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TheArti?cialLifetermappearedmorethan20yearsagoinasmallcornerofNew Mexico, USA. Since then the area has developed dramatically, many researchers joining enthusiastically and research groups sprouting everywhere. This frenetic activity led to the emergence of several strands that are now established ?elds in themselves. We are now reaching a stage that one may describe as maturer: with more rigour, more benchmarks, more results, more stringent acceptance criteria, more applications, in brief, more sound science. This, which is the n- ural path of all new areas, comes at a price, however. A certain enthusiasm, a certain adventurousness from the early years is fading and may have been lost on the way. The ?eld has become more reasonable. To counterbalance this and to encourage lively discussions, a conceptual track, where papers were judged on criteria like importance and/or novelty of the concepts proposed rather than the experimental/theoretical results, has been introduced this year. A conference on a theme as broad as Arti?cial Life is bound to be very - verse,but a few tendencies emerged. First, ?elds like 'Robotics and Autonomous Agents' or 'Evolutionary Computation' are still extremely active and keep on bringing a wealth of results to the A-Life community. Even there, however, new tendencies appear, like collective robotics, and more speci?cally self-assembling robotics, which represent now a large subsection. Second, new areas appear. Arti?cial immune systems (AIS) is a diverse and maturing area of research that bridges the disciplines of immunology and computation. The original research impetus in AIS had a clear focus on applying immunological principles to c- putationalproblemsinpracticaldomainssuchascomputersecurity,datamining and optimization. As the ?eld has matured, it has diversi?ed such that we now see a growing interest in formalizing the theoretical properties of earlier - proaches, elaborating underlying relationships between applied computational models and those from theoretical immunology, as well a return to the roots of the domain in which the methods of computer science are being applied to - munological modelling problems. Following the trends in the ?eld, the ICARIS conference intends to provide a forum for all these perspectives. The 9th InternationalConference on AIS (ICARIS 2010)built on the success of previous years, providing a convenient vantage point for broader re?ection as it returned to Edinburgh, the venue of the Second ICARIS in 2003. This time, the conference was hosted by Edinburgh Napier University at its Craiglockhart Campus, recently reopened after extensive refurbishment which has resulted in a stunning building and state-of-the-art facilities. The extent to which the ?eld has matured over the preceding years is clear; a substantial track of theor- ical research now underpins the discipline. The applied stream has expanded in its outlook, and has examples of AIS algorithms being applied across a wide spectrum of practicalproblems,rangingfrom sensornetworksto semi-conductor design. This book constitutes the refereed conference proceedings of the First International Conference on Emerging Technologies in Computing, iCEtiC 2018, held in London, UK, in August 2018. The 26 revised full papers were reviewed and selected from more than 59 submissions and are organized in topical sections covering Cloud, IoT and distributed computing, software engineering, communications engineering and vehicular technology, AI, expert systems and big data analytics, Web information systems and applications, security, database system, economics and business engineering, mLearning and eLearning. Chiefly tables. This book constitutes the refereed proceedings of the 15th International Conference on Image Analysis and Processing, ICIAP 2009, held in Vietri sul Mare, Italy, in September 2009. The 107 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 168 submissions. The papers are organized in topical sections on computer graphics and image processing, low and middle level processing, 2D and 3D segmentation, feature extraction and image analysis, object detection and recognition, video analysis and processing, pattern analysis and classification, learning, graphs and trees, applications, shape analysis, face analysis, medical imaging, and image analysis and pattern recognition. Nanotechnology for Biomedical Imaging and Diagnostics: From Nanoparticle Design to Clinical Applications reflects upon the increasing role of nanomaterials in biological and medical imaging, presenting a thorough description of current research as well as future directions. With contributions from experts in nanotechnology and imaging from academia, industry, and healthcare, this book provides a comprehensive coverage of the field, ranging from the architectural design of nanomaterials to their broad imaging applications in medicine. Grouped into three sections, the book: Elucidates all major aspects of nanotechnology and bioimaging Provides comprehensive coverage of the field, ranging from the architectural design of nanomaterials to their broad imaging applications in medicine Written by well-recognized experts in academia, industry, and healthcare, will be an excellence source of reference With a multidisciplinary approach and a balance of research and diagnostic topics, this book will appeal to students, scientiests, and healthcare professionals alike This book is concerned with the processing of signals that have been sam pled and digitized. The fundamental theory behind Digital Signal Process ing has been in existence for decades and has extensive applications to the fields of speech and data communications, biomedical engineering, acous tics, sonar, radar, seismology, oil exploration, instrumentation and audio signal processing to name but a few [87]. The term "Digital Signal Processing", in its broadest sense, could apply to any operation carried out on a finite set of measurements for whatever purpose. A book on signal processing would usually contain detailed de scriptions of the standard mathematical machinery often used to describe signals. It would also motivate an approach to real world problems based on concepts and results developed in linear systems theory, that make use of some rather interesting properties of the time and frequency domain representations of signals. While this book assumes some familiarity with traditional methods the emphasis is altogether quite different. The aim is to describe general methods for carrying out optimal signal processing. In the current age of information explosion, newly invented technological sensors and software are now tightly integrated with our everyday lives. Many sensor processing algorithms have incorporated some forms of computational intelligence as part of their core framework in problem solving. These algorithms have the capacity to generalize and discover knowledge for themselves and learn new information whenever unseen data are captured. The primary aim of sensor processing is to develop techniques to interpret, understand, and act on information contained in the data. The interest of this book is in developing intelligent signal processing in order to pave the way for smart sensors. This involves mathematical advancement of nonlinear signal processing theory and its applications that extend far beyond traditional techniques. It bridges the boundary between theory and application, developing novel theoretically inspired methodologies targeting both longstanding and emergent signal processing applications. The topic ranges from phishing detection to integration of terrestrial laser scanning, and from fault diagnosis to bio-inspiring filtering. The book will appeal to established practitioners, along with researchers and students in the emerging field of smart sensors processing. Performance evaluation is a critical stage of software- and hardware-system development that every computer engineer and scientist should master. Although complex – requiring skills in mathematics, measurement techniques and simulation – performance evaluation is primarily an art; indeed, the most difficult stage in a performance analysis is defining the approach: once you know what to do, it is less difficult to define a plan of attack with your familiar software tools. We present a set of topics, which we believe should be part of every engineer's intellectual toolkit. This includes the statistical exploitation of numerical results in an efficient and ethical way, for example: how to summarize variability or fairness; what transient removal in a simulation is; and how to make predictions from a time series. We also present well-known performance patterns, which helps to quickly bring the engineer to the main issues. For queuing theory, we focus on a subset of very useful results, such as operational laws. A highlight of the book is the development of Palm calculus, also called ¬ithe importance of the viewpoint,¬î which is central to queuing theory. Indeed, this topic has so many applications to simulation and to system analysis in general that it is a very good time investment. This book began as a set of lecture notes for a course given at EPFL. Monitoring Plant and Animal Populations offers an overview of population monitoring issues that is accessible to the typical field biologist and land managers with a modest statistical background. The text includes concrete guidelines for ecologists to follow to design a statistically defensible monitoring program. User-friendly, practical guide, written in a highly readable format. The authors provide an interdisciplinary scope to address the current, widespread interest in monitoring in many environmental fields, including pure and applied ecology, conservation biology, and wildlife management. Emphasizes the role of monitoring in adaptive management. Defines important terminology and contrasts monitoring with other data-collection activities. Covers the applicable principles of sampling and shows how to design a monitoring project. Provides a step-by-step overview of the monitoring process, illustrated by flow charts and references. The authors also offer guidelines for analyzing and interpreting monitoring data. Illustrates the foundation of management objectives and describes their components, types, and development. Describes common field techniques for measuring important attributes of animal and plant populations. Reviews different methods for recording monitoring data in the field, managing the data, and communicating data to policy makers. Selected, peer reviewed papers from the 2nd International Conference on Materials Science and Manufacturing (ICMSM 2013), March 29-31, 2013, Zhangjia Jie, China