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The Essence of Analgesia and Analgesics

This book constitutes the thoroughly refereed post-conference proceedings of the Third International Joint Conference on Biomedical Engineering Systems and Technologies, BIOSTEC 2010, held in Valencia, Spain, in January 2010. The 30 revised full papers presented together with 1 invited lecture were carefully reviewed and selected from a total of 410 submissions in two rounds of reviewing and improvement. The papers cover a wide range of topics and are organized in four general topical sections on healthinf, biodevices, biosignals, and bioinformatics.

Nanowires

This book presents fundamental requirements, electrical specification, and parameter tradeoffs of wearable EEG acquisition circuits, especially those compatible with dry electrodes for user-friendly recordings. The authors introduce active electrode, the most promising solution for dry electrodes-based EEG measurement. This architectural concept has been combined with various, innovative circuit design techniques to illustrate structured IC design methodologies for high performance EEG recording. This book also gives examples on the design, implementation and evaluation of three generations of active electrode ICs.

MicroProcess 91

Ready to transform your body and mind into the healthiest, happiest you? You're going to need enthusiasm, an open mind, and a good deal of grit. In It Takes Grit,

fitness expert and mindset coach Rebecca Louise shares a practical no-BS guide to take your workouts, health, and motivation to the next level—along with a 30-day challenge to kick-start your results. Through her ultrapopular YouTube channel and social media, Rebecca Louise has helped millions of people improve their mindset and achieve their wellness goals. Rebecca knows what it's like to feel lost, unable to find the right career, live broke, go through a divorce, and struggle with a negative relationship with food. It wasn't until she changed her mindset and started to master high-performance habits that she truly found her way to a career she loved and a healthy lifestyle. Now, in *It Takes Grit*, Rebecca shares her tried-and-true tools to lock onto your purpose, uncover your inner grit, and get in the right mindset to go after your goals. She shares: Her 10-step guide to getting results in all areas of your life An action plan to get started, no matter where you are right now Tips to create a meal plan and training routine you can stick to forever How to get and stay motivated no matter what life throws at you Interactive tasks after each chapter to master your daily habits Rebecca also shares her 30-day targeted daily workout program (with bonus online workout videos), to make sure you're never overworking your body, recipes for every meal, and daily tasks that will help you get to the next level. *It Takes Grit* will give you the tools needed to take control of your health and happiness.

Basic Methods in Molecular Biology

This book is open access under a CC BY 4.0 license. It relates to the III Annual Conference hosted by The Ministry of Education and Science of the Russian Federation in December 2016. This event has summarized, analyzed and discussed the interim results, academic outputs and scientific achievements of the Russian Federal Targeted Programme "Research and Development in Priority Areas of Development of the Russian Scientific and Technological Complex for 2014–2020." It contains 75 selected papers from 6 areas considered priority by the Federal Targeted Programme: computer science, ecology & environment sciences; energy and energy efficiency; lifesciences; nanoscience & nanotechnology and transport & communications. The chapters report the results of the 3-years research projects supported by the Programme and finalized in 2016.

Nanoelectronic Materials

Coffee Flavor Chemistry

Wearable Electronics Sensors

This book constitutes the refereed proceedings of the 13th International Conference on Compiler Construction, CC 2004, held in Barcelona, Spain, in March/April 2004. The 19 revised full papers presented together with the abstract of an invited talk were carefully reviewed and selected from 58 submissions. The papers are organized in topical sections on program analysis, parsing, loop analysis, optimization, code generation and backend optimizations, and compiler construction.

Low Power Active Electrode ICs for Wearable EEG Acquisition

The Sixth International Conference on Miniaturized Chemical and Biochemical Analysis Systems, known as /JTAS2002, will be fully dedicated to the latest scientific and technological developments in the field of miniaturized devices and systems for realizing not only chemical and biochemical analysis but also synthesis. The first /JTAS meeting was held in Enschede in 1994 with approximately 160 participants, bringing together the scientists with background in analytical and biochemistry with those with Micro Electro Mechanical Systems (MEMS) in one workshop. We are grateful to Piet Bergveld and Albert van den Berg of MESA Research Institute of the University of Twente for their great efforts to arrange this exciting first meeting. The policy of the meeting was succeeded by late Prof. Dr. Michael Widmer in the second meeting, /JTAS'96 held in Basel with 275 participants. The first two meetings were held as informal workshops. From the third workshop, /JTAS'98 (420 participants) held in Banff, the workshop had become a worldwide conference. Participants continued to increase in /JTAS2000 (about 500 participants) held in Enschede and /JTAS2001 (about 700 participants) held in Monterey. The number of submitted papers also dramatically increased in this period from 130 in 1998, 230 in 2000 to nearly 400 in 2001. From 2001, /JTAS became an annual symposium. The steering committee meeting held in Monterey, confirmed the policy of former /JTAS that quality rather than quantity would be the key-point and that the parallel-session format throughout the 3.

Run to the Finish

The Best Tennis Of Your Life

Advanced ASIC Chip Synthesis: Using Synopsys® Design Compiler® and PrimeTime® describes the advanced concepts and techniques used for ASIC chip synthesis, formal verification and static timing analysis, using the Synopsys suite of tools. In addition, the entire ASIC design flow methodology targeted for VDSM (Very-Deep-Sub-Micron) technologies is covered in detail. The emphasis of this book is on real-time application of Synopsys tools used to combat various problems seen at VDSM geometries. Readers will be exposed to an effective design methodology for handling complex, sub-micron ASIC designs. Significance is placed on HDL coding styles, synthesis and optimization, dynamic simulation, formal verification, DFT scan insertion, links to layout, and static timing analysis. At each step, problems related to each phase of the design flow are identified, with solutions and work-arounds described in detail. In addition, crucial issues related to layout, which includes clock tree synthesis and back-end integration (links to layout) are also discussed at length. Furthermore, the book contains in-depth discussions on the basics of Synopsys technology libraries and HDL coding styles, targeted towards optimal synthesis solutions. Advanced ASIC Chip Synthesis: Using Synopsys® Design Compiler® and PrimeTime® is intended for anyone who is involved in the ASIC design methodology, starting from RTL synthesis to final tape-out. Target audiences for this book are practicing ASIC design engineers and graduate students undertaking advanced courses in ASIC chip design and DFT techniques. From the Foreword: `This book, written by Himanshu Bhatnagar,

provides a comprehensive overview of the ASIC design flow targeted for VDSM technologies using the Synopsis suite of tools. It emphasizes the practical issues faced by the semiconductor design engineer in terms of synthesis and the integration of front-end and back-end tools. Traditional design methodologies are challenged and unique solutions are offered to help define the next generation of ASIC design flows. The author provides numerous practical examples derived from real-world situations that will prove valuable to practicing ASIC design engineers as well as to students of advanced VLSI courses in ASIC design'. Dr Dwight W. Decker, Chairman and CEO, Conexant Systems, Inc., (Formerly, Rockwell Semiconductor Systems), Newport Beach, CA, USA.

Proceedings of the Fifth Workshop on Electronics for LHC Experiments

Basic Methods in Molecular Biology discusses the heart of the most recent revolution in biology—the development of the technology of genetics. The achievements in this field have simply changed what biologists do and, perhaps even more important, the way they think. Moreover, never before have scientists from such a broad range of disciplines rushed into such a small and slightly arcane field to learn and carry off a bit of the technology. This book comprises 21 chapters, opening with three introductory ones that discuss the basics of molecular biology; the tools of the molecular biologist; and general preparations, procedures, and considerations for use of the book. The following chapters then discuss cloning vectors and bacterial cells; preparation of DNA from eukaryotic cells; probing nucleic acids; plasmid DNA preparation; DNA restriction fragment preparation; purification of DNA; and preparation and analysis of RNA from eukaryotic cells. Other chapters cover preparation of DNA from bacteriophage clones; cloning DNA from the eukaryotic genome; subcloning into plasmids; M13 cloning and sequencing; further characterization of cloned DNA; transfection of mammalian cells in culture; protein methods; general methods; and specialized methods. This book will be of interest to practitioners in the fields of biology and molecular genetics.

Compiler Construction

This book is a printed edition of the Special Issue "Integration of 2D Materials for Electronics Applications" that was published in Crystals

Pain Management and the Opioid Epidemic

This volume presents the proceedings of the 7th Asian-Pacific Conference on Medical and Biological Engineering (APCMBE 2008). Themed "Biomedical Engineering – Promoting Sustainable Development of Modern Medicine" the proceedings address a broad spectrum of topics from Bioengineering and Biomedicine, like Biomaterials, Artificial Organs, Tissue Engineering, Nanobiotechnology and Nanomedicine, Biomedical Imaging, Bio MEMS, Biosignal Processing, Digital Medicine, BME Education. It helps medical and biological engineering professionals to interact and exchange their ideas and experiences.

World-class Tennis Technique

This edited book contains invited papers from renowned experts working in the field of Wearable Electronics Sensors. It includes 14 chapters describing recent advancements in the area of Wearable Sensors, Wireless Sensors and Sensor Networks, Protocols, Topologies, Instrumentation architectures, Measurement techniques, Energy harvesting and scavenging, Signal processing, Design and Prototyping. The book will be useful for engineers, scientist and post-graduate students as a reference book for their research on wearable sensors, devices and technologies which is experiencing a period of rapid growth driven by new applications such as heart rate monitors, smart watches, tracking devices and smart glasses.

Consilia Argentoratensia sive illustria iuris responsa

Master your game from the inside out! With more than 800,000 copies sold since it was first published thirty years ago, this phenomenally successful guide has become a touchstone for hundreds of thousands of people. Not just for tennis players, or even just for athletes in general, this handbook works for anybody who wants to improve his or her performance in any activity, from playing music to getting ahead at work. W. Timothy Gallwey, a leading innovator in sports psychology, reveals how to • focus your mind to overcome nervousness, self-doubt, and distractions • find the state of “relaxed concentration” that allows you to play at your best • build skills by smart practice, then put it all together in match play Whether you're a beginner or a pro, Gallwey's engaging voice, clear examples, and illuminating anecdotes will give you the tools you need to succeed. “Introduced to The Inner Game of Tennis as a graduate student years ago, I recognized the obvious benefits of [W. Timothy] Gallwey's teachings. . . . Whether we are preparing for an inter-squad scrimmage or the National Championship Game, these principles lie at the foundation of our program.”—from the Foreword by Pete Carroll

Principles of Colloid and Surface Chemistry

Drug overdose, driven largely by overdose related to the use of opioids, is now the leading cause of unintentional injury death in the United States. The ongoing opioid crisis lies at the intersection of two public health challenges: reducing the burden of suffering from pain and containing the rising toll of the harms that can arise from the use of opioid medications. Chronic pain and opioid use disorder both represent complex human conditions affecting millions of Americans and causing untold disability and loss of function. In the context of the growing opioid problem, the U.S. Food and Drug Administration (FDA) launched an Opioids Action Plan in early 2016. As part of this plan, the FDA asked the National Academies of Sciences, Engineering, and Medicine to convene a committee to update the state of the science on pain research, care, and education and to identify actions the FDA and others can take to respond to the opioid epidemic, with a particular focus on informing FDA's development of a formal method for incorporating individual and societal considerations into its risk-benefit framework for opioid approval and monitoring.

Electrophoresis in Practice

Play with Freedom And Win More! The Best Tennis of Your Life is an inspirational and practical guide that will help players of all levels finally master the mental game. Author Jeff Greenwald draws from his unique background as a world-class player, sports psychology consultant, psychotherapist, and former coach to provide 50 specific tools you can immediately apply in any match situation. This comprehensive guide will show you how to: Embrace nerves and play even better under pressure Maintain confidence to win more consistently Develop a pin-point focus Access an ideal level of intensity Play with a renewed sense of passion and freedom Why wait any longer to play the best tennis of your life? Get the mental edge with this invaluable resource and watch your game soar.

Biomedical Engineering Systems and Technologies

Learn proper execution of the sport's essential skills and tactics. Forehands, backhands, lobs, volleys, overhead smashes, drop shots, serves, and returns of serve are covered to provide a base for solid technique. Instruction in singles and doubles match play tactics will prepare you to compete in whatever game you choose to play. More than 60 gamelike activities and drills will speed your learning and improve your performance. You'll also feel more informed with the advice provided on grips, footwork, equipment, scoring, and etiquette.

The Resolution Revolution: Recent Advances In cryoEM

Top tennis experts contribute to this analysis of optimal techniques for all the essential strokes of the game. 160 photos.

A Beginners' Guide to Scanning Electron Microscopy

cryoEM, a new volume in the Methods in Enzymology series, continues the legacy of this premier serial with quality chapters authored by leaders in the field. This volume covers research methods and new developments in recording images, the creation, evaluation and validation of 3D maps from the images, model building into maps and refinement of the resulting atomic structures, and applications of essentially single particle methods to helical structures and to sub-tomogram averaging. Continues the legacy of this premier serial with quality chapters authored by leaders in the field Covers research methods that determine the structures of biological molecules, a vital step for understanding their function Contains the technical developments underpinning the advances of cryoEM and captures the exciting insights that have resulted

7th Asian-Pacific Conference on Medical and Biological Engineering

Focusing on theory and applications of scheduling, the applications are drawn primarily from production and manufacturing environments, but state principles that are relevant to other settings as well. The broad range of topics includes deterministic and stochastic models.

Proceedings of the Scientific-Practical Conference "Research and Development - 2016"

This book provides a comprehensive summary of nanowire research in the past decade, from the nanowire synthesis, characterization, assembly, to the device applications. In particular, the developments of complex/modulated nanowire structures, the assembly of hierarchical nanowire arrays, and the applications in the fields of nanoelectronics, nanophotonics, quantum devices, nano-enabled energy, and nano-bio interfaces, are focused. Moreover, novel nanowire building blocks for the future/emerging nanoscience and nanotechnology are also discussed. Semiconducting nanowires represent one of the most interesting research directions in nanoscience and nanotechnology, with capabilities of realizing structural and functional complexity through rational design and synthesis. The exquisite control of chemical composition, morphology, structure, doping and assembly, as well as incorporation with other materials, offer a variety of nanoscale building blocks with unique properties.

Advances in Resist Technology and Processing

Physical Activity in Science and Practice

This book was developed with the goal of providing an easily understood text for those users of the scanning electron microscope (SEM) who have little or no background in the area. The SEM is routinely used to study the surface structure and chemistry of a wide range of biological and synthetic materials at the micrometer to nanometer scale. Ease-of-use, typically facile sample preparation, and straightforward image interpretation, combined with high resolution, high depth of field, and the ability to undertake microchemical and crystallographic analysis, has made scanning electron microscopy one of the most powerful and versatile techniques for characterization today. Indeed, the SEM is a vital tool for the characterization of nanostructured materials and the development of nanotechnology. However, its wide use by professionals with diverse technical backgrounds—including life science, materials science, engineering, forensics, mineralogy, etc., and in various sectors of government, industry, and academia—emphasizes the need for an introductory text providing the basics of effective SEM imaging. A Beginners' Guide to Scanning Electron Microscopy explains instrumentation, operation, image interpretation and sample preparation in a wide ranging yet succinct and practical text, treating the essential theory of specimen-beam interaction and image formation in a manner that can be effortlessly comprehended by the novice SEM user. This book provides a concise and accessible introduction to the essentials of SEM includes a large number of illustrations specifically chosen to aid readers' understanding of key concepts highlights recent advances in instrumentation, imaging and sample preparation techniques offers examples drawn from a variety of applications that appeal to professionals from diverse backgrounds.

Cumulated Index Medicus

This book presents synthesis techniques for the preparation of low-dimensional nanomaterials including 0D (quantum dots), 1D (nanowires, nanotubes) and 2D (thin films, few layers), as well as their potential applications in nanoelectronic systems. It focuses on the size effects involved in the transition from bulk materials to nanomaterials; the electronic properties of nanoscale devices; and different classes of nanomaterials from microelectronics to nanoelectronics, to molecular electronics. Furthermore, it demonstrates the structural stability, physical, chemical, magnetic, optical, electrical, thermal, electronic and mechanical properties of the nanomaterials. Subsequent chapters address their characterization, fabrication techniques from lab-scale to mass production, and functionality. In turn, the book considers the environmental impact of nanotechnology and novel applications in the mechanical industries, energy harvesting, clean energy, manufacturing materials, electronics, transistors, health and medical therapy. In closing, it addresses the combination of biological systems with nanoelectronics and highlights examples of nanoelectronic-cell interfaces and other advanced medical applications. The book answers the following questions: • What is different at the nanoscale? • What is new about nanoscience? • What are nanomaterials (NMs)? • What are the fundamental issues in nanomaterials? • Where are nanomaterials found? • What nanomaterials exist in nature? • What is the importance of NMs in our lives? • Why so much interest in nanomaterials? • What is at nanoscale in nanomaterials? • What is graphene? • Are pure low-dimensional systems interesting and worth pursuing? • Are nanotechnology products currently available? • What are sensors? • How can Artificial Intelligence (AI) and nanotechnology work together? • What are the recent advances in nanoelectronic materials? • What are the latest applications of NMs?

Scheduling

Igor Kostin was one of the main witnesses of the Chernobyl catastrophe. On April 26 1986, several hours after the explosion, he flew over the plant; the radioactivity was so high that all his films turned black. Only one single picture survived: it was shown around the world. For 20 years Igor has lived with the 800,000 liquidators' and continued to photograph the plant and the forbidden zone around it. His story became the story of Chernobyl. For the first time he tells this story in words and in pictures.'

Micro Total Analysis Systems 2002

Coffee, one of the most commercially important crops grown, is distributed and traded globally in a multi-million dollar world industry. This exciting new book brings together in one volume the most important recent developments affecting the crop. Contributions from around 20 internationally-respected coffee scientists and technologists from around the world provide a vast wealth of new information in the subject areas in which they are expert. The book commences with three cutting-edge chapters covering non-volatile and volatile compounds that determine the flavour of coffee. Chapters covering technology follow, including comprehensive information on developments in roasting techniques, decaffeination, the science and technology of instant coffee and home / catering beverage preparation. The physiological effects of coffee drinking are considered in a fascinating chapter on coffee and health. Agronomic aspects of coffee

breeding and growing are covered specifically in chapters concentrating on these aspects, particularly focussing on newly-emerging molecular and cellular techniques. Finally, recent activities of some international organisations are reviewed in a lengthy appendix. The editors of *Coffee: Recent Developments* have drawn together a comprehensive and extremely important book that should be on the shelves of all those involved in coffee. The book is a vital tool for food scientists, food technologists and agricultural scientists and the commercially important information included in the book makes it a 'must have reference' to all food companies involved with coffee. All libraries in universities, and research stations where any aspect of the coffee crop is studied or taught should have copies of the book available. R. J. Clarke, also co-editor of the widely-acclaimed six-volume work *Coffee* published between 1985 and 1988, is a consultant based in Chichester U. K. O. G. Vitzthum, formerly Director of Coffee Chemistry Research worldwide at Kraft, Jacobs, Suchard in Bremen, Germany is Honorary Professor at the Technical University of Braunschweig, Germany and Scientific Secretary of the Association Scientifique Internationale du Cafe (ASIC), in Paris France.

The Inner Game of Tennis

Sensing Technology: Current Status and Future Trends III

This fifth edition of the successful, long-selling classic has been completely revised and expanded, omitting some topics on obsolete DNA electrophoresis, but now with a completely new section on electrophoretic micro-methods and on-the-chip electrophoresis. The text is geared towards advanced students and professionals and contains extended background sections, protocols and a trouble-shooting section. It is now also backed by a supplementary website providing all the figures for teaching purposes, as well as a selection of animated figures tested in many workshops to explain the underlying principles of the different electrophoretic methods.

Government Reports Announcements & Index

This book contains a collection of selected works stemming from the 2013 International Conference on Sensing Technology (ICST), which was held in Wellington, New Zealand. The purpose of the book is to distill the highlights of the conference, and therefore track the latest developments in sensing technologies. The book contents are broad, since sensors can be applied in many different areas. Therefore the book gives a broad overview of the latest developments, in addition to discussing the process through which researchers go through in order to develop sensors, or related systems, which will become more widespread in the future. The book is written for academic and industry professionals working in the field of sensing, instrumentation and related fields, and is positioned to give a snapshot of the current state of the art in sensing technology, particularly from the applied perspective.

Integration of 2D Materials for Electronics Applications

Sborník z vědecké konference konané u příležitosti 60. výročí založení Fakulty tělesné výchovy a sportu Univerzity Karlovy v Praze.

Coffee

MICROELECTRONIC INTERCONNECTIONS AND MICROASSEMBLY WORKSHOP 18-21 May 1996, Prague, Czech Republic Conference Organizers: George Harman, NIST (USA) and Pavel Mach (Czech Republic) Summary of the Technical Program Thirty two presentations were given in eight technical sessions at the Workshop. A list of these sessions and their chairpersons is attached below. The Workshop was devoted to the technical aspects of advanced interconnections and microassembly, but also included papers on the education issues required to prepare students to work in these areas. In addition to new technical developments, several papers presented overviews predicting the future directions of these technologies. The basic issue is that electronic systems will continue to be miniaturized and at the same time performance must continue to improve. Various industry roadmaps were discussed as well as new smaller packaging and interconnection concepts. The newest chip packages are often based on the selection of an appropriate interconnection method. An example is the chip-scale package, which has horizontal (x-y) dimensions,;; 20% larger than the actual silicon chip itself. The chip is often flip-chip connected to a micro ball-grid-array, but direct chip attach was described also. Several papers described advances in the manufacture of such packages.

Chernobyl

Microelectronic Interconnections and Assembly

Western Blotting Guru provides researchers in molecular biology with a handy reference for approaching and solving challenging problems associated with immunoblotting setup and optimization. As a laboratory guide, it emphasizes the technical aspects of efficiently employing immunoblotting as a tool in molecular biology laboratories. The book covers the basic science underlying immunoblotting and detailed description of the method parameters, followed by good benchtop practices, tips and tricks for obtaining high-quality data and a detailed troubleshooting guide addressing a variety of problem types. Provides a benchtop reference that every molecular biologist will use to design, optimize, troubleshoot and analyze their immunoblotting experiments Contains unique good practices and tips that are indispensable for the beginner and expert alike Features special cases with applications of immunoblotting optimization Includes detailed appendices with tables, figures and key protocols Provides troubleshooting tips for various types of modifications of standard protocols Organized as a systematic, concentrated resource to save time when addressing an immunoblotting problem

It Takes Grit

The Essence of Analgesia and Analgesics is an invaluable practical resource for clinicians giving pain relief in any clinical setting, describing the pharmacologic

principles and clinical use of all available pain medications. As well as detailed overviews of pain processing and analgesic theory, sections are dedicated to oral and parenteral opioid analgesics, neuraxial opioids, NSAIDs, local anesthetics, anticonvulsant type analgesics, NMDA antagonists, alpha adrenergic analgesics, antidepressant analgesics, muscle relaxants, adjuvant medications, and new and emerging analgesics. The concise format of the chapters allows for quick and easy reading and assimilation of information. Enhanced by summary tables and figures, each chapter provides an overview of a particular drug, covering chemical structure, mode of activity, indications, contraindications, common doses and uses, advantages and disadvantages, and drug related adverse events. Key references are also provided. Edited by leading experts in pain management, this is essential reading for any clinician involved in pain management.

AVMA Guidelines for the Euthanasia of Animals (2013 Edition)

Tennis Fundamentals

Western Blotting Guru

Runner's World

Inspiration and practical tips for runners who prioritize enjoyment over pace and embrace their place as an "average" runner. In her first book, popular runner blogger Amanda Brooks lays out the path to finding greater fulfillment in running for those who consider themselves "middle of the pack runners" -- they're not trying to win Boston (or even qualify for Boston); they just want to get strong and stay injury-free so they can continue to enjoy running. *Run to the Finish* is not your typical running book. While it is filled with useful strategic training advice throughout, at its core, it is about embracing your place in the middle of the pack with humor and learning to love the run you've got without comparing yourself to other runners. Mixing practical advice like understanding the discomfort vs. pain, the mental side of running, and movements to treat the most common injuries with more playful elements such as "Favorite hilarious marathon signs" and "Weird Thoughts We all Have at the Start Line," Brooks is the down-to-earth, inspiring guide for everyone who wants to be happier with their run.

Advanced ASIC Chip Synthesis

This, the first comprehensive review of coffee flavor chemistry is entirely dedicated to flavor components and presents the importance of analytical techniques for the quality control of harvesting, roasting, conditioning and distribution of foods. Provides a reference for coffee specialists and an introduction to flavor chemistry for non-specialists. The author is a research chemist with Firmenich SA, one of the few great flavor and fragrance companies in the world. Contains the most recent references (up to 2001) for the identification of green and roasted coffee aroma volatiles.

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