

Open Source Intelligence Abstraction Layer

This book explains the application of recent advances in computational intelligence – algorithms, design methodologies, and synthesis techniques – to the design of integrated circuits and systems. It highlights new biasing and sizing approaches and optimization techniques and their application to the design of high-performance digital, VLSI, radio-frequency, and mixed-signal circuits and systems. This first of two related volumes addresses the design of analog and mixed-signal (AMS) and radio-frequency (RF) circuits, with 17 chapters grouped into parts on analog and mixed-signal applications, and radio-frequency design. It will be of interest to practitioners and researchers in computer science and electronics engineering engaged with the design of electronic circuits.

This book constitutes the refereed proceedings of the third International Joint Conference on Ambient Intelligence, Aml 2012, held in Pisa, Italy, in November 2012. The 18 revised full papers and 5 short papers presented were carefully reviewed and selected from 47 (full papers) respectively 14 (short papers) submissions. From a scientific point of view, the papers make a multidisciplinary approach covering fields like computer science, human computer interaction, electrical engineering, industrial design, behavioral sciences, aimed at enriching physical environments with a network of distributed devices, such as sensors, actuators, and computational resources, in order to support users in their everyday activities. From a technological perspective the volume represents the convergence of recent achievements in ubiquitous and communication technologies, pervasive computing, intelligent user interfaces and artificial intelligence.

This book presents a new type of modeling environment where users interact with geospatial simulations using 3D physical models of studied landscapes. Multiple users can alter the physical model by hand during scanning, thereby providing input for simulation of geophysical processes in this setting. The authors have developed innovative techniques and software that couple this hardware with open source GRASS GIS, making the system instantly applicable to a wide range of modeling and design problems. Since no other literature on this topic is available, this Book fills a gap for this new technology that continues to grow. Tangible Modeling with Open Source GIS will appeal to advanced-level students studying geospatial science, computer science and earth science such as landscape architecture and natural resources. It will also benefit researchers and professionals working in geospatial modeling applications, computer graphics, hazard risk management, hydrology, solar energy, coastal and fluvial flooding, fire spread, landscape, park design and computer games.

Over the last two decades, earth modeling has become a major investigative tool for evaluating the potential of hydrocarbon reservoirs. Earth modelling must now face new challenges since petroleum exploration no longer consists in only investigating newly identified resources, but also in re-evaluating the potential of previously investigated reservoirs in the light of new prospecting data and of revised interpretations. Earth models incorporate a variety of different interpretations made on various types of data at successive steps of the modeling process. However, current modeling procedures provide no way to link a range of data and interpretations with a final earth model. For this reason, sharing and exchanging information about the model building process is at

present a major difficulty. Recently, the term “Shared Earth Modeling” has been used for expressing the idea that earth models should be built in such a way that experts and end users can have access, at any time, to all the information incorporated into the model. This information does not only concern the data, but also the knowledge that geoscientists produce by interpreting these data. Accordingly, practical solutions must be studied for operating a knowledge-driven approach of Shared Earth Modeling. This is the goal of this book. This study of earth subsurface modeling is intended for several categories of readers. It concerns in the first place geologists, engineers and managers involved in the study and evaluation of subsurface reservoirs and hydrocarbon exploration. Relying on recent progress in various fields of computer sciences, the authors present innovative solutions for solving the critical issue of knowledge exchange at key steps of the modeling process. This book will also be of interest to researchers in computer science and, more generally, to engineers, researchers and students who wish to apply advanced knowledge-based techniques to complex engineering problems. Contents : Part I. Earth Models. 1. Earth models as subsurface representations. 2. Earth models for underground resource exploration and estimation. 3. Earth models used in petroleum industry: current practice and future challenges. Part II. Knowledge oriented solutions. 4. Knowledge based approach of a data intensive problem: seismic interpretation. 5. Individual surface representations and optimization. 6. Geological surface assemblage. 7. 3D Meshes for structural, stratigraphy and reservoir frameworks. 8. The data extension issue: geological constraints applied in geostatistical processes. Part III. Knowledge formalization. 9. Ontologies and their use for geological knowledge formalization. 10. Ontologies for Interpreting geochronological relationships. 11. Building ontologies for analyzing data expressed in natural language. 12. Ontology-based rock description and interpretation. Part IV. Knowledge management & applications. 13. Ontology integration and management within data intensive engineering systems. 14. Earth modeling using web services. 15. Full scale example of a knowledge-based method for building and managing an earth model. Part V. Conclusion. Appendix. Glossary.

This second volume is a continuation of the successful first volume of this Springer book, and as well as addressing broader topics it puts a particular focus on unmanned aerial vehicles (UAVs) with Robot Operating System (ROS). Consisting of three types of chapters: tutorials, cases studies, and research papers, it provides comprehensive additional material on ROS and the aspects of developing robotics systems, algorithms, frameworks, and applications with ROS. ROS is being increasingly integrated in almost all kinds of robots and is becoming the de-facto standard for developing applications and systems for robotics. Although the research community is actively developing applications with ROS and extending its features, amount of literature references is not representative of the huge amount of work being done. The book includes 19 chapters organized into six parts: Part 1 presents the control of UAVs with ROS, while in Part 2, three chapters deal with control of mobile robots. Part 3 provides recent work toward integrating ROS with Internet, cloud and distributed systems. Part 4 offers five case studies of service robots and field experiments. Part 5 presents signal-processing tools for perception and sensing, and lastly, Part 6 introduces advanced simulation frameworks. The diversity of topics in the book makes it a unique and valuable reference resource for ROS users, researchers, learners and developers.

This book constitutes the refereed proceedings of the First European Conference on Intelligence and Security Informatics, EuroISI 2008, held in Esbjerg, Denmark, in December 2008. The 23 revised full papers and 2 revised poster papers presented were carefully reviewed and selected from 48 submissions. The papers are organized in topical sections on criminal and social network analysis, intelligence analysis and knowledge discovery, Web-based intelligence monitoring and analysis, privacy protection, access control, and digital rights management, malware and intrusion detection, as well as surveillance and crisis management.

This book presents a selection of revised and extended versions of the best papers from the First International Conference on Social Networking and Computational Intelligence (SCI-2018), held in Bhopal, India, from October 5 to 6, 2018. It discusses recent advances in scientific developments and applications in these areas.

[Applied Artificial Intelligence](#)

[Engineering General Intelligence, Part 2](#)

[Proceedings of the 5th International Virtual Conference on Human Interaction and Emerging Technologies, IHiet 2021, August 27–29, 2021 and the 6th IHiet: Future Systems \(IHiet-FS 2021\), October 28–30, 2021, France](#)

[Robot Operating System \(ROS\)](#)

[Security, Privacy, and Anonymity in Computation, Communication, and Storage](#)

[Web-Based Education: Concepts, Methodologies, Tools and Applications](#)

[Wikibook of Health Informatics](#)

[Robotic Intelligence](#)

[Proposta per una Teoria generale dell'intelligence delle fonti aperte](#)

[The Complete Reference](#)

[Progress in Artificial Intelligence](#)

[Shared Earth Modeling](#)

[Machine Learning, Deep Learning and Computational Intelligence for Wireless Communication](#)

[Integration of Constraint Programming, Artificial Intelligence, and Operations Research](#)

This book contains a selection of higher quality and reviewed papers of the 14th Portuguese Conference on Artificial Intelligence, EPIA 2009, held in Aveiro, Portugal, in October 2009. The 55 revised full papers presented were carefully reviewed and selected from a total of 163 submissions. The papers are organized in topical sections on artificial intelligence in transportation and urban mobility (AITUM), artificial life and evolutionary algorithms (ALEA), computational methods in bioinformatics and systems biology (CMBSB), computational logic with applications (COLA), emotional and affective computing (EAC), general artificial intelligence (GAI), intelligent robotics (IROBOT), knowledge discovery and business intelligence (KDBI), multi-agent systems (MASTA) social simulation and modelling (SSM), text mining and application (TEMA) as well as web and network intelligence (WNI).

This is part 1 of the 3-volume set CCIS 1252 until CCIS 1254 that constitutes the refereed proceedings of the 6th International Conference on Artificial Intelligence and Security, ICAIS 2020, which was held in Hohhot, China, in July 2020. The conference was formerly called "International Conference on Cloud Computing and Security" with the acronym ICCCS. The total of 178 full papers and 8 short papers presented in this 3-volume proceedings was carefully reviewed and selected from 1064 submissions.

The papers were organized in topical sections as follows: Part I: artificial intelligence; Part II: artificial intelligence; Internet of things; information security; Part III: information security; big data and cloud computing; information processing.

Decision makers, such as government officials, need to better understand human activity in order to make informed decisions. With the ability to measure and explore geographic space through the use of geospatial intelligence data sources including imagery and mapping data, they are better able to measure factors affecting the human population. As a broad field of study, geospatial research has applications in a variety of fields including military science, environmental science, civil engineering, and space exploration. Geospatial Intelligence: Concepts, Methodologies, Tools, and Applications explores multidisciplinary applications of geographic information systems to describe, assess, and visually depict physical features and to gather data, information, and knowledge regarding human activity. Highlighting a range of topics such as geovisualization, spatial analysis, and landscape mapping, this multi-volume book is ideally designed for data scientists, engineers, government agencies, researchers, and graduate-level students in GIS programs.

This volume aims to provide a reference to the development of robotic intelligence, built upon Semantic Computing, in terms of 'action' to realize the 'context' and 'intention' formulated by Semantics Computing during the 'thinking' or reasoning process. It addresses three core areas:

This book constitutes the refereed proceedings of 4 workshops held at the 14th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations, AIAI 2018, held in Rhodes, Greece, in May 2018. The workshops were the Workshop on Semantics in the Deep: Semantic Analytics for Big Data, SEDSEAL 2018; the Third Workshop on 5G - Putting Intelligence to the Network Edge, 5G-PINE 2018; the 7th Mining Humanistic Data Workshop, MHDW 2018; and the Workshop on Intelligent Cloud and IOT Paradigms in EHealth, HEALTHIOT 2018. The 19 full papers and 5 short papers presented were carefully reviewed and selected from a total of 53 submissions: SEDSEAL accepted 2 full papers out of 5 submissions, 5G-PINE 6 full and one short paper out of 24, MHDW 7 full and 4 short papers out of 15, and HEALTHIOT 4 full papers out of 9. The papers cover topics such as AI in 5G and telecommunications, AI and e-health services, AI in 5G networks, incremental learning, clustering, AI in text mining, visual data analytics, AI in molecular biology, DNA, RNA, proteins, big data analytics, Internet of Things and recommender systems, and AI in biomedical applications.

Implement machine learning and deep learning techniques to perform predictive analytics on real-time IoT data Key Features Discover quick solutions to common problems that you'll face while building smart IoT applications Implement advanced techniques such as computer vision, NLP, and embedded machine learning Build, maintain, and deploy machine learning systems to extract key insights from IoT data Book Description Artificial intelligence (AI) is rapidly finding practical applications across a wide variety of industry verticals, and the Internet of Things (IoT) is one of them. Developers are looking for ways to make IoT devices smarter and to make users' lives easier. With this AI cookbook, you'll be able to implement smart analytics using IoT data to gain insights, predict outcomes, and make informed decisions, along with covering advanced AI techniques that facilitate analytics and learning in

various IoT applications. Using a recipe-based approach, the book will take you through essential processes such as data collection, data analysis, modeling, statistics and monitoring, and deployment. You'll use real-life datasets from smart homes, industrial IoT, and smart devices to train and evaluate simple to complex models and make predictions using trained models. Later chapters will take you through the key challenges faced while implementing machine learning, deep learning, and other AI techniques, such as natural language processing (NLP), computer vision, and embedded machine learning for building smart IoT systems. In addition to this, you'll learn how to deploy models and improve their performance with ease. By the end of this book, you'll be able to package and deploy end-to-end AI apps and apply best practice solutions to common IoT problems. What you will learn

- Explore various AI techniques to build smart IoT solutions from scratch
- Use machine learning and deep learning techniques to build smart voice recognition and facial detection systems
- Gain insights into IoT data using algorithms and implement them in projects
- Perform anomaly detection for time series data and other types of IoT data
- Implement embedded systems learning techniques for machine learning on small devices
- Apply pre-trained machine learning models to an edge device
- Deploy machine learning models to web apps and mobile using TensorFlow.js and Java

Who this book is for If you're an IoT practitioner looking to incorporate AI techniques to build smart IoT solutions without having to trawl through a lot of AI theory, this AI IoT book is for you. Data scientists and AI developers who want to build IoT-focused AI solutions will also find this book useful. Knowledge of the Python programming language and basic IoT concepts is required to grasp the concepts covered in this artificial intelligence book more effectively.

"This book is the best source for the most current, relevant, cutting edge research in the field of industrial informatics focusing on different methodologies of information technologies to enhance industrial fabrication, intelligence, and manufacturing processes"--Provided by publisher.

[15th International Conference, CPAIOR 2018, Delft, The Netherlands, June 26-29, 2018, Proceedings](#)

[Vietato lasciare le fonti aperte](#)

[14th Portuguese Conference on Artificial Intelligence, EPIA 2009, Aveiro, Portugal, October 12-15, 2009, Proceedings](#)

[Information Systems and Technology for Organizational Agility, Intelligence, and Resilience](#)

[Computational Intelligence in Analog and Mixed-Signal \(AMS\) and Radio-Frequency \(RF\) Circuit Design](#)

[Artificial Intelligence for IoT Cookbook](#)

[Open Source Data Warehousing and Business Intelligence Concepts, Methodologies, Tools, and Applications](#)

[Ambient Intelligence](#)

[Tangible Modeling with Open Source GIS](#)

[Modern Approaches in Applied Intelligence](#)

[Agents and Artificial Intelligence](#)

[6th International Conference, ICAIS 2020, Hohhot, China, July 17-20, 2020, Proceedings, Part I](#)

Collaboration, Fusion and Emergence

Open Source Data Warehousing and Business Intelligence is an all-in-one reference for developing open source based data warehousing (DW) and business intelligence (BI) solutions that are business-centric, cross-customer viable, cross-functional, cross-technology based, and enterprise-wide. Considering the entire lifecycle of an open source DW & BI implementation, its comprehensive coverage spans from basic concepts all the way through to customization. Highlighting the key differences between open source and vendor DW and BI technologies, the book identifies end-to-end solutions that are scalable, high performance, and stable. It illustrates the practical aspects of implementing and using open source DW and BI technologies to supply you with valuable on-the-project experience that can help you improve implementation and productivity. Emphasizing analysis, design, and programming, the text explains best-fit solutions as well as how to maximize ROI. Coverage includes data warehouse design, real-time processing, data integration, presentation services, and real-time reporting. With a focus on real-world applications, the author devotes an entire section to powerful implementation best practices that can help you build customer confidence while saving valuable time, effort, and resources.

Knowledge of scientific and technological developments, and the flexible communication and decision making, knowledge sharing, and collaboration that stem from them, can enable organizations and individuals to be successful and viable competitors in today's global economy. Information Systems and Technology for Organizational Agility, Intelligence, and Resilience aims to advise and support organizational agents who want ensure success in terms of financial, social, and environmental aspects, as well as in the aspect of human development, in a more sustainable way. The premier reference work provides examples of conceptual research, methodologies, empirical cases, and success cases for academics, researchers, intermediaries, and organizations looking to use information systems and technology to boost their agility, intelligence, and resilience.

This book constitutes the refereed proceedings of the 11th International Conference on Security, Privacy, and Anonymity in Computation, Communication, and Storage. The 45 revised full papers were carefully reviewed and selected from 120

submissions. The papers cover many dimensions including security algorithms and architectures, privacy-aware policies, regulations and techniques, anonymous computation and communication, encompassing fundamental theoretical approaches, practical experimental projects, and commercial application systems for computation, communication and storage.

The work outlines a detailed blueprint for the creation of an Artificial General Intelligence system with capability at the human level and ultimately beyond, according to the Cog Prime AGI design and the Open Cog software architecture. The aim of the book is to provide latest research findings, innovative research results, methods and development techniques from both theoretical and practical perspectives related to the emerging areas of Web Computing, Intelligent Systems and Internet Computing. As the Web has become a major source of information, techniques and methodologies that extract quality information are of paramount importance for many Web and Internet applications. Data mining and knowledge discovery play key roles in many of today's prominent Web applications such as e-commerce and computer security. Moreover, the outcome of Web services delivers a new platform for enabling service-oriented systems. The emergence of large scale distributed computing paradigms, such as Cloud Computing and Mobile Computing Systems, has opened many opportunities for collaboration services, which are at the core of any Information System. Artificial Intelligence (AI) is an area of computer science that build intelligent systems and algorithms that work and react like humans. The AI techniques and computational intelligence are powerful tools for learning, adaptation, reasoning and planning. They have the potential to become enabling technologies for the future intelligent networks. Recent research in the field of intelligent systems, robotics, neuroscience, artificial intelligence and cognitive sciences are very important for the future development and innovation of Web and Internet applications.

Like sysadmins before them, network engineers are finding that they cannot do their work manually anymore. As the field faces new protocols, technologies, delivery models, and a pressing need for businesses to be more agile and flexible, network automation is becoming essential. This practical guide shows network engineers how to use a range

of technologies and tools—including Linux, Python, JSON, and XML—to automate their systems through code. Network programming and automation will help you simplify tasks involved in configuring, managing, and operating network equipment, topologies, services, and connectivity. Through the course of the book, you'll learn the basic skills and tools you need to make this critical transition. This book covers: Python programming basics: data types, conditionals, loops, functions, classes, and modules Linux fundamentals to provide the foundation you need on your network automation journey Data formats and models: JSON, XML, YAML, and YANG for networking Jinja templating and its applicability for creating network device configurations The role of application programming interfaces (APIs) in network automation Source control with Git to manage code changes during the automation process How Ansible, Salt, and StackStorm open source automation tools can be used to automate network devices Key tools and technologies required for a Continuous Integration (CI) pipeline in network operations

"This comprehensive collection offers a compendium of research on the design, implementation, and evaluation of online learning technologies, addressing the challenges and opportunities associated with the creation and management of Web-based applications and communities, instructional design, personalized learning environments, and effective educational delivery"--Provided by publisher.

[The CogPrime Architecture for Integrative, Embodied AGI 7th International Conference, UIC 2010, Xi'an, China, October 26-29, 2010, Proceedings](#)

[Open source intelligence abstraction layer](#)

[Neural networks and deep learning with Python and TensorFlow Concepts, Methodologies, Tools and Applications](#)

[Mathematical-Statistical Models and Qualitative Theories for Economic and Social Sciences](#)

[Artificial Intelligence Applications and Innovations European Conference, EuroISI 2008, Esbjerg, Denmark, December 3-5, 2008. Proceedings](#)

[AIAI 2018 IFIP WG 12.5 International Workshops, SEDSEAL, 5G-PINE, MHDW, and HEALTHIOT, Rhodes, Greece, May 25-27, 2018, Proceedings](#)

[Skills for the Next-Generation Network Engineer](#)

[Security Engineering and Intelligence Informatics](#)

[First International Conference on Sustainable Technologies for Computational Intelligence](#)

[Proceedings of the Workshops of the 33rd International Conference on Advanced Information Networking and Applications \(WAINA-2019\)](#)

[Handbook of Research on Industrial Informatics and Manufacturing Intelligence: Innovations and Solutions](#)

Open Source Intelligence Abstraction Layer è probabilmente il primo tentativo italiano di formalizzazione del corpus di conoscenze sulle quali si fonda - o sarebbe corretto si fondasse - l'Intelligence delle Fonti Aperte (OSINT). Troppo spesso l'OSINT è considerata alla stregua di una mera tecnica (o tecnologia) destinata alla realizzazione, attraverso la rete Internet, di prodotti mediatici e di reporting. L'OSINT invece può (e deve) essere una disciplina analitica nel senso pieno del termine, dotata di un proprio sistema di teorie, metodi, sistemi e prassi che come tale merita di trovare una più precisa collocazione all'interno degli intelligence studies. La speranza è che la comunità di intelligence italiana voglia e riesca ad avviare un ampio confronto su questi argomenti, coinvolgendo tutte le discipline che dimostrino di poter contribuire alla definizione di una Teoria Generale dell'Intelligence delle Fonti Aperte coerente e condivisa.

This book gathers high-quality papers presented at the First International Conference on Sustainable Technologies for Computational Intelligence (ICTSCI 2019), which was organized by Sri Balaji College of Engineering and Technology, Jaipur, Rajasthan, India, on March 29–30, 2019. It covers emerging topics in computational intelligence and effective strategies for its implementation in engineering applications.

This book is about synergy in computational intelligence (CI). It is a collection of chapters that covers a rich and diverse variety of computer-based techniques, all involving some aspect of computational intelligence, but each one taking a somewhat pragmatic view. Many complex problems in the real world require the application of some form of what we loosely call “intelligence” for their solution. Few can be solved by the naive application of a single technique, however good it is. Authors in this collection recognize the limitations of individual paradigms, and propose some practical and novel ways in which different CI techniques can be combined with each other, or with more traditional computational techniques, to produce powerful problem-solving environments which exhibit synergy, i. e. , systems in which the whole is greater than the sum of the parts . Computational intelligence is a relatively new term, and there is some disagreement as to its precise definition. Some practitioners limit its scope to schemes involving evolutionary algorithms, neural networks, fuzzy logic, or hybrids of these. For others, the definition is a little more flexible, and will include paradigms such as Bayesian belief networks, multi-agent systems, case-based reasoning and so on. Generally, the term has a similar meaning to the well-known phrase “Artificial Intelligence” (AI), although CI is perceived more as a “bottom up” approach from

which intelligent behaviour can emerge, whereas Altendstobestudied from the “topdown”, and derive from pondering upon the “meaning of intelligence”. (These and other key issues will be discussed in more detail in Chapter 1.

Ubiquitous sensors, devices, networks and information are paving the way toward a smart world in which computational intelligence is distributed throughout the physical environment to provide reliable and relevant services to people. This ubiquitous intelligence will change the computing landscape because it will enable new breeds of applications and systems to be developed, and the realm of computing possibilities will be significantly extended. By enhancing everyday objects with intelligence, many tasks and processes could be simplified, the physical spaces where people interact, like workplaces and homes, could become more efficient, safer and more enjoyable. Ubiquitous computing, or pervasive computing, uses these many “smart things” or “u-things” to create smart environments, services and applications. A smart thing can be endowed with different levels of intelligence, and may be c- text-aware, active, interactive, reactive, proactive, assistive, adaptive, automated, sentient, perceptual, cognitive, autonomic and/or thinking. Research on ubiquitous intelligence is an emerging research field covering many disciplines. A series of grand challenges exists to move from the current level of computing services to the smart world of adaptive and intelligent services. Started in 2005, the series of UIC conferences has been held in Taipei, Nagasaki, Three Gorges (China), Hong Kong, Oslo and Brisbane. The proceedings contain the papers presented at the 7th International Conference on Ubiquitous Intelligence and Computing (UIC 2010), held in Xi’an, China, October 26–29, 2010. The conference was accompanied by six vibrant workshops on a variety of research challenges within the area of ubiquitous intelligence and computing.

This book presents a broad spectrum of problems related to statistics, mathematics, teaching, social science, and economics as well as a range of tools and techniques that can be used to solve these problems. It is the result of a scientific collaboration between experts in the field of economic and social systems from the University of Defence in Brno (Czech Republic), G. d’Annunzio University of Chieti-Pescara (Italy), Pablo de Olavid eUniversity of Sevilla (Spain), and Ovidius University in Constan?a, (Romania). The studies included were selected using a peer-review process and reflect heterogeneity and complexity of economic and social phenomena. They and present interesting empirical research from around the globe and from several research fields, such as statistics, decision making, mathematics, complexity, psychology, sociology and economics. The volume is divided into two parts. The first part, “Recent trends in mathematical and statistical models for economic and social sciences”, collects papers on quantitative matters, which propose mathematical and statistical models for social sciences, economics, finance, and business administration. The second part, “Recent trends in qualitative theories for

economic and social sciences”, includes papers on qualitative matters, which discuss social, economic, and teaching issues. It is an ideal reference work for all those researchers interested in recent quantitative and qualitative tools. Covering a wide range of topics, it appeals in equal measure to mathematicians, statisticians, sociologists, philosophers, and specialists in the fields of communication, social and political sciences.

Intelligence and autonomy are among the most extraordinary capacities blossomed by human evolution. Yet, endowing humanoid robots with these two crucial capabilities is still one of the biggest problems for the robotics community, despite decades of research. On the software side, algorithms for artificial intelligence are still at an embryonic stage. On the hardware side, robotic actuators are a far cry from the muscular human system in terms of flexibility and adaptability, which in turn reduces autonomy and robustness. Underneath the nature of algorithms for intelligence and technology for autonomy, the importance of efficient, scalable implementations of robust software goes without saying. Among the large variety of humanoid robots, the iCub has emerged as one of the most diffused research platforms. It has been developed as part of the RobotCub EU project and subsequently adopted by more than 35 laboratories worldwide. Collaborations across laboratories are encouraged by writing code and libraries openly available. As a consequence, iCub is considered to be the ideal platform for experimenting and advancing open-source software for research in several domains, ranging from motor control to cognitive systems.

Open Source Intelligence Abstraction Layer è probabilmente il primo tentativo italiano di formalizzazione del corpus di conoscenze sulle quali si fonda – o sarebbe corretto si fondasse – l’Intelligence delle Fonti Aperte (OSINT). Troppo spesso l’OSINT è considerata alla stregua di una mera tecnica (o tecnologia) destinata alla realizzazione, attraverso la rete Internet, di prodotti mediatici e di reporting. L’OSINT invece può (e deve) essere una disciplina analitica nel senso pieno del termine, dotata di un proprio sistema di teorie, metodi, sistemi e prassi che come tale merita di trovare una più precisa collocazione all’interno degli intelligence studies. La speranza è che la comunità di intelligence italiana voglia e riesca ad avviare un ampio confronto su questi argomenti, coinvolgendo tutte le discipline che dimostrino di poter contribuire alla definizione di una Teoria Generale dell’Intelligence delle Fonti Aperte coerente e condivisa.

[Geospatial Intelligence: Concepts, Methodologies, Tools, and Applications](#)
[24th International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE 2011, Syracuse, NY, USA, June 28 - July 1, 2011, Proceedings](#)

[Building the iCub Mindware: Open-source Software for Robot Intelligence and Autonomy](#)

[Ubiquitous Intelligence and Computing](#)

[Proceedings of SCI-2018](#)

[Human Interaction, Emerging Technologies and Future Systems V](#)

[Intelligence and Security Informatics](#)

[Computational Intelligence](#)

[Artificial Intelligence and Security](#)

[8th International Conference, ICAART 2016, Rome, Italy, February 24-26, 2016,](#)

[Revised Selected Papers](#)

[CD-ARES 2013 Workshops: MoCrySEn and SeCIHD, Regensburg, Germany,](#)

[September 2-6, 2013, Proceedings](#)

[Social Networking and Computational Intelligence](#)

[Knowledge Driven Solutions for Building and Managing Subsurface 3D](#)

[Geological Models](#)

[Proceedings of MDCWC 2020](#)

This book constitutes the proceedings of the 15th International Conference on Integration of Artificial Intelligence and Operations Research Techniques in Constraint Programming for Combinatorial Optimization Problems, CPAIOR 2018, held in Delft, The Netherlands, in June 2018. The 47 full papers presented together with 3 abstracts of invited talks and 3 abstracts of fast-track journal papers were carefully reviewed and selected from 111 submissions. The conference brings together interested researchers from constraint programming, artificial intelligence, and operations research to present new techniques or applications in the intersection of these fields and provides an opportunity for researchers in one area to learn about techniques in the others, and to show how the integration of techniques from different fields can lead to interesting results on large and complex problems.

This volume constitutes the refereed proceedings of two workshops: the Second International Workshop on Modern Cryptography and Security Engineering (MoCrySEn 2013) and the Third International Workshop on Security and Cognitive Informatics for Homeland Defense (SeCIHD 2013) held within the framework of the IFIP 8.4, 8.9, TC 5 International Cross-Domain Conference, CD-ARES 2013, in Regensburg, Germany, in September 2013. The 16 revised papers presented at MoCrySEn 2013 were carefully reviewed and selected from 30 submissions. They deal with symmetric-key cryptography, public-key cryptography, algorithmic cryptanalysis, software and hardware implementation of cryptographic algorithms, database encryption, and interaction between cryptographic theory and implementation issues. The 15 papers presented at SeCIHD 2013 are organized in topical sections on cyber security and dependability, network security and privacy, and multimedia technology for homeland defense.

This book is a collection of best selected research papers presented at the Conference on Machine Learning, Deep Learning and Computational Intelligence for Wireless Communication (MDCWC 2020) held during October 22nd to 24th 2020, at the Department of Electronics and Communication Engineering, National Institute of Technology Tiruchirappalli, India. The presented papers are grouped under the following topics (a) Machine Learning, Deep learning and Computational intelligence algorithms (b) Wireless communication systems and (c) Mobile data applications and are included in the book. The topics include the latest research and results in the areas of network prediction, traffic classification, call detail record mining, mobile health care, mobile pattern recognition, natural language processing, automatic speech processing, mobility analysis, indoor localization, wireless sensor networks (WSN), energy minimization, routing, scheduling,

resource allocation, multiple access, power control, malware detection, cyber security, flooding attacks detection, mobile apps sniffing, MIMO detection, signal detection in MIMO-OFDM, modulation recognition, channel estimation, MIMO nonlinear equalization, super-resolution channel and direction-of-arrival estimation. The book is a rich reference material for academia and industry.

This book is focused on the use of deep learning (DL) and artificial intelligence (AI) as tools to advance the fields of malware detection and analysis. The individual chapters of the book deal with a wide variety of state-of-the-art AI and DL techniques, which are applied to a number of challenging malware-related problems. DL and AI based approaches to malware detection and analysis are largely data driven and hence minimal expert domain knowledge of malware is needed. This book fills a gap between the emerging fields of DL/AI and malware analysis. It covers a broad range of modern and practical DL and AI techniques, including frameworks and development tools enabling the audience to innovate with cutting-edge research advancements in a multitude of malware (and closely related) use cases.

This book contains revised and extended versions of selected papers from the 8th International Conference on Agents and Artificial Intelligence, ICAART 2016, held in Rome, Italy, in February 2016. The 17 revised full papers were carefully reviewed and selected from 149 initial submissions. The papers are organized in two sections: agents and artificial intelligence. They address open research trends and highlight in an innovative manner the trends in intelligent multi-agent systems, natural language processing, and knowledge representation.

The two volume set LNAI 6703 and LNAI 6704 constitutes the thoroughly refereed conference proceedings of the 24th International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE 2011, held in Syracuse, NY, USA, in June/July 2011. The total of 92 papers selected for the proceedings were carefully reviewed and selected from 206 submissions. The papers cover a wide number of topics including feature extraction, discretization, clustering, classification, diagnosis, data refinement, neural networks, genetic algorithms, learning classifier systems, Bayesian and probabilistic methods, image processing, robotics, navigation, optimization, scheduling, routing, game theory and agents, cognition, emotion, and beliefs.

Caro lettore, ad accomunarci è la curiosità, l'interesse e la passione per una disciplina che a noi sembra bella e del tutto particolare: l'intelligence delle fonti aperte. In qualità di esperto di dominio ti sarà capitato almeno di aver dovuto rispondere alla domanda da dodici milioni e mezzo di dollari: "Di cosa ti occupi?". Se la risposta è affermativa, allora ti sarà familiare quella strana sensazione a metà tra la frustrazione e il fastidio fisico che ti pervade dopo che, con una prolusione di quasi tredici minuti al meglio delle tue capacità logiche, dialettiche, di sintesi e persuasione, arricchita di richiami concettuali, aneddoti esplicativi e riferimenti pratici e il tuo interlocutore se ne esce con un imbarazzatissimo ...e sarebbe? Purtroppo, questa situazione si potrebbe presentare in qualsiasi momento della tua vita. Nel mio caso, in un viaggio in treno. Magari è la prima bella giornata di primavera e te ne stai tranquillamente per i fatti tuoi, seduto sulla tua poltrona in prima classe. Viaggi quasi alla velocità della luce e il paesaggio fuori dal finestrino è il tuo salvaschermo personale ad altissima definizione. Impossibile non notare il do not disturb attaccato alla maniglia esterna della tua individualità. Tutto procede bene finora. Ma potrebbe anche capitare che... P.S. È severamente vietato lasciare le fonti aperte

[11th International Conference and Satellite Workshops, SpaCCS 2018, Melbourne, NSW, Australia, December 11-13, 2018, Proceedings](#)

[Third International Joint Conference, Aml 2012, Pisa, Italy, November 13-15, 2012, Proceedings](#)

[Web, Artificial Intelligence and Network Applications](#)

[Malware Analysis Using Artificial Intelligence and Deep Learning](#)

[Innovations and Solutions](#)

[Informationweek](#)

[Over 70 recipes for building AI solutions for smart homes, industrial IoT, and smart cities](#)

[Open source intelligence abstraction layer. Proposta per una teoria generale dell'intelligence delle fonti aperte](#)

[Network Programmability and Automation](#)

[Proceedings of ICTSCI 2019](#)