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Special Topics in Information Technology Dec 31 2022 This open access book presents thirteen outstanding doctoral dissertations in Information Technology from the Department of Electronics, Information and Bioengineering, Politecnico di Milano, Italy. Information Technology has always been highly interdisciplinary, as many aspects have to be considered in IT systems. The doctoral studies program in IT at Politecnico di Milano emphasizes this interdisciplinary nature, which is becoming more and more important in recent technological advances, in collaborative projects, and in the education of young researchers. Accordingly, the focus of advanced research is on pursuing a rigorous approach to specific research topics starting from a broad background in various areas of Information Technology, especially Computer Science and Engineering, Electronics, Systems and Control, and Telecommunications. Each year, more than 50 PhDs graduate from the program.

This book gathers the outcomes of the thirteen best theses defended in 2019-20 and selected for the IT PhD Award. Each of the authors provides a chapter summarizing his/her findings, including an introduction, description of methods, main achievements and future work on the topic. Hence, the book provides a cutting-edge overview of the latest research trends in Information Technology at Politecnico di Milano, presented in an easy-to-read format that will also appeal to non-specialists.

Special Topics in Carcinogenesis Jul 26 2022 With contributions by numerous experts

The Truants Jun 12 2021 One of the New York Times Book Review's Top Ten Best Crime Novels of 2020 One of USA Today's Best Books 2020 "[A] hypnotic debut. . . .[An] uncommonly clever whodunit."--New York Times Book Review Perfect for lovers of Agatha Christie and The Secret History, The Truants is a seductive, unsettling, and beautifully written debut novel of literary suspense--a thrilling exploration of deceit, first love, and the depths to which obsession can drive us. People disappear when they most want to be seen. Jess Walker has come to a concrete campus under the flat gray skies of East Anglia for one reason: to be taught by the mesmerizing and rebellious Dr. Lorna Clay, whose seminars soon transform Jess's thinking on life, love, and Agatha Christie. Swept up in Lorna's thrall,

Jess falls in with a tightly knit group of rule-breakers--Alec, a courageous South African journalist with a nihilistic streak; Georgie, a seductive, pill-popping aristocrat; and Nick, a handsome geologist with layers of his own. But the dynamic between the friends begins to darken, until a tragedy shatters their friendships and love affairs, and reveals a terrible secret. Soon Jess must face the question she fears most: what is the true cost of an extraordinary life? An Entertainment Weekly Best Book of January A USA Today Must-Read Book of Winter An Observer Book of the Year (UK) A Marie Claire Top 5 Christmas Read (UK) A Times Best New Crime Novel (UK) A Guardian Top 10 Golden Age Detective Novel An Irish Times Best Debut of 2019 An Apple Books Pick for January

Selected Topics in Image Science May 31 2020 The continuing growth of computed tomography (CT) and other imaging techniques motivated us to bring together a comprehensive review of the state of the art in diagnostic imaging. Twelve years after the first appearance of x-ray CT, computerized diagnostic imaging has grown so rapidly in sophistication that it is difficult to follow current developments in this diversified field. In this book, we have attempted to cover the basic developments in several areas. The first part includes some of the fundamental aspects of computerized diagnostic imaging such as algorithms

and detectors. Specific applications in emission tomography, digital radiography, ultrasound and nuclear magnetic resonance imaging are dealt with in the secondpart. The contributed papers are by experts currently in the field, whom we feel would certainly enlighten the subject matter and possibly suggest directions for future development. We would like to express our sincere thanks to those who have contributed to this volume. We are sure that their original papers will be beneficial for readers and will also remain as an important reference for researchers in the years to come. We would also like to thank Betty Trent for her expert and patient typing of the entire book. Finally, special thanks are due to Mrs. Ingeborg Mayer of Springer-Verlag for her encouragements, support and patience throughout the preparation of this book.

Selected Topics in DNA Repair Apr 30 2020 This book is intended for students and scientists working in the field of DNA repair, focusing on a number of topics ranging from DNA damaging agents and mechanistic insights to methods in DNA repair and insights into therapeutic strategies. These topics demonstrate how scientific ideas are developed, tested, dialogued, and matured as it is meant to discuss key concepts in DNA repair. The book should serve as a supplementary text in courses and seminars as well as a general reference

for biologists with an interest in DNA repair.

Special Topics in Drug Discovery Aug 27 2022 Drug discovery involves multiple disciplines, technologies, and approaches. This book selects important topics related to drug discovery, including emerging tool (Chapter 1), cutting-edge approaches (Chapters 2, 3, and 4), examples of specific therapeutic area (Chapter 5), quality control in drug development (Chapter 6), and job and career opportunities in the pharmaceutical sector, a topic rarely covered by other books (Chapter 7). This book draws knowledge from experts actively involved in different areas of drug discovery from both industrial and academic settings. We hope that this book will facilitate your efforts in drug discovery.

Special Topics in Calamity Physics May 04 2023 The mesmerizing New York Times bestseller by the author of Night Film Marisha Pessl's dazzling debut sparked raves from critics and heralded the arrival of a vibrant new voice in American fiction. At the center of Special Topics in Calamity Physics is clever, deadpan Blue van Meer, who has a head full of literary, philosophical, scientific, and cinematic knowledge. But she could use some friends. Upon entering the elite St. Gallway School, she finds some—a clique of eccentrics known as the Bluebloods. One drowning and one hanging later, Blue finds herself puzzling out a byzantine murder mystery. Nabokov meets Donna Tartt (then

invites the rest of the Western Canon to the party) in this novel—with visual aids drawn by the author—that has won over readers of all ages.

Houses Feb 06 2021 Blending astrology, psychology, and metaphor, this entertaining and easy-to-read guidebook can help you gain a deeper understanding of the themes associated with each of the twelve astrological houses and the four angles of the horoscope.

Selected Topics in Philosophy Jan 08 2021 Selected Topics in Philosophy is an eclectic mix of various topics in philosophy including the nature of language, epistemology, ethics, the nature of religion and literature, metaphysics, existentialism and transcendentalism. Some particularly interesting issues discussed in the book include George Berkeley and John Locke's theories on the difference between language and reality (most confusion and much conflict in the world seems to be because we use words for things that do not exist) Immanuel Kant's transcendental idealism and in particular his discussion of antinomies (we are not passive tabula rasas on which the external world writes but rather active minds organizing and making sense of a random and incomprehensible world) Jean Paul Sartre's existential admonition that we must accept the world with no telos (which naturally leads us to the truism that if we wish

life to have meaning we must look to ourselves to create it) the question of whether there are certain timeless, objective standards by which we can judge human actions (if we cannot, and ethics is subjective, how do we distinguish between good and evil?) what are the limits to our knowledge (are there certain immutable truths which we can discover which are built like a pyramid with a broad foundation and each layer resting on the one below, or is all knowledge simply how well things cohere like a raft on the open sea floating around with no permanent tether)

Selected Topics in Information and Coding Theory Oct 05 2020 The last few years have witnessed rapid advancements in information and coding theory research and applications. This book provides a comprehensive guide to selected topics, both ongoing and emerging, in information and coding theory. Consisting of contributions from well-known and high-profile researchers in their respective specialties, topics that are covered include source coding; channel capacity; linear complexity; code construction, existence and analysis; bounds on codes and designs; space-time coding; LDPC codes; and codes and cryptography.All of the chapters are integrated in a manner that renders the book as a supplementary reference volume or textbook for use in both undergraduate and graduate courses on information

and coding theory. As such, it will be a valuable text for students at both undergraduate and graduate levels as well as instructors, researchers, engineers, and practitioners in these fields.Supporting Powerpoint Slides are available upon request for all instructors who adopt this book as a course text.

Special Topics in Structural Dynamics & Experimental Techniques, Volume 5 Dec 07 2020 Special Topics in Structural Dynamics & Experimental Techniques, Volume 5: Proceedings of the 37th IMAC, A Conference and Exposition on Structural Dynamics, 2019, the fifth volume of eight from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics, including papers on: Analytical Methods Emerging Technologies for Structural Dynamics Engineering Extremes Experimental Techniques Finite Element Techniques General Topics

Special Topics in Information Technology Mar 10 2021 This open access book presents thirteen outstanding doctoral dissertations in Information Technology from the Department of Electronics, Information and Bioengineering, Politecnico di Milano, Italy. Information Technology has always been highly interdisciplinary, as many aspects have to be considered in IT systems. The

doctoral studies program in IT at Politecnico di Milano emphasizes this interdisciplinary nature, which is becoming more and more important in recent technological advances, in collaborative projects, and in the education of young researchers. Accordingly, the focus of advanced research is on pursuing a rigorous approach to specific research topics starting from a broad background in various areas of Information Technology, especially Computer Science and Engineering, Electronics, Systems and Control, and Telecommunications. Each year, more than 50 PhDs graduate from the program. This book gathers the outcomes of the thirteen best theses defended in 2020-21 and selected for the IT PhD Award. Each of the authors provides a chapter summarizing his/her findings, including an introduction, description of methods, main achievements and future work on the topic. Hence, the book provides a cutting-edge overview of the latest research trends in Information Technology at Politecnico di Milano, presented in an easy-to-read format that will also appeal to non-specialists.

Selected Topics in Nonlinear Wave Mechanics Jul 02 2020 This book gives an overview ofthe current state of nonlinear wave mechanics with emphasis on strong discontinuities (shock waves) and localized self preserving shapes (solitons) in both elastic and fluid

media. The exposition is intentionallyat a detailed mathematical and physical level, our expectation being that the reader will enjoy coming to grips in a concrete manner with advances in this fascinating subject. Historically, modern research in nonlinear wave mechanics began with the famous 1858 piston problem paper of Riemann on shock waves and con tinued into the early part of the last century with the work of Hadamard, Rankine, and Hugoniot. After WWII, research into nonlinear propagation of dispersive waves rapidly accelerated with the advent of computers. Works of particular importance in the immediate post-war years include those of von Neumann, Fermi, and Lax. Later, additional contributions were made by Lighthill, Glimm, Strauss, Wendroff, and Bishop. Dispersion alone leads to shock fronts of the propagating waves. That the nonlinearity can com pensate for the dispersion, leading to propagation with a stable wave having constant velocity and shape (solitons) came as a surprise. A solitary wave was first discussed by J. Scott Russell in 1845 in "Report of British Asso ciations for the Advancement of Science. " He had, while horseback riding, observed a solitary wave travelling along a water channel and followed its unbroken progress for over a mile.

Selected Topics in Nanoscience and

Nanotechnology Jul 14 2021

Special Topics in Intellectual Property Aug 15 2021 This book is an overview of the combined fields of Intellectual Property and Information Science that highlights the specialty training and education required to work in this field.

Special Topics in Leaf Beetle Biology May 12 2021 This book is primarily the result of the Leaf Beetle research presented at the Fifth International Symposium on the Chrysomelidae, held on 25-27 July 2000 in conjunction with the XXI International Congress of Entomology, in Iguassu Falls, Brazil. It is a collection of papers by leading experts on Leaf Beetles from over 15 countries discussing their research on all 5 major continents concerning systematics, diversity, phylogeny, biology, ecology, genetics, etc.

Special Topics in Structural Dynamics & Experimental Techniques, Volume 5 Mar 22 2022 Special Topics in Structural Dynamics & Experimental Techniques, Volume 5: Proceedings of the 38th MAC, A Conference and Exposition on Structural Dynamics, 2020, the fifth volume of eight from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics, including papers on: Analytical Methods Emerging Technologies for Structural

Dynamics Engineering Extremes Experimental Techniques Finite Element Techniques General Topics

Special Topics in Information Technology Nov 29 2022 This open access book presents nine outstanding doctoral dissertations in Information Technology from the Department of Electronics, Information and Bioengineering, Politecnico di Milano, Italy. Information Technology has always been highly interdisciplinary, as many aspects have to be considered in IT systems. The doctoral studies program in IT at Politecnico di Milano emphasizes this interdisciplinary nature, which is becoming more and more important in recent technological advances, in collaborative projects, and in the education of young researchers. Accordingly, the focus of advanced research is on pursuing a rigorous approach to specific research topics starting from a broad background in various areas of Information Technology, especially Computer Science and Engineering, Electronics, Systems and Controls, and Telecommunications. Each year, more than 50 PhDs graduate from the program. This book gathers the outcomes of the nine best theses defended in 2018-19 and selected for the IT PhD Award. Each of the nine authors provides a chapter summarizing his/her findings, including an introduction, description of methods, main achievements and future work on the topic. Hence, the book provides a cutting-edge

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Special Topics in Carcinogenesis Sep 15 2021 With contributions by numerous experts

Special Topics in Structural Dynamics, Volume 6 Feb 18 2022 Special Topics in Structural Dynamics, Volume 6. Proceedings of the 34th IMAC, A Conference and Exposition on Dynamics of Multiphysical Systems: From Active Materials to Vibroacoustics, 2016, the sixth volume of ten from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics, including papers on: • Analytical Methods • Biological Systems • Dynamic Systems • Dynamics of Multi-Physical Systems • Structural Control • Simulation

Special Topics in Resuscitation Sep 27 2022 This book, published by "IntechOpen," highlights some interesting topics of resuscitation. Divided into two sections, the book emphasizes details about the role of the Emergency Medical Services Physician in prehospital resuscitation as well as special circumstances, such as resuscitation in the delivery room and possible future applications in the field, like the use of transthoracic

impedance signal. The authors offer the reader not only a "vigorous" review of the current literature but also a research path for further advancement.

Special Topics in Being a Human Feb 01 2023 As an author, educator, and public speaker, S. Bear Bergman has documented his experience as, among other things, a trans parent, with wit and aplomb. He also writes the advice column “Ask Bear,” in which he answers crucial questions about how best to make our collective way through the world. Featuring disarming illustrations by Saul Freedman-Lawson, Special Topics in Being a Human elaborates on “Ask Bear”’s premise: a gentle, witty, and insightful book of practical advice for the modern age. It offers Dad advice and Jewish bubbe wisdom, all filtered through a queer lens, to help you navigate some of the complexities of life—from how to make big decisions or make a good apology, to how to get someone’s new name and pronouns right as quickly as possible, to how to gracefully navigate a breakup. With warmth and candor, Special Topics in Being a Human calls out social inequities and injustices in traditional advice-giving, validates your feelings, asks a lot of questions, and tries to help you be your best possible self with kindness, compassion, and humor.

Special Topics in Multimedia, IoT and Web Technologies Apr 22 2022 This book presents a set of

recent advances that involve the areas of multimedia, IoT, and web technologies. These advances incorporate aspects of clouds, artificial intelligence, data analysis, user experience, and games. In this context, the work will bring the reader the opportunity to understand new possibilities of use and research in these areas. We think that this book is suitable for students (postgraduates and undergraduates) and lecturers on these specific topics. Professionals can also benefit from the book since some chapters work with practical aspects relevant to the industry.

Selected Topics in WiMAX Aug 03 2020 In June 2001, operators and equipment vendors in the communications ecosystem founded the nonprofit WiMAX Forum, an industry-led organization aimed at harmonizing broadband wireless access standards. Nowadays, about 10 years later, the WiMAX technology is a mature and affordable solution for high-speed IP-based 4G mobile broadband, fully supporting bandwidth-intensive services,such as high-speed Internet access and television, as well as less bandwidth-demanding but more latency-sensitive services, such as voice-over-IP calls. In this book a collection of selected papers is presented, which covers several aspects of the WiMAX technology, with particular reference to multiuser multiple input multiple output diversity techniques,peak-to-average power

ratio, mesh architectures, handover mechanisms, coordinated authentication in a heterogeneous network environment and multicast /broadcast re-keying algorithms.

Lectures on Selected Topics in Mathematical Physics Sep 03 2020 This volume is a basic introduction to certain aspects of elliptic functions and elliptic integrals. Primarily, the elliptic functions stand out as closed solutions to a class of physical and geometrical problems giving rise to nonlinear differential equations. While these nonlinear equations may not be the types of greatest interest currently, the fact that they are solvable exactly in terms of functions about which much is known makes up for this. The elliptic functions of Jacobi, or equivalently the Weierstrass elliptic functions, inhabit the literature on current problems in condensed matter and statistical physics, on solitons and conformal representations, and all sorts of famous problems in classical mechanics. The lectures on elliptic functions have evolved as part of the first semester of a course on theoretical and mathematical methods given to first and second year graduate students in physics and chemistry at the University of North Dakota. They are for graduate students or for researchers who want an elementary introduction to the subject that nevertheless leaves them with enough of the details to address real problems. The style is

supposed to be informal. The intention is to introduce the subject as a moderate extension of ordinary trigonometry in which the reference circle is replaced by an ellipse. This entre depends upon fewer tools and has seemed less intimidating that other typical introductions to the subject that depend on some knowledge of complex variables. The first three lectures assume only calculus, including the chain rule and elementary knowledge of differential equations. In the later lectures, the complex analytic properties are introduced naturally so that a more complete study becomes possible.

Special Topics in Information Technology May 24 2022 This open access book presents outstanding doctoral dissertations in Information Technology from the Department of Electronics, Information and Bioengineering, Politecnico di Milano, Italy. Information Technology has always been highly interdisciplinary, as many aspects have to be considered in IT systems. The doctoral studies program in IT at Politecnico di Milano emphasizes this interdisciplinary nature, which is becoming more and more important in recent technological advances, in collaborative projects, and in the education of young researchers. Accordingly, the focus of advanced research is on pursuing a rigorous approach to specific research topics starting from a broad background in various areas of Information

Technology, especially Computer Science and Engineering, Electronics, Systems and Control, and Telecommunications. Each year, more than 50 PhDs graduate from the program. This book gathers the outcomes of the best theses defended in 2021-22 and selected for the IT PhD Award. Each of the authors provides a chapter summarizing his/her findings, including an introduction, description of methods, main achievements and future work on the topic. Hence, the book provides a cutting-edge overview of the latest research trends in Information Technology at Politecnico di Milano, presented in an easy-to-read format that will also appeal to non-specialists.

Categorical Foundations Jan 26 2020 Publisher Description

Selected Topics in Robotics for Space Exploration Mar 29 2020

Special Topics In Science Education Research Jun 24 2022

Selected Topics in Almost Periodicity Nov 05 2020 Covers uniformly recurrent solutions and c-almost periodic solutions of abstract Volterra integro-differential equations as well as various generalizations of almost periodic functions in Lebesgue spaces with variable coefficients. Treats multi-dimensional almost periodic type functions and their generalizations in adequate detail.

Selected Topics in Geometry with Classical vs. Computer Proving Apr 10 2021 This textbook presents various automatic techniques based on Gröbner bases elimination to prove well-known geometrical theorems and formulas. Besides proving theorems, these methods are used to discover new formulas, solve geometric inequalities, and construct objects — which cannot be easily done with a ruler and compass. Each problem is firstly solved by an automatic theorem proving method. Secondly, problems are solved classically — without using computer where possible — so that readers can compare the strengths and weaknesses of both approaches.

Special Topics in Algebra Oct 29 2022

Selected Topics In Quantum Field Theory And Mathematical Physics Feb 27 2020

Special Topics in Transport Phenomena Mar 02 2023 This book is a research monograph on transport phenomena. The topics discussed are often mathematically simple, though conceptually complex. The book is written in a colloquial style which a good teacher uses in the classroom. It originates from the author's wealth of teaching experience in this area and incorporates suggestions from colleagues worldwide.

Special Topics in Topological Algebras Nov 17 2021 Based on seminars on commutative Banach algebras,

Von Neumann algebras, topological algebras and holomorphic functions.

Complex Analysis and Special Topics in Harmonic Analysis Jan 20 2022 A companion volume to the text "Complex Variables: An Introduction" by the same authors, this book further develops the theory, continuing to emphasize the role that the Cauchy-Riemann equation plays in modern complex analysis. Topics considered include: Boundary values of holomorphic functions in the sense of distributions; interpolation problems and ideal theory in algebras of entire functions with growth conditions; exponential polynomials; the G transform and the unifying role it plays in complex analysis and transcendental number theory; summation methods; and the theorem of L. Schwarz concerning the solutions of a homogeneous convolution equation on the real line and its applications in harmonic function theory.

Special Topics in Interventional Cardiology , An Issue of Interventional Cardiology Clinics, E-Book Dec 19 2021 In this issue of Interventional Cardiology Clinics, guest editor Dr. Marvin H. Eng brings his considerable expertise to the topic of Special Topics in Interventional Cardiology. Top experts in the field cover key topics such as cath lab management in the setting of an infectious disease pandemic; acute neurointervention for ischemic stroke; percutaneous large thrombus and

vegetation evacuation in the cath lab; and more. Contains 12 relevant, practice-oriented topics including intra-cardiac echocardiography for tricuspid valve intervention; alcohol septal ablation for hypertrophic obstructive cardiomyopathy; use of electrosurgery in interventional cardiology; and more. Provides in-depth clinical reviews on special topics in interventional cardiology, offering actionable insights for clinical practice. Presents the latest information on this timely, focused topic under the leadership of experienced editors in the field. Authors synthesize and distill the latest research and practice guidelines to create clinically significant, topic-based reviews.

Special Topics in Endocrinology and Metabolism Oct 17 2021

Selected Topics in Obstetrics and Gynaecology-3: For Postgraudate and Practitioners Dec 27 2019 This is the third issue of the popular series Selected Topics in Obstetrics and Gynaecology. The objective of the series is to present updates and reviews of the current trends in selected and emerging areas of obstetrics and gynaecology, including Indian experience in the subject under review.Selection of topics provides a focus on a range of interesting subjects in a stimulating and concise manner. These review articles are aimed at providing quick updates on the subjects to equip the postgraduate students with contemporary knowledge,

and to help practitioners to adopt the recent trends in patient care.

Special Topics in Calamity Physics Apr 03 2023 She found her teacher dead - Hanging by a piece of electrical cord. The North Carolina police think it was suicide. Her former friends - the Bluebloods - blame her for being there. And her father tells her to leave it alone. But Blue van Meer is a student of books and can't let a mystery go. Because all her life puzzles both complicated and intricate have littered her path - her mother's death in a car crash; a childhood spent roaming from town to town; her dad's serial affairs. Are these the fantasies of a teenager too lonely or too clever for her own good? Or has Blue stumbled on something so dark, so devious, that her whole world is about to be flipped upside down?

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- Special Topics In Resuscitation
- Special Topics In Drug Discovery
- Special Topics In Carcinogenesis
- Special Topics In Science Education Research
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- Selected Topics In Nonlinear Wave Mechanics
- Selected Topics In Image Science
- Selected Topics In DNA Repair
- Selected Topics In Robotics For Space Exploration
- Selected Topics In Quantum Field Theory And Mathematical Physics
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- Selected Topics In Obstetrics And Gynaecology 3 For Postgraudate And Practitioners