community in the planning and development process is essential to ensure that the benefits of growth are shared equitably.

Conclusion:

200 Technology Square, Cambridge, MA 02139, occupies a unique position within the global innovation landscape. Its location and the opportunities it presents are undeniably significant. However, realizing its full potential requires addressing the challenges related to affordable housing, infrastructure, and environmental sustainability. Through proactive planning, strategic investment, and meaningful community engagement, the area can continue to thrive as a hub of innovation while ensuring equitable growth and a high quality of life for all its residents.

FAQs:

1. What is the significance of 200 Technology Square's location? Its location in Kendall Square, close to MIT and other research institutions, provides access to a highly skilled workforce and a vibrant entrepreneurial ecosystem.

1. What are the main challenges facing 200 Technology Square? The main challenges include the affordable housing crisis, strain on infrastructure, environmental concerns, traffic congestion, and potential gentrification.

1. How can affordable housing issues be addressed? Solutions include incentivizing developers to build affordable units, expanding rent control, and investing in public housing.
1. What transportation improvements are needed? Improvements include investment in public transportation, better pedestrian and cycling infrastructure, and smart traffic management systems.
1. How can sustainable development practices be implemented? Sustainable practices include using green building materials, encouraging green transportation, and investing in renewable energy.
1. What is the impact of gentrification in the area? Gentrification displaces long-term residents and alters the character of the neighborhood, impacting the diversity of the community.
1. How can the community be involved in development decisions? Community engagement through public forums, surveys, and collaborative planning processes is crucial.
1. What role does MIT play in the development of the area? MIT's presence is a major driver of innovation and attracts businesses and talent, but it also contributes to the pressures on housing and infrastructure.
1. What is the future outlook for 200 Technology Square? The future outlook is positive, but requires proactive planning and community engagement to ensure equitable growth and sustainability.

Related Articles:

1. The Kendall Square Ecosystem: A Deep Dive into Innovation: This article explores the broader Kendall Square ecosystem, its history, and its role as a global innovation hub.
1. Affordable Housing in Cambridge: Challenges and Solutions: This article focuses specifically on the affordable housing crisis in Cambridge and explores potential solutions.

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1. The Impact of Technology on Urban Development: The Kendall Square Example: This article explores the broader impact of the technology industry on urban development using Kendall Square as a case study.
1. Gentrification and Displacement in Cambridge: A Sociological Perspective: This article examines the social and economic consequences of gentrification in Cambridge.
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1. Community Engagement and Urban Planning in Cambridge: Best Practices and Lessons Learned: This article examines successful community engagement strategies used in Cambridge's urban planning process.

200 technology square cambridge ma 02139: Automata, Languages and Programming Peter Widmayer, Francisco Triguero, Rafael Morales, Matthew Hennessy, Stephan Eidenbenz, Ricardo Conejo, 2003-08-03 This book constitutes the refereed proceedings of the 29th International Colloquium on Automata, Languages and Programming, ICALP 2002, held in Malaga, Spain, in July 2002. The 83 revised full papers presented together with 7 invited papers were carefully reviewed and selected from a total of 269 submissions. All current aspects of theoretical computer science are addressed and major new results are presented.

200 technology square cambridge ma 02139: Peer-to-Peer Systems Peter Druschel, Frans

Kaashoek, Antony Rowstron, 2002-10-09 This book constitutes the thoroughly refereed post-proceedings of the First International Workshop on Peer-to-Peer Systems, IPTPS 2002, held in Cambridge, MA, USA, in March 2002. The 30 revised full papers presented together with an introductory survey article were carefully selected and improved during two rounds of reviewing and revision. The book is a unique state-of-the-art survey on the emerging field of peer-to-peer computing. The papers are organized in topical sections on structure overlay routing protocols, deployed peer-to-peer systems, anonymous overlays, applications, evaluation, searching and indexing, and data management.

200 technology square cambridge ma 02139: *Bispecific Antibodies* Roland E. Kontermann, 2011-07-21 The concept of using bispecific antibodies for cancer therapy by retargeting immune effector cells was developed several years ago. Initial clinical studies were rather disappointing mainly due to low efficacy, severe side effects and the immunogenicity of the bispecific antibodies. The progress in antibody engineering finally led to the generation of new classes of bispecific antibodies lacking these obstacles. In addition, new applications were established, such as pre-targeting strategies in radioimmunotherapy and dual targeting approaches in order to improve binding, selectivity and efficacy. In this book, the different ways of generating bispecific antibodies are described, with emphasis on recombinant formats. The various applications of bispecific antibodies, e.g. in cellular cancer immunotherapy, radioimmunotherapy and pretargeting strategies are covered, and emerging applications such as dual targeting strategies, which involve the simultaneous inhibition of two targets, are addressed.

200 technology square cambridge ma 02139: *Who Needs Emotions?* Jean-Marc Fellous, Michael A. Arbib, 2005-03-24 The idea that some day robots may have emotions has captured the imagination of many and has been dramatized by robots and androids in such famous movies as 2001 Space Odyssey's HAL or Star Trek's Data. By contrast, the editors of this book have assembled a panel of experts in neuroscience and artificial intelligence who have dared to tackle the issue of whether robots can have emotions from a purely scientific point of view. The study of the brain now usefully informs study of the social, communicative, adaptive, regulatory, and experimental aspects of emotion and offers support for the idea that we exploit our own psychological responses in order to feel others' emotions. The contributors show the many ways in which the brain can be analyzed to shed light on emotions. Fear, reward, and punishment provide structuring concepts for a number of investigations. Neurochemistry reveals the ways in which different neuromodulators such as serotonin, dopamine, and opioids can affect the emotional valence of the brain. And studies of different regions such as the amygdala and orbitofrontal cortex provide a view of the brain as a network of interacting subsystems. Related studies in artificial intelligence and robotics are discussed and new multi-level architectures are proposed that make it possible for emotions to be implemented. It is now an accepted task in robotics to build robots that perceive human expressions of emotion and can express simulated emotions to ease interactions with humans. Looking towards future innovations, some scientists posit roles for emotion with our fellow humans. All of these issues are covered in this timely and stimulating book which is written for researchers and graduated students in neuroscience, cognitive science, psychology, robotics, and artificial intelligence.

200 technology square cambridge ma 02139: *Discrete Geometry* Andras Bezdek, 2003-02-04 Celebrating the work of Professor W. Kuperberg, this reference explores packing and covering theory, tilings, combinatorial and computational geometry, and convexity, featuring an extensive collection of problems compiled at the Discrete Geometry Special Session of the American Mathematical Society in New Orleans, Louisiana. Discrete Geometry analyzes packings and coverings with congruent convex bodies, arrangements on the sphere, line transversals, Euclidean and spherical tilings, geometric graphs, polygons and polyhedra, and fixing systems for convex figures. This text also offers research and contributions from more than 50 esteemed international authorities, making it a valuable addition to any mathematical library.

200 technology square cambridge ma 02139: *Algorithms and Computation* Toshihide Ibaraki, Naoki Katoh, Hirotaka Ono, 2003-12-03 This book constitutes the refereed proceedings of

the 14th International Symposium on Algorithms and Computation, ISAAC 2003, held in Kyoto, Japan, in December 2003. The 73 revised full papers presented were carefully reviewed and selected from 207 submissions. The papers are organized in topical sections on computational geometry, graph and combinatorial algorithms, computational complexity, quantum computing, combinatorial optimization, scheduling, computational biology, distributed and parallel algorithms, data structures, combinatorial and network optimization, computational complexity and cryptography, game theory and randomized algorithms, and algebraic and arithmetic computation.

200 technology square cambridge ma 02139: Recent Progress in Glycotherapy Qun Zhou, 2016-12-06 Carbohydrates (monosaccharides, oligosaccharides and polysaccharides) exist naturally in free form and as components of other macromolecules (nucleic acids, proteins and lipids). Glycotherapy refers to this use of carbohydrates or glycoengineered macromolecules in fighting life-threatening diseases. Although glycotherapy is a relatively new and limited field of pharmacology, significant progress has been made in recent years in academia and the pharmaceutical industry facilitated by advances in enzymology and recombinant DNA technologies. Consequently, carbohydrate containing biologics are now used in therapeutic regimens. This volume provides a summary of the progress made in developing therapeutic solutions using glycoengineering techniques. Topics covered in this volume include the development of vaccines and antibodies against tumor-associated carbohydrate antigens for cancer treatment, the use of glycan for viral inhibition, glycoPEGylation, hyaluronic acid conjugation, and protein modification and conjugation for increasing therapeutic index using recombinant and chemoenzymatic approaches. The volume is essential reading for biochemists, pharmacologists and R&D professionals interested in glycotherapy.

200 technology square cambridge ma 02139: Algorithms - ESA 2003 Giuseppe Di Battista, Uri Zwick, 2003-10-02 This book constitutes the refereed proceedings of the 11th Annual European Symposium on Algorithms, ESA 2003, held in Budapest, Hungary, in September 2003. The 66 revised full papers presented were carefully reviewed and selected from 165 submissions. The scope of the papers spans the entire range of algorithmics from design and mathematical analysis issues to real-world applications, engineering, and experimental analysis of algorithms.

200 technology square cambridge ma 02139: Algorithms - ESA 2002 Rolf Möhring, Rajeev Raman, 2003-08-02 This volume contains the 74 contributed papers and abstracts of 4 of the 5 invited talks presented at the 10th Annual European Symposium on Algorithms (ESA 2002), held at the University of Rome "La Sapienza", Rome, Italy, 17-21 September, 2002. For the first time, ESA had two tracks, with separate program committees, which dealt respectively with: - the design and mathematical analysis of algorithms (the "Design and Analysis" track); - real-world applications, engineering and experimental analysis of algorithms (the "Engineering and Applications" track). Previous ESAs were held in Bad Honnef, Germany (1993); Utrecht, The Netherlands (1994); Corfu, Greece (1995); Barcelona, Spain (1996); Graz, Austria (1997); Venice, Italy (1998); Prague, Czech Republic (1999); Saarbrücken, Germany (2000), and Aarhus, Denmark (2001). The predecessor to the Engineering and Applications track of ESA was the Annual Workshop on Algorithm Engineering (WAE). Previous WAEs were held in Venice, Italy (1997), Saarbrücken, Germany (1998), London, UK (1999), Saarbrücken, Germany (2000), and Aarhus, Denmark (2001). The proceedings of the previous ESAs were published as Springer LNCS volumes 726, 855, 979, 1284, 1461, 1643, 1879, and 2161. The proceedings of WAEs from 1999 onwards were published as Springer LNCS volumes 1668, 1982, and 2161.

200 technology square cambridge ma 02139: Multimodal Interface For Human-machine Communication Pong Chi Yuen, Yuan Yan Tang, Patrick S P Wang, 2002-04-10 With the advance of speech, image and video technology, human-computer interaction (HCI) will reach a new phase. In recent years, HCI has been extended to human-machine communication (HMC) and the perceptual user interface (PUI). The final goal in HMC is that the communication between humans and machines is similar to human-to-human communication. Moreover, the machine can support human-to-human communication (e.g. an interface for the disabled). For this reason, various aspects

of human communication are to be considered in HMC. The HMC interface, called a multimodal interface, includes different types of input methods, such as natural language, gestures, face and handwriting characters. The nine papers in this book have been selected from the 92 high-quality papers constituting the proceedings of the 2nd International Conference on Multimodal Interface (ICMI '99), which was held in Hong Kong in 1999. The papers cover a wide spectrum of the multimodal interface.

200 technology square cambridge ma 02139: Relational and Kleene-Algebraic Methods in Computer Science R. Berghammer, Bernhard Möller, Georg Struth, 2004-06-01 This book constitutes the thoroughly refereed joint postproceedings of the 7th International Seminar on Relational Methods in Computer Science and the 2nd International Workshop on Applications of Kleene Algebra held in Bad Malente, Germany in May 2003. The 21 revised full papers presented were carefully selected during two rounds of reviewing and improvement. The papers address foundational and methodological aspects of the calculi of relations and Kleene algebra as well as applications of such methods in various areas of computer science and information processing.

200 technology square cambridge ma 02139: Power Aware Computing Robert Graybill, Rami Melhem, 2013-04-17 With the advent of portable and autonomous computing systems, power consumption has emerged as a focal point in many research projects, commercial systems and DoD platforms. One current research initiative, which drew much attention to this area, is the Power Aware Computing and Communications (PAC/C) program sponsored by DARPA. Many of the chapters in this book include results from work that have been supported by the PACIC program. The performance of computer systems has been tremendously improving while the size and weight of such systems has been constantly shrinking. The capacities of batteries relative to their sizes and weights has been also improving but at a rate which is much slower than the rate of improvement in computer performance and the rate of shrinking in computer sizes. The relation between the power consumption of a computer system and its performance and size is a complex one which is very much dependent on the specific system and the technology used to build that system. We do not need a complex argument, however, to be convinced that energy and power, which is the rate of energy consumption, are becoming critical components in computer systems in general, and portable and autonomous systems, in particular. Most of the early research on power consumption in computer systems addressed the issue of minimizing power in a given platform, which usually translates into minimizing energy consumption, and thus, longer battery life.

200 technology square cambridge ma 02139: Advances in Neural Information Processing Systems 16 Sebastian Thrun, Lawrence K. Saul, Bernhard Schölkopf, 2004 Papers presented at the 2003 Neural Information Processing Conference by leading physicists, neuroscientists, mathematicians, statisticians, and computer scientists. The annual Neural Information Processing (NIPS) conference is the flagship meeting on neural computation. It draws a diverse group of attendees -- physicists, neuroscientists, mathematicians, statisticians, and computer scientists. The presentations are interdisciplinary, with contributions in algorithms, learning theory, cognitive science, neuroscience, brain imaging, vision, speech and signal processing, reinforcement learning and control, emerging technologies, and applications. Only thirty percent of the papers submitted are accepted for presentation at NIPS, so the quality is exceptionally high. This volume contains all the papers presented at the 2003 conference.

200 technology square cambridge ma 02139: Advances in Artificial Intelligence Ahmed Y. Tawfik, Scott D. Goodwin, 2004-04-16 This book constitutes the refereed proceedings of the 17th Conference of the Canadian Society for Computational Studies of Intelligence, Canadian AI 2004, held in London, Ontario, Canada in May 2004. The 29 revised full papers and 22 revised short papers were carefully reviewed and selected from 105 submissions. These papers are presented together with the extended abstracts of 14 contributions to the graduate students' track. The full papers are organized in topical sections on agents, natural language processing, learning, constraint satisfaction and search, knowledge representation and reasoning, uncertainty, and neural networks.

200 technology square cambridge ma 02139: LATIN 2004: Theoretical Informatics Martin

Farach-Colton, 2004-03-19 This volume contains the proceedings of the Latin American Theoretical Informatics (LATIN) conference that was held in Buenos Aires, Argentina, April 5-8, 2004. The LATIN series of symposia was launched in 1992 to foster interactions between the Latin American community and computer scientists around the world. This was the sixth event in the series, following São Paulo, Brazil (1992), Valparaíso, Chile (1995), Campinas, Brazil (1998), Punta del Este, Uruguay (2000), and Cancun, Mexico (2002). The proceedings of these conferences were also published by Springer-Verlag in the Lecture Notes in Computer Science series: Volumes 583, 911, 1380, 1776, and 2286, respectively. Also, as before, we published a selection of the papers in a special issue of a prestigious journal. We received 178 submissions. Each paper was assigned to four program committee members, and 59 papers were selected. This was 80% more than the previous record for the number of submissions. We feel lucky to have been able to build on the solid foundation provided by the increasingly successful previous LATINs. And we are very grateful for the tireless work of Pablo Martín López, the Local Arrangements Chair. Finally, we thank Springer-Verlag for publishing these proceedings in its LNCS series.

200 technology square cambridge ma 02139: Applied Algebra, Algebraic Algorithms and Error-Correcting Codes Serdar Boztas, Igor E. Shparlinski, 2003-06-30 The AAEC Symposia Series was started in 1983 by Alain Poli (Toulouse), who, together with R. Desq, D. Lazard, and P. Camion, organized the first conference. Originally the acronym AAEC meant "Applied Algebra and Error-Correcting Codes". Over the years its meaning has shifted to "Applied Algebra, Algebraic Algorithms, and Error-Correcting Codes", reflecting the growing importance of complexity in both decoding algorithms and computational algebra. AAEC aims to encourage cross-fertilization between algebraic methods and their applications in computing and communications. The algebraic orientation is towards finite fields, complexity, polynomials, and graphs. The applications orientation is towards both theoretical and practical error-correction coding, and, since AAEC 13 (Hawaii, 1999), towards cryptography. AAEC was the first symposium with papers connecting Gröbner bases with E-C codes. The balance between theoretical and practical is intended to shift regularly; at AAEC-14 the focus was on the theoretical side. The main subjects covered were: - Codes: iterative decoding, decoding methods, block codes, code construction. - Codes and algebra: algebraic curves, Gröbner bases, and AG codes. - Algebra: rings and fields, polynomials. - Codes and combinatorics: graphs and matrices, designs, arithmetic. - Cryptography. - Computational algebra: algebraic algorithms. - Sequences for communications.

200 technology square cambridge ma 02139: Computing and Combinatorics Tandy Warnow, Binhai Zhu, 2003-08-06 The refereed proceedings of the 9th Annual International Computing and Combinatorics Conference, COCOON 2003, held in Big Sky, MT, USA in July 2003. The 52 revised full papers presented together with 3 invited contributions were carefully reviewed and selected from 114 submissions. The papers are organized in topical sections on computational geometry, computational biology, computability and complexity theory, graph theory and graph algorithms, automata and Petri net theory, distributed computing, Web-based computing, scheduling, graph drawing, and fixed-parameter complexity theory.

200 technology square cambridge ma 02139: Natural Language Processing and Information Systems Birger Andersson, Maria Bergholtz, P. Johannesson, 2003-07-01 The workshop on Applications of Natural Language to Information Systems (NLDB) has since 1995 provided a forum for academic and industrial researchers and practitioners to discuss the application of natural language to both the development and use of software applications. The use of natural language in relation to software has contributed to improving the development of software from the viewpoints of both the developers and the users. Developers benefit from improvements in conceptual modeling, software validation, natural language program specifications, and many other areas. Users benefit from increased usability of applications through natural language query interfaces, semantic webs, text summarizations, etc. The integration of natural language and information systems has been a search objective for a long time now. Today, the goal of good integration seems not so far-fetched. This is due mainly to the rapid progress of

research in natural language and to the development of new and powerful technologies. The integration of natural language and information systems has become a convergent point towards which many researchers from several research areas are focussing.

200 technology square cambridge ma 02139: *The Semantic Web - ISWC 2003* Katia Sycara, John Mylopoulos, 2003-10-02 These proceedings contain the papers accepted for presentation at the Second International Semantic Web Conference (ISWC 2003) held on Sanibel Island, Florida, U. S. A. , October 20-23, 2003. Following the success of ISWC 2002 that was held in Sardinia in June 2002, ISWC 2003 enjoyed a greatly increased interest in the conference themes. The number of submitted papers more than doubled compared with ISWC 2002 to 283. Of those, 262 were submitted to the research track and 21 to the industrial track. With rare exceptions, each submission was evaluated by three program committee members whose reviews were coordinated by members of the senior program committee. This year 49 papers in the research track and 9 papers in the industrial track were accepted. The high quality of ISWC 2003 was the result of the joint effort of many people. First of all we would like to thank the authors for their high-quality submissions and the members of the program committee for their reviewing and review coordination efforts. We would like to extend special thanks to Christoph Bussler for chairing the industrial track, to Mike Dean for his help with the conference management software, the web site, and conference publicity, and to Massimo Paolucci for helping with the organization of the proceedings and arranging sponsorships.

200 technology square cambridge ma 02139: *Mathematical Foundations of Speech and Language Processing* Mark Johnson, Sanjeev P. Khudanpur, Mari Ostendorf, Roni Rosenfeld, 2012-12-06 Speech and language technologies continue to grow in importance as they are used to create natural and efficient interfaces between people and machines, and to automatically transcribe, extract, analyze, and route information from high-volume streams of spoken and written information. The workshops on Mathematical Foundations of Speech Processing and Natural Language Modeling were held in the Fall of 2000 at the University of Minnesota's NSF-sponsored Institute for Mathematics and Its Applications, as part of a Mathematics in Multimedia year-long program. Each workshop brought together researchers in the respective technologies on the one hand, and mathematicians and statisticians on the other hand, for an intensive week of cross-fertilization. There is a long history of benefit from introducing mathematical techniques and ideas to speech and language technologies. Examples include the source-channel paradigm, hidden Markov models, decision trees, exponential models and formal languages theory. It is likely that new mathematical techniques, or novel applications of existing techniques, will once again prove pivotal for moving the field forward. This volume consists of original contributions presented by participants during the two workshops. Topics include language modeling, prosody, acoustic-phonetic modeling, and statistical methodology.

200 technology square cambridge ma 02139: *Design and Application of Strategies/Tactics in Higher Order Logics* Myla Archer, 2003

200 technology square cambridge ma 02139: *New Therapeutic Strategies for Type 2 Diabetes* Rob M Jones, 2012-09-30 The diabetes mellitus epidemic is unfolding across the globe with the World Health Organization (WHO) reporting a worldwide prevalence of 177 million patients with diabetes. Type 2 diabetes accounts for approximately ninety percent of all diabetes cases. Long-term complications of type 2 diabetes include atherosclerosis, heart disease, stroke, end-stage renal disease, retinopathy leading to blindness, nerve damage, sexual dysfunction, frequent infections, and difficult-to-treat foot ulcers, sometimes resulting in lower limb amputation. Diabetics are twice as likely to develop cardiovascular disease or have a stroke, two to six times more likely to have transient ischemic attacks, and fifteen to forty times more likely to require lower-limb amputation compared with the general population. In 2002, the total economic cost of diabetes was estimated to be \$132 billion accounting for one in every ten health care dollars spent in the United States. As a direct consequence of this economic impact and in light of the fact that current approved therapies fail to provide adequate therapeutic advantage in preventing hyperglycemia, industry has been

heavily focused on addressing new fundamental cellular mechanisms that will potentially address this unmet need. *New Therapeutic Strategies for Type 2 Diabetes* provides the reader with the most comprehensive survey to-date of the most innovative small molecule research strategies targeted at treating the burgeoning type 2 diabetes epidemic. Each chapter is written by a recognised thought-leader in this field. The book will be an invaluable reference for researchers and medicinal chemists that concisely explains the biological mechanisms underpinning each cutting-edge therapeutic strategy along with key medicinal chemistry rationales and up-to-date clinical findings.

200 technology square cambridge ma 02139: Biometric Authentication Massimo Tistarelli, Josef Bigun, Anil K. Jain, 2003-08-06 Biometric authentication refers to identifying an individual based on his or her distinguishing physiological and/or behavioral characteristics. It associates an individual with a previously determined identity based on that individual's appearance or behavior. Because many physiological or behavioral characteristics (biometric indicators) are distinctive to each person, biometric identifiers are inherently more reliable and more capable than knowledge-based (e.g., password) and token-based (e.g., a key) techniques in differentiating between an authorized person and a fraudulent impostor. For this reason, more and more organizations are looking to automated identity authentication systems to improve customer satisfaction, security, and operating efficiency as well as to save critical resources. Biometric authentication is a challenging pattern recognition problem; it involves more than just template matching. The intrinsic nature of biometric data must be carefully studied, analyzed, and its properties taken into account in developing suitable representation and matching algorithms. The intrinsic variability of data with time and environmental conditions, the social acceptability and invasiveness of acquisition devices, and the facility with which the data can be counterfeited must be considered in the choice of a biometric indicator for a given application. In order to deploy a biometric authentication system, one must consider its reliability, accuracy, applicability, and efficiency. Eventually, it may be necessary to combine several biometric indicators (multimodal-biometrics) to cope with the drawbacks of the individual biometric indicators.

200 technology square cambridge ma 02139: Proceedings of the Fifth Workshop on Algorithm Engineering and Experiments Richard E. Ladner, 2003-01-01 The ALENEX workshop provides a forum for the presentation of original research in the implementation and experimental evaluation of algorithms and data structures. This volume collects extended versions of the 12 papers that were selected for presentation.

200 technology square cambridge ma 02139: Adapting Proofs-as-Programs Iman Poernomo, John N. Crossley, Martin Wirsing, 2005-06-21 This monograph details several important advances in the direction of a practical proofs-as-programs paradigm, which constitutes a set of approaches to developing programs from proofs in constructive logic with applications to industrial-scale, complex software engineering problems. One of the book's central themes is a general, abstract framework for developing new systems of programs synthesis by adapting proofs-as-programs to new contexts.

200 technology square cambridge ma 02139: Graph Drawing Guiseppe Liotta, 2004-03-04 The 11th International Symposium on Graph Drawing (GD 2003) was held on September 21-24, 2003, at the Università degli Studi di Perugia, Perugia, Italy. GD 2003 attracted 93 participants from academic and industrial institutions in 17 countries. In response to the call for papers, the program committee received 88 re-larsubmissionsdescribingoriginalresearchand/or systemdemonstrations. Each submission was reviewed by at least 4 program committee members and comments were returned to the authors. Following extensive e-mail discussions, the program committee accepted 34 long papers (12 pages each in the proceedings) and 11 short papers (6 pages each in the proceedings). Also, 6 posters (2 pages each in the proceedings) were displayed in the conference poster gallery. In addition to the 88 submissions, the program committee also received a submission of special type, one that was not competing with the others for a time slot in the conference program and that collects selected open problems in graph drawing. The aim of this paper, which was refereed with particular care and UNCHANGED two rounds of revisions, is to stimulate future research in the graph drawing community.

The paper presents 42 challenging open problems in different areas of graph drawing and contains more than 120 references. Although the length of the paper makes it closer to a journal version than to a conference extended abstract, we decided to include it in the conference proceedings so that it could easily reach in a short time the vast majority of the graph drawing community.

200 technology square cambridge ma 02139: TH17 Cells in Health and Disease Shuiping Jiang, 2011-06-20 "About 25 years ago, Mosmann & Coffman introduced the TH1 / TH2 paradigm of T helper cell differentiation which helped explain many aspects of adaptive immunity from eliminating intracellular versus extracellular pathogens to induction of different types of tissue inflammation. However, TH1 / TH2 paradigm could not adequately explain development of certain inflammatory responses which provided impetus for the discovery of a new subset of T cells called TH17 cells. After the discovery of differentiation and transcription factors for TH17 cells, it was clear that TH17 cells represent an independent subset of T cells with specific functions in eliminating certain extracellular pathogens, presumably not adequately handled by TH1 or TH2 cells. The major role of TH17 cells has been described in inducing auto-immune tissue inflammation. The discovery of TH17 cells has expanded the TH1 / TH2 paradigm, and the integration of TH17 cells with TH1 and TH2 effector T cells is beginning to explain the underlying mechanisms of tissue inflammation in a number of infections and auto-immune disease settings." - From Chapter One by Vijay K. Kuchroo, Harvard University, USA "The recently identified Interleukin 17 (IL-17) cytokine family contributes to immunity to infectious diseases and chronic inflammatory diseases. Further studies on the regulation and function of this important cytokine family may provide better understanding on the roles of the IL-17 family in immune-mediated diseases; such knowledge may lead to the development of immunotherapeutic strategies for treatment of several inflammatory diseases." - From Chapter Two by Chen Dong, University of Texas and MD Anderson Cancer Center, USA

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