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KEY=BENCHMARK - LEWIS AMIYA

COMPUTER MATHEMATICS

9TH ASIAN SYMPOSIUM (ASCM2009), FUKUOKA, DECEMBER 2009, 10TH ASIAN SYMPOSIUM (ASCM2012), BEIJING, OCTOBER 2012, CONTRIBUTED PAPERS AND INVITED TALKS

Springer **This book covers original research and the latest advances in symbolic, algebraic and geometric computation; computational methods for differential and difference equations, symbolic-numerical computation; mathematics software design and implementation; and scientific and engineering applications based on features, invited talks, special sessions and contributed papers presented at the 9th (in Fukuoka, Japan in 2009) and 10th (in Beijing China in 2012) Asian Symposium on Computer Mathematics (ASCM). Thirty selected and refereed articles in the book present the conference participants' ideas and views on researching mathematics using computers.**

LOW ATTAINERS IN PRIMARY MATHEMATICS

World Scientific **Low Attainers in Primary Mathematics focuses on data from students in Singapore schools. It is widely acknowledged that students from Singapore do well in mathematics in international studies. This book provides readers with a glimpse of students from Singapore who are at the other end of the ability spectrum. The book is based on a study that explored the mathematics content knowledge of Primary 4 low attainers in mathematics, their behaviours, affects and home backgrounds, and learning experiences. Based on the findings of the study, the book has recommendations for teachers of low attainers in primary mathematics. This book serves as a must-have resource for teachers and graduate students in Singapore who are working with or studying low attainers in**

primary mathematics. It also makes a worthy contribution towards literature on low attainers in the field of mathematics education.

SIMULATED EVOLUTION AND LEARNING

9TH INTERNATIONAL CONFERENCE, SEAL 2012, HANOI, VIETNAM, DECEMBER 16-19, 2012, PROCEEDINGS

Springer **This volume constitutes the proceedings of the 9th International Conference on Simulated Evolution and Learning, SEAL 2012, held in Hanoi, Vietnam, in December 2012. The 50 full papers presented were carefully reviewed and selected from 91 submissions. The papers are organized in topical sections on evolutionary algorithms, theoretical developments, swarm intelligence, data mining, learning methodologies, and real-world applications.**

PARALLEL PROCESSING AND APPLIED MATHEMATICS

10TH INTERNATIONAL CONFERENCE, PPAM 2013, WARSAW, POLAND, SEPTEMBER 8-11, 2013, REVISED SELECTED PAPERS, PART I

Springer **This two-volume-set (LNCS 8384 and 8385) constitutes the refereed proceedings of the 10th International Conference of Parallel Processing and Applied Mathematics, PPAM 2013, held in Warsaw, Poland, in September 2013. The 143 revised full papers presented in both volumes were carefully reviewed and selected from numerous submissions. The papers cover important fields of parallel/distributed/cloud computing and applied mathematics, such as numerical algorithms and parallel scientific computing; parallel non-numerical algorithms; tools and environments for parallel/distributed/cloud computing; applications of parallel computing; applied mathematics, evolutionary computing and metaheuristics.**

RUNTIME VERIFICATION

THIRD INTERNATIONAL CONFERENCE, RV 2012, ISTANBUL, TURKEY, SEPTEMBER 25-28, 2012, REVISED SELECTED PAPERS

Springer **This book constitutes the thoroughly refereed post-conference proceedings of the Third International Conference on Runtime Verification, RV 2012, held in Istanbul, Turkey, in September 2012. The 25 revised full papers presented together with 3 invited papers and 2 tutorials were carefully reviewed and selected from 50 submissions. The papers address a wide range of specification languages and formalisms for traces, specification mining, program instrumentation, monitor construction techniques, logging, recording, and replay, fault detection, localization, recovery and repair, program steering and adaptation, metrics and statistical information gathering, combination of static and dynamic analyses and program execution visualization.**

LEARNING AND INTELLIGENT OPTIMIZATION

6TH INTERNATIONAL CONFERENCE, LION 6, PARIS, FRANCE, JANUARY 16-20, 2012, REVISED SELECTED PAPERS

Springer **This book constitutes the thoroughly refereed post-conference proceedings of the 6th International Conference on Learning and Intelligent Optimization, LION 6, held in Paris, France, in January 2012. The 23 long and 30 short revised papers were carefully reviewed and selected from a total of 99 submissions. The papers focus on the intersections and uncharted territories between machine learning, artificial intelligence, mathematical programming and algorithms for hard optimization problems. In addition to the paper contributions the conference also included 3 invited speakers, who presented forefront research results and frontiers, and 3 tutorial talks, which were crucial in bringing together the different components of LION community.**

TIMSS 2011 INTERNATIONAL RESULTS IN MATHEMATICS

FUNCTIONALS OF MULTIDIMENSIONAL DIFFUSIONS WITH APPLICATIONS TO FINANCE

Springer Science & Business Media **This research monograph provides an introduction to tractable multidimensional diffusion models, where transition densities, Laplace transforms, Fourier transforms, fundamental solutions or functionals can be obtained in explicit form. The book also provides an introduction to the use of Lie symmetry group methods for diffusions, which allows to compute a wide range of functionals. Besides the well-known methodology on affine diffusions it presents a novel approach to affine processes with applications in finance. Numerical methods, including Monte Carlo and quadrature methods, are discussed together with supporting material on stochastic processes. Applications in finance, for instance, on credit risk and credit valuation adjustment are included in the book. The functionals of multidimensional diffusions analyzed in this book are significant for many areas of application beyond finance. The book is aimed at a wide readership, and develops an intuitive and rigorous understanding of the mathematics underlying the derivation of explicit formulas for functionals of multidimensional diffusions.**

THEORY AND APPLICATIONS OF SATISFIABILITY TESTING -- SAT 2012

15TH INTERNATIONAL CONFERENCE, TRENTO, ITALY, JUNE 17-20, 2012, PROCEEDINGS

Springer **This book constitutes the refereed proceedings of the 15th International Conference on Theory and Applications of Satisfiability Testing, SAT 2012, held in Trento, Italy, in June 2012. The 29 revised full papers, 7 tool papers, and 16 poster papers presented together with 2**

invited talks were carefully reviewed and selected from 112 submissions (88 full, 10 tool and 14 poster papers). The papers are organized in topical sections on stochastic local search, theory, quantified Boolean formulae, applications, parallel and portfolio approaches, CDCL SAT solving, MAX-SAT, cores interpolants, complexity analysis, and circuits and encodings.

ECAI 2012

20TH EUROPEAN CONFERENCE ON ARTIFICIAL INTELLIGENCE

IOS Press **Artificial intelligence (AI) plays a vital part in the continued development of computer science and informatics. The AI applications employed in fields such as medicine, economics, linguistics, philosophy, psychology and logical analysis, not forgetting industry, are now indispensable for the effective functioning of a multitude of systems. This book presents the papers from the 20th biennial European Conference on Artificial Intelligence, ECAI 2012, held in Montpellier, France, in August 2012. The ECAI conference remains Europe's principal opportunity for researchers and practitioners of Artificial Intelligence to gather and to discuss the latest trends and challenges in all subfields of AI, as well as to demonstrate innovative applications and uses of advanced AI technology. ECAI 2012 featured four keynote speakers, an extensive workshop program, seven invited tutorials and the new Frontiers of Artificial Intelligence track, in which six invited speakers delivered perspective talks on particularly interesting new research results, directions and trends in Artificial Intelligence or in one of its related fields. The proceedings of PAIS 2012 and the System Demonstrations Track are also included in this volume, which will be of interest to all those wishing to keep abreast of the latest developments in the field of AI.**

C2 RE-ENVISIONED

THE FUTURE OF THE ENTERPRISE

CRC Press **Command and Control (C2) is the set of organizational and technical attributes and processes by which an enterprise marshals and employs human, physical, and information resources to solve problems and accomplish missions.C2 Re-envisioned: The Future of the Enterprise identifies four interrelated megatrends that are individually and collectively shaping the state of the art and practice of C2 as well as the mission challenges we face. These megatrends the book examines are: Big Problems—manifested in part as increasing complexity of both endeavors and enterprises, as military establishments form coalitions with each other, and partnerships with various civilian agencies and non-governmental organizations Robustly Networked Environments—enabled by the extremely broad availability of advanced information and communications technologies (ICT) that place unprecedented powers of information creation, processing, and distribution in the hands of almost**

anyone who wants them—friend and foe alike Ubiquitous Data—the unprecedented volumes of raw and processed information with which human actors and C2 systems must contend Organizational alternatives—as decentralized, net-enabled approaches to C2 have been made more feasible by technology. The book analyzes historical examples and experimental evidence to determine the critical factors that make C2 go wrong and how to get it right. Successful enterprises in the future will be those that can reconfigure their approaches in an agile manner. Offering fresh perspectives on this subject of critical importance, this book provides the understanding you will need to choose your organizational approaches to suit the mission and the conditions at hand.

VERIFIED SOFTWARE: THEORIES, TOOLS, EXPERIMENTS

4TH INTERNATIONAL CONFERENCE, VSTTE 2012, PHILADELPHIA, PA, USA, JANUARY 28-29, 2012 PROCEEDINGS

Springer Science & Business Media **This volume contains the proceedings of the 4th International Conference on Verified Software: Theories, Tools, and Experiments, VSTTE 2012, held in Philadelphia, PA, USA, in January 2012. The 20 revised full papers presented together with 2 invited talks and 2 tutorials were carefully revised and selected from 54 initial submissions for inclusion in the book. The goal of the VSTTE conference is to advance the state of the art through the interaction of theory development, tool evolution, and experimental validation. The papers address topics such as: specification and verification techniques, tool support for specification languages, tool for various design methodologies, tool integration and plug-ins, automation in formal verification, tool comparisons and benchmark repositories, combination of tools and techniques, customizing tools for particular applications, challenge problems, refinement methodologies, requirements modeling, specification languages, specification/verification case-studies, software design methods, and program logic.**

PARALLEL PROCESSING AND APPLIED MATHEMATICS, PART II

9TH INTERNATIONAL CONFERENCE, PPAM 2011, TORUN, POLAND, SEPTEMBER 11-14, 2011. REVISED SELECTED PAPERS, PART II

Springer **This two-volume-set (LNCS 7203 and 7204) constitutes the refereed proceedings of the 9th International Conference on Parallel Processing and Applied Mathematics, PPAM 2011, held in Torun, Poland, in September 2011. The 130 revised full papers presented in both volumes were carefully reviewed and selected from numerous submissions. The papers address issues such as parallel/distributed architectures and mobile computing; numerical algorithms and parallel numerics; parallel non-numerical algorithms; tools and environments for parallel/distributed/grid computing; applications of parallel/distributed computing; applied**

mathematics, neural networks and evolutionary computing; history of computing.

11+ MATHS MULTIPLE CHOICE PRACTICE PAPERS

A radically different new concept in exam preparation, providing individual on-line evaluation and vital access to peer group comparison. The First Past the Post Practice papers series is a leading-edge new product for 11+ exam preparation formulated by on-line market leader ElevenPlusExams. There is no national syllabus for the 11+ exam, no pass mark and no retake option. Unlike conventional exams it's always been examined on a first past the post principle. This is where the 11+ Peer-Compare system comes in: the key to success or failure is how the student performs against peers.

PROCEEDINGS OF INTERNATIONAL CONFERENCE ON EMERGING TECHNOLOGIES AND INTELLIGENT SYSTEMS

ICETIS 2021 (VOLUME 1).

Springer Nature **This book sheds light on the emerging research trends in intelligent systems and their applications. It mainly focuses on three different themes, including software engineering, ICT in education, and management information systems. Each chapter contributes to the aforementioned themes by discussing the recent design, developments, and modifications of intelligent systems and their applications.**

RABI N. BHATTACHARYA

SELECTED PAPERS

Birkhäuser **This volume presents some of the most influential papers published by Rabi N. Bhattacharya, along with commentaries from international experts, demonstrating his knowledge, insight, and influence in the field of probability and its applications. For more than three decades, Bhattacharya has made significant contributions in areas ranging from theoretical statistics via analytical probability theory, Markov processes, and random dynamics to applied topics in statistics, economics, and geophysics. Selected reprints of Bhattacharya's papers are divided into three sections: Modes of Approximation, Large Times for Markov Processes, and Stochastic Foundations in Applied Sciences. The accompanying articles by the contributing authors not only help to position his work in the context of other achievements, but also provide a unique assessment of the state of their individual fields, both historically and for the next generation of researchers. Rabi N. Bhattacharya: Selected Papers will be a valuable resource for young researchers entering the diverse areas of study to which Bhattacharya has contributed. Established researchers will also appreciate this work as an account of both past and present developments and challenges for the future.**

EVOLUTIONARY COMPUTATION IN COMBINATORIAL OPTIMIZATION

12TH EUROPEAN CONFERENCE, EVOCOP 2012, MÁLAGA, SPAIN, APRIL 11-13, 2012, PROCEEDINGS

Springer **This book constitutes the refereed proceedings of the 12th European Conference on Evolutionary Computation in Combinatorial Optimization, EvoCOP 2012, held in Málaga, Spain, in April 2012, colocated with the Evo* 2012 events EuroGP, EvoBIO, EvoMUSART, and EvoApplications. . The 22 revised full papers presented were carefully reviewed and selected from 48 submissions. The papers present the latest research and discuss current developments and applications in metaheuristics - a paradigm to effectively solve difficult combinatorial optimization problems appearing in various industrial, economic, and scientific domains. Prominent examples of metaheuristics are evolutionary algorithms, simulated annealing, tabu search, scatter search, memetic algorithms, variable neighborhood search, iterated local search, greedy randomized adaptive search procedures, estimation of distribution algorithms, and ant colony optimization.**

EURO-PAR 2012 PARALLEL PROCESSING

18TH INTERNATIONAL CONFERENCE, EURO-PAR 2012, RHODES ISLAND, GREECE, AUGUST 27-31, 2012. PROCEEDINGS

Springer **This book constitutes the thoroughly refereed proceedings of the 18th International Conference, Euro-Par 2012, held in Rhodes Islands, Greece, in August 2012. The 75 revised full papers presented were carefully reviewed and selected from 228 submissions. The papers are organized in topical sections on support tools and environments; performance prediction and evaluation; scheduling and load balancing; high-performance architectures and compilers; parallel and distributed data management; grid, cluster and cloud computing; peer to peer computing; distributed systems and algorithms; parallel and distributed programming; parallel numerical algorithms; multicore and manycore programming; theory and algorithms for parallel computation; high performance network and communication; mobile and ubiquitous computing; high performance and scientific applications; GPU and accelerators computing.**

INTELLIGENT COMPUTER MATHEMATICS

12TH INTERNATIONAL CONFERENCE, CICM 2019, PRAGUE, CZECH REPUBLIC, JULY 8–12, 2019, PROCEEDINGS

Springer **This book constitutes the refereed proceedings of the 12th International Conference on Intelligent Computer Mathematics, CICM 2019, held in Prague, Czech Republic, in July 2019. The 19 full papers presented**

were carefully reviewed and selected from a total of 41 submissions. The papers focus on digital and computational solutions which are becoming the prevalent means for the generation, communication, processing, storage and curation of mathematical information. Separate communities have developed to investigate and build computer based systems for computer algebra, automated deduction, and mathematical publishing as well as novel user interfaces. While all of these systems excel in their own right, their integration can lead to synergies offering significant added value.

ECRM2012- 9TH EUROPEAN CONFERENCE ON RESEARCH METHODS IN BUSINESS MANAGEMENT

ECRM 2012

Academic Conferences Limited

ECRM2012-PROCEEDINGS OF THE 11TH EUROPEAN CONFERENCE ON RESEARCH METHODS

ECRM 2012

Academic Conferences Limited **Proceedings of the 11th European Conference on Research Methods in Bolton, UK, on 28-29 June 2011**

ISSUES IN APPLIED MATHEMATICS: 2013 EDITION

ScholarlyEditions **Issues in Applied Mathematics / 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Mathematical Physics. The editors have built Issues in Applied Mathematics: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Mathematical Physics in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Applied Mathematics: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.**

CAN MAP SCORES BE PREDICTED FROM STUDY ISLAND BENCHMARK

High stakes testing has become the nation's focus on the accountability for school districts and educators. Using predictive data to forecast results can provide information prior to high stakes testing to allow for differentiated or provide information prior to high stakes testing to allow for differentiated or additional instruction to students who do not meet the

expected proficiency requirement. In this paper a linear regression analysis was conducted to predict the outcome of the Missouri Assessment Program for the same sixth (2009-2010), seventh (2010-2011) and eighth (2011-2012) grade students. Study Island, a web-based instructional program, scores were analyzed to forecast student results. The results indicated that the communication arts Study Island benchmark scores were a predictor of a proficient score, proficient is a score in the range of 676-703. on the Missouri Assessment Program when the student scored 21 or higher on the Study Island benchmark. The MAP ranges the scores for communication arts from below basic (505-630), basic (631-675). Proficient (676-703) and advanced (704-855). The results indicated that the mathematics Study Island benchmark scores were a predictor of a proficient score, proficient is a score in the range of 685-723. on the Missouri Assessment Program when the student scored 21 or higher on the Study Island benchmark. The MAP ranges the scores for mathematics from below basic (510-639), basic (640-684), Proficient (685-723) and advanced (724-860).

HIGH PERFORMANCE COMPUTING FOR COMPUTATIONAL SCIENCE - VECPAR 2012

10TH INTERNATIONAL CONFERENCE, KOPE, JAPAN, JULY 17-20, 2012, REVISED SELECTED PAPERS

Springer **This book constitutes the thoroughly refereed post-conference proceedings of the 10th International Conference on High Performance Computing for Computational Science, VECPAR 2012, held in Kope, Japan, in July 2012. The 28 papers presented together with 7 invited talks were carefully selected during two rounds of reviewing and revision. The papers are organized in topical sections on CPU computing, applications, finite element method from various viewpoints, cloud and visualization performance, method and tools for advanced scientific computing, algorithms and data analysis, parallel iterative solvers on multicore architectures.**

PARALLEL PROBLEM SOLVING FROM NATURE - PPSN XII

12TH INTERNATIONAL CONFERENCE, TAORMINA, ITALY, SEPTEMBER 1-5, 2012, PROCEEDINGS, PART II

Springer **The two volume set LNCS 7491 and 7492 constitutes the refereed proceedings of the 12th International Conference on Parallel Problem Solving from Nature, PPSN 2012, held in Taormina, Sicily, Italy, in September 2012. The total of 105 revised full papers were carefully reviewed and selected from 226 submissions. The meeting began with 6 workshops which offered an ideal opportunity to explore specific topics in evolutionary computation, bio-inspired computing and metaheuristics.**

PPSN 2012 also included 8 tutorials. The papers are organized in topical sections on evolutionary computation; machine learning, classifier systems, image processing; experimental analysis, encoding, EDA, GP; multiobjective optimization; swarm intelligence, collective behavior, coevolution and robotics; memetic algorithms, hybridized techniques, meta and hyperheuristics; and applications.

RECENT DEVELOPMENTS AND THE NEW DIRECTION IN SOFT-COMPUTING FOUNDATIONS AND APPLICATIONS

SELECTED PAPERS FROM THE 6TH WORLD CONFERENCE ON SOFT COMPUTING, MAY 22-25, 2016, BERKELEY, USA

Springer **This book is an authoritative collection of contributions in the field of soft-computing. Based on selected works presented at the 6th World Conference on Soft Computing, held on May 22-25, 2016, in Berkeley, USA, it describes new theoretical advances, as well as cutting-edge methods and applications. Theories cover a wealth of topics, such as fuzzy logic, cognitive modeling, Bayesian and probabilistic methods, multi-criteria decision making, utility theory, approximate reasoning, human-centric computing and many others. Applications concerns a number of fields, such as internet and semantic web, social networks and trust, control and robotics, computer vision, medicine and bioinformatics, as well as finance, security and e-Commerce, among others. Dedicated to the 50th Anniversary of Fuzzy Logic and to the 95th Birthday Anniversary of Lotfi A. Zadeh, the book not only offers a timely view on the field, yet it also discusses thought-provoking developments and challenges, thus fostering new research directions in the diverse areas of soft computing.**

HIGH PERFORMANCE COMPUTING SYSTEMS. PERFORMANCE MODELING, BENCHMARKING AND SIMULATION

4TH INTERNATIONAL WORKSHOP, PMBS 2013, DENVER, CO, USA, NOVEMBER 18, 2013. REVISED SELECTED PAPERS

Springer **This book constitutes the refereed proceedings of the 4th International Workshop, PMBS 2013 in Denver, CO, USA in November 2013. The 14 papers presented in this volume were carefully reviewed and selected from 37 submissions. The selected articles broadly cover topics on massively parallel and high-performance simulations, modeling and simulation, model development and analysis, performance optimization, power estimation and optimization, high performance computing, reliability, performance analysis, and network simulations.**

LEVERAGING APPLICATIONS OF FORMAL METHODS, VERIFICATION AND VALIDATION. VERIFICATION

8TH INTERNATIONAL SYMPOSIUM, ISOLA 2018, LIMASSOL, CYPRUS, NOVEMBER 5-9, 2018, PROCEEDINGS, PART II

Springer **The four-volume set LNCS 11244, 11245, 11246, and 11247 constitutes the refereed proceedings of the 8th International Symposium on Leveraging Applications of Formal Methods, Verification and Validation, ISoLA 2018, held in Limassol, Cyprus, in October/November 2018. The papers presented were carefully reviewed and selected for inclusion in the proceedings. Each volume focusses on an individual topic with topical section headings within the volume: Part I, Modeling: Towards a unified view of modeling and programming; X-by-construction, STRESS 2018. Part II, Verification: A broader view on verification: from static to runtime and back; evaluating tools for software verification; statistical model checking; RERS 2018; doctoral symposium. Part III, Distributed Systems: rigorous engineering of collective adaptive systems; verification and validation of distributed systems; and cyber-physical systems engineering. Part IV, Industrial Practice: runtime verification from the theory to the industry practice; formal methods in industrial practice - bridging the gap; reliable smart contracts: state-of-the-art, applications, challenges and future directions; and industrial day.**

MATHEMATICS—ADVANCES IN RESEARCH AND APPLICATION: 2013 EDITION

SCHOLARLYBRIEF

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Random Structures and Algorithms. The editors have built Issues in Logic, Operations, and Computational Mathematics and Geometry: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Random Structures and Algorithms in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Logic, Operations, and Computational Mathematics and Geometry: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

MERGERS AND ALLIANCES IN HIGHER EDUCATION

INTERNATIONAL PRACTICE AND EMERGING OPPORTUNITIES

Springer **This volume casts light on mergers and alliances in higher education by examining developments of this type in different countries. It combines the direct experiences of those at the heart of such transformations, university leaders and senior officials responsible for higher education policy, with expert analysts of the systems concerned. Higher education in Europe faces a series of major challenges. The economic crisis has accelerated expectations of an increased role in addressing economic and societal challenges while at the same time putting pressure on available finances. Broader trends such as shifting student demographics and expectations, globalisation and mobility and new ways of working with business have contributed to these increased pressures. In the light of these trends there have been moves, both from national or regional agencies and from individual institutions to respond by combining resources, either through collaborative arrangements or more fundamentally through mergers between two or more universities. After an introductory chapter by the editors which establishes the context for mergers and alliances, the book falls into two main parts. Part 1 takes a national or regional perspective to give some sense of the historical context, the wider drivers and the importance of these developments in these cases. Included are both systemic accounts (for countries as France, Sweden, Romania, Russia, Wales and England), and specific cross-cutting in itiatives including a major facility at Magurele in Romania and a Spanish programme for promoting international campuses of excellence. Part 2 is built from specific cases of universities, either in mergers or alliances, with examples from different countries (such as France, UK, Romania, Spain, Germany, Denmark, Finland, Switzerland). A concluding chapter by the editors assesses these experiences and indicates the implications and future needs for understanding in this domain.**

ISSUES IN SYSTEMS ENGINEERING: 2013 EDITION

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PARALLEL PROBLEM SOLVING FROM NATURE - PPSN XII

12TH INTERNATIONAL CONFERENCE, TAORMINA, ITALY, SEPTEMBER 1-5, 2012, PROCEEDINGS, PART I

Springer **The two volume set LNCS 7491 and 7492 constitutes the refereed proceedings of the 12th International Conference on Parallel Problem Solving from Nature, PPSN 2012, held in Taormina, Sicily, Italy, in September 2012. The total of 105 revised full papers were carefully reviewed and selected from 226 submissions. The meeting began with 5 workshops which offered an ideal opportunity to explore specific topics in evolutionary computation, bio-inspired computing and metaheuristics. PPSN 2012 also included 8 tutorials. The papers are organized in topical sections on evolutionary computation; machine learning, classifier systems, image processing; experimental analysis, encoding, EDA, GP; multiobjective optimization; swarm intelligence, collective behavior, coevolution and robotics; memetic algorithms, hybridized techniques, meta and hyperheuristics; and applications.**

SOFTWARE ENGINEERING RESEARCH, MANAGEMENT AND APPLICATIONS

Springer **The purpose of the 11th International Conference on Software Engineering Research, Management and Applications (SERA 2013) held on August 7 - 9, 2012 in Prague, Czech Republic was to bring together scientists, engineers, computer users, and students to share their experiences and exchange new ideas and research results about all aspects (theory, applications and tools) of Software Engineering Research, Management and Applications, and to discuss the practical challenges encountered along the way and the solutions adopted to solve them. The**

conference organizers selected 17 outstanding papers from those papers accepted for presentation at the conference in order to publish them in this volume. The papers were chosen based on review scores submitted by members of the program committee, and further rigorous rounds of review.

PISA TAKE THE TEST SAMPLE QUESTIONS FROM OECD'S PISA ASSESSMENTS

SAMPLE QUESTIONS FROM OECD'S PISA ASSESSMENTS

OECD Publishing **This book presents all the publicly available questions from the PISA surveys. Some of these questions were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment.**

PISA 2012 RESULTS: WHAT MAKES SCHOOLS SUCCESSFUL (VOLUME IV) RESOURCES, POLICIES AND PRACTICES

RESOURCES, POLICIES AND PRACTICES

OECD Publishing **This fourth volume of PISA 2012 results examines how student performance is associated with various characteristics of individual schools and school systems.**

APPLICATIONS OF METAHEURISTICS IN PROCESS ENGINEERING

Springer **Metaheuristics exhibit desirable properties like simplicity, easy parallelizability and ready applicability to different types of optimization problems such as real parameter optimization, combinatorial optimization and mixed integer optimization. They are thus beginning to play a key role in different industrially important process engineering applications, among them the synthesis of heat and mass exchange equipment, synthesis of distillation columns and static and dynamic optimization of chemical and bioreactors. This book explains cutting-edge research techniques in related computational intelligence domains and their applications in real-world process engineering. It will be of interest to industrial practitioners and research academics.**

EXTENDED CURRICULUM PROGRAMMES

CHALLENGES AND OPPORTUNITIES

African Sun Media **The introduction of ECPs in South African Universities is seen by many as South Africa's key strategy for addressing the problem of poor patterns of student success and has its basis on the uncontested acceptance that an extended study duration may be necessary to bring some categories of learners to a level of parity with the readiness expectations of their course of study. Even so, this transformative strategic imperative has been plagued by a range of challenges that**

include poor systems readiness; poor selection mechanisms in the identification of ECP students; poor numeracy and literacy amongst students, and indifferent teacher involvement in ECPs. This volume offers a rare insight into many of the above-recognised challenges and in so doing provides critical matter for thought for educators within the higher education sector.

SOFT COMPUTING FOR PROBLEM SOLVING

SOCPROS 2017, VOLUME 1

Springer **This two-volume book presents outcomes of the 7th International Conference on Soft Computing for Problem Solving, SocProS 2017. This conference is a joint technical collaboration between the Soft Computing Research Society, Liverpool Hope University (UK), the Indian Institute of Technology Roorkee, the South Asian University New Delhi and the National Institute of Technology Silchar, and brings together researchers, engineers and practitioners to discuss thought-provoking developments and challenges in order to select potential future directions The book presents the latest advances and innovations in the interdisciplinary areas of soft computing, including original research papers in the areas including, but not limited to, algorithms (artificial immune systems, artificial neural networks, genetic algorithms, genetic programming, and particle swarm optimization) and applications (control systems, data mining and clustering, finance, weather forecasting, game theory, business and forecasting applications). It is a valuable resource for both young and experienced researchers dealing with complex and intricate real-world problems for which finding a solution by traditional methods is a difficult task.**

ISSUES IN GENERAL AND SPECIALIZED MATHEMATICS RESEARCH: 2013 EDITION

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