Gartner Hype Cycle For Cloud Computing 2010 Insight

Nowadays number of competitive and recruitment examinations test the writing ability of the aspirants by including a descriptive English section in the exam. The Descriptive English section covers essay and passage writing to evaluate the effective writing skills of the aspirants. The present book contains ample number of modern essays which are or may be asked in a number of competitive & recruitment examinations. The present book on Modern Essays has been divided into ten sections namely Current Affairs, Society & Social Issues, Economy & Infrastructure, Education, Science & Technology, Great Personalities, Constructive Writing: General Topics, Environment, Ecology & Climate, Famous Proverbs & Sayings and Miscellaneous. The Current Affairs section covers Mars Orbiter Mission (MOM), Make in India: Mission to Glory, Ebola, Kailash Satyarthi, etc whereas the Society & Social Issues contains Social Evils, Curse of Dowry System, Female Foeticide, Drug Abuse, Generation Gap, Corruption in India, Population Explosion, Poverty in India, etc. The Economy & Infrastructure section covers Agriculture in India, An Indian Farmer, Mineral Wealth of India, Banking in India, Economic Reforms, Indian Economy, Globalisation, etc whereas the Education section covers Right to Education (RTE), Vocational Education, Sex Education in School, etc. The Science & Technology section has been divided into Internet Boon, India: A Software Super Power, Blossoming of Social Media, Health Advancements, A Flat on Moon, Cloning, etc. whereas the Great Personalities section covers Ashoka the Great, Nelson Mandela, Sir CV Raman, Kalpana Chawla, Abraham Lincoln, Helen Keller, MS Dhoni, Milkha Singh, Mary Kom, etc. The Constructive Writing section has been divided into Independence Day, My Childhood Memories, My Favorite Games, On the Top of the World, The Role of Indian Cinema, My Favourite Author, etc whereas the Environment, Ecology & Climate covers Forests of India, Wildlife of India, The Fury of Floods, Climate Change, Green Revolution, Tiger Conservation, Earthquake: A Natural Calamity, etc. The Famous Proverbs & Sayings section covers A Thing of Beauty if a Joy Forever, All that Glitters is Not Gold, Boys Prefer Sports, Girls Prefer Clothes, Look Before You Leap, Sweet are the Uses of Adversity, Small is Beautiful, etc whereas the Miscellaneous section covers Indian Railways: In Need of Revival, Meditation: The Ultimate Nirvana, Online Shopping, Delhi Metro, Photography, Information Media, Right to Information (RTI), etc. As the book contains ample number of sample essays of varied variety, it for sure will prove to be beneficial for essay writing for school students and for different competitive examinations.

The paradigm shift in the field of education focuses on the development of life skills, attitudes and values. This was the prime focus which made us divide this series into two themes: LIFE SKILLS and ATTITUDES & VALUES. Each theme strongly voices out in three levels - beginners, the avid readers and the experts making it a six book series. The book "Breathing in Bodhi - the General Awareness/ Comprehension book - Life Skills/ Level 3 for the experts" is the third of the three books based on the Life Skills theme. • The book contains 30 fascinating stories about People, Places, Events, Ideas and Issues. The stories are further based on Life Skills - 10 each on Thinking, Social and Emotional Skills. • The book aims at enhancing the comprehension skills along with augmenting the general awareness of children leading to the development of the precious Life Skills. • The book is an honest attempt to trigger the young minds to think, explore and relate to the world around them. It makes them THINK, COMPREHEND AND ANALYZE. The articles given for the comprehension purpose are actually in sync to the real world. • Each story has been elaborately discussed and is analysed by the following tools: • Wordsmith - aims at developing the vocabulary and contextual usage of words. • Finding the Fact - aims at developing the comprehension

skills • Extra Inning - gives an opportunity to the reader to explore the extra information related to the story. • Reality Check - a platform to create opinions about the various issues related to the story. • Only when the reader is in a position to generate thoughts/ opinions about a given situation/ issue then only he is in a position to provide a real solution model. • This series is a must have for people who not only want to build in their reading habit and develop their vocabulary but also want to enroot an eye for comprehending, analyzing and transforming their approach from problem finders towards becoming PROBLEM SOLVERS by reinforcing the power of Life Skills.

Cloud computing is widely recognised as a mean for bringing cost savings and better utilisation of resources to the IT departments and their limited budgets. Cloud computing, where IT is delivered as an on-demand pay-per-use service, is rapidly evolving from a hype to a serious alternative to traditional IT procurement. This development is vastly driven by big international players. If the Nordic region is to influence and gain from this development it is essential that the Nordic governments act now. This report sets the scene for a common understanding of the notion of cloud computing across the Nordic region. The report offers a list of recommendations for key action points where cooperation across the Nordic region will be beneficial in order to establish the Nordic region as a driving force for cloud computing in the public sector.

Every year, the Hasso Plattner Institute (HPI) invites guests from industry and academia to a collaborative scientific workshop on the topic “Operating the Cloud”. Our goal is to provide a forum for the exchange of knowledge and experience between industry and academia. Hence, HPI’s Future SOC Lab is the adequate environment to host this event which is also supported by BITKOM. On the occasion of this workshop we called for submissions of research papers and practitioner’s reports. ”Operating the Cloud” aims to be a platform for productive discussions of innovative ideas, visions, and upcoming technologies in the field of cloud operation and administration. In this workshop proceedings the results of the third HPI cloud symposium ”Operating the Cloud” 2015 are published. We thank the authors for exciting presentations and insights into their current work and research. Moreover, we look forward to more interesting submissions for the upcoming symposium in 2016.

Many companies claim to have "gone to the cloud," yet returns from their efforts are meager or worse. Why? Because they've defined cloud as a destination, not a capability. Using cloud as a single-vendor, one-stop destination is fiction; in practice, today's organizations use a mosaic of capabilities across several vendors. Your cloud strategy needs to follow a hybrid multicloud model, one that delivers cloud's value at destinations you choose. This practical guide provides business leaders and C-level executives with guidance and insights across a wide range of cloud-related topics, such as distributed cloud, microservices, and other open source solutions for strengthening operations. You'll apply in-the-field best practices and lessons learned as you define your hybrid cloud strategy and drive your company's transformation strategy. Learn cloud fundamentals and patterns, including basic concepts and history Get a framework for cloud acumen phases to value-plot your cloud future Know which questions to ask a cloud provider before you sign Discover potential pitfalls for everything from the true cost of a cloud solution to adopting open source the right way

This document brings together a set of latest data points and publicly available information relevant for Hybrid Cloud Infrastructure. We are very excited to share this content and believe that readers will benefit immensely from this periodic publication immensely.

Digital Asset Valuation and Cyber Risk Measurement: Principles of Cybernomics is a book about the future of risk and the future of value. It examines the indispensable role of economic modelling in the future of digitization, thus providing industry professionals with the tools they need to optimize the management of financial risks associated with this mega trend. The book addresses three problem areas: the valuation of digital assets, measurement of risk exposures of digital valuables, and economic modelling for the management of such risks. Employing a

pair of novel cyber risk measurement units, bitmort and hekla, the book covers areas of value, risk, control and return, each of which are viewed from the perspective of entity (e.g., individual, organisation, business), portfolio (e.g., industry sector, nation-state) and global ramifications. Establishing adequate, holistic and statistically robust data points on the entity, portfolio and global levels for the development of a cybernomics databank is essential for the resilience of our shared digital future. This book also argues existing economic value theories no longer apply to the digital era due to the unique characteristics of digital assets. It introduces six laws of digital theory of value, with the aim to adapt economic value theories to the digital and machine era. Comprehensive literature review on existing digital asset valuation models, cyber risk management methods, security control frameworks, and economics of information security Discusses the implication of classical economic theories under the context of digitization, as well as the impact of rapid digitization on the future of value Analyses the fundamental attributes and measurable characteristics of digital assets as economic goods Discusses the scope and measurement of digital economy Highlights cutting-edge risk measurement practices regarding cyber security risk management Introduces novel concepts, models and theories, including opportunity value, Digital Valuation Model, six laws of digital theory of value, Cyber Risk Quadrant, and most importantly, cyber risk measures hekla and bitmort Introduces cybernomics, i.e., the integration of cyber risk management and economics to study the requirements of a databank in order to improve risk analytics solutions for 1) the valuation of digital assets, 2) the measurement of risk exposure of digital assets, and 3) the capital optimisation for managing residual cyber risk Provides a case study on cyber insurance
Modern businesses depend on data for their very survival, creating a need for sophisticated databases and database technologies to help store, organise and transport their valuable data. This updated and expanded, easy-to-read textbook/reference presents a comprehensive introduction to databases, opening with a concise history of databases and of data as an organisational asset. As relational database management systems are no longer the only database solution, the book takes a wider view of database technology, encompassing big data, NoSQL, object and object-relational, and in-memory databases. Presenting both theoretical and practical elements, the new edition also examines the issues of scalability, availability, performance and security encountered when building and running a database in the real world. Topics and features: Presents review and discussion questions at the end of each chapter, in addition to skill-building, hands-on exercises Provides new material on database adaptiveness, integration, and efficiency in relation to data growth Introduces a range of commercial databases and encourages the reader to experiment with these in an associated learning environment Reviews use of a variety of databases in business environments, including numerous examples Discusses areas for further research within this fast-moving domain With its learning-by-doing approach, supported by both theoretical and practical examples, this clearly-structured textbook will be of great value to advanced undergraduate and postgraduate students of computer science, software engineering, and information technology. Practising database professionals and application developers will also find the book an ideal reference that addresses today's business needs. Konstantinos Domdouzis is senior lecturer in the Communication and Computing Research Centre at Sheffield Hallam University, UK. Peter Lake (now retired) was formerly course leader for the Oracle IT&M MSc and the IT Professional MSc at Sheffield Hallam University. Paul Crowther (now retired) was formerly head of postgraduatetaught programmes in the Faculty of Arts, Computing, Engineering and Sciences at Sheffield Hallam University.
This easy-to-read textbook/reference presents a comprehensive introduction to databases, opening with a concise history of databases and of data as an organisational asset. As relational database management systems are no longer the only database solution, the book takes a wider view of database technology, encompassing big data, NoSQL, object and object-relational and in-memory databases. The text also

examines the issues of scalability, availability, performance and security encountered when building and running a database in the real world. Topics and features: presents review and discussion questions at the end of each chapter, in addition to skill-building, hands-on exercises; introduces the fundamental concepts and technologies in database systems, placing these in an historic context; describes the challenges faced by database professionals; reviews the use of a variety of database types in business environments; discusses areas for further research within this fast-moving domain.

Cloud computing as the name indicates is derived from the concept of Internet. Before and by 2000, Internet is referred as Cloud. When ever you have to show internet in an illustration, you will show it as a cloud. As internet is connection of computers & further you cant see internet as an entity, its depicted as cloud. Today, cloud is in a state of where it is because of a beginning sometime, somewhere. An effort which was started as simplifying tasks in terms of computing power is now in a phase of sharing the technology to derive optimization & business value. Lets go over the evolution of cloud starting from ENIAC & ARPANET in this short book.

The two-volume set LNCS 10271 and 10272 constitutes the refereed proceedings of the 19th International Conference on Human-Computer Interaction, HCII 2017, held in Vancouver, BC, Canada, in July 2017. The total of 1228 papers presented at the 15 colocated HCII 2017 conferences was carefully reviewed and selected from 4340 submissions. The papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. They cover the entire field of Human-Computer Interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The papers included in this volume cover the following topics: games in HCI; mobile and wearable interaction; HCI, children and learning; and HCI in complex human environments.

Continuous improvements in data analysis and cloud computing have allowed more opportunities to develop systems with user-focused designs. This not only leads to higher success in day-to-day usage, but it increases the overall probability of technology adoption. Advancing Cloud Database Systems and Capacity Planning With Dynamic Applications is a key resource on the latest innovations in cloud database systems and their impact on the daily lives of people in modern society. Highlighting multidisciplinary studies on information storage and retrieval, big data architectures, and artificial intelligence, this publication is an ideal reference source for academicians, researchers, scientists, advanced level students, technology developers and IT officials.

In a fast changing global economy governed by Enterprise Services and the Future Internet, enterprises and virtual factories will self-organize in distributed, interoperable, innovation Ecosystems where the issues of Enterprise Interoperability need to be solved in a multi-view of information, services and processes throughout Enterprise Networks. The book constitutes the proceedings of five workshops co- located with the Fifth IFIP Working Conference IWEI 2013. It contains the presented peer reviewed papers and summaries of the workshop discussions. Complementing the IWEI Conference program, the workshops aimed at exploiting new issues, challenges and solutions for Enterprise Interoperability and Manufacturing Eco Systems. The scope of the workshops spanned over a range of interoperability issues in Service Science and innovation, Model Driven Service Engineering Architectures, Service Modelling Languages, reference ontology for manufacturing , Case studies and tools particularly for SMEs, Business – IT alignment and related Standardization. Contents 1 – Model Driven Services Engineering Architecture (MDSEA): A Result of MSEE Project An Architecture for Service Modelling in Servitization Context: MDSEA, Y. Ducq. A Set of Templates for MDSEA, D. Chen. 2 – Interoperability to Support Business–IT Alignment Report Workshop 2, I.-S. Fan, V. Taratoukhine, M. Matzner. Interoperability as a Catalyst for Business Innovation, J.H.P. Eloff, M.M. Eloff, M.T. Dlamini, E. Ngassam,

D. Ras. Process-Oriented Business Modeling – An Application in the Printing Industry, A. Malsbender, K. Ortbach, R. Plattfaut, M. Voigt, B. Niehaves. A Comparative Study of Modelling Methodologies Using a Concept of Process Consistency, E. Babkin, E. Potapova, Y. Zelenova. Maintenance Support throughout the Life-Cycle of High Value Manufacturing Products. Interoperability Issues, A. Fedotova, V. Taratoukhine, Y. Kupriyanov. Using Enterprise Architecture to Align Business Intelligence Initiatives, I.-S. Fan, S. Warner. Towards Enterprise Architecture Using Solution Architecture Models, V. Agievich, R. Gimranov, V. Taratoukhine, J. Becker. 3 – Standardisation for Interoperability in the Service-Oriented Enterprise Report Workshop 3, M. Zelm, D. Chen. Standardisation in Manufacturing Service Engineering, M. Zelm, G. Doumeingts. Service Modelling Language and Potentials for a New Standard, D. Chen. An Approach to Standardise a Service Life Cycle Management, M. Freitag, D. Kremer, M. Hirsch, M. Zelm. Open Business Model, Process and Service Innovation with VDML and ServiceML, A. J. Berre, H. De Man, Y. Lew, B. Elvesæter, B.M. Ursin-Holm. Reference Ontologies for Manufacturing, R. Young, N. Hastilow, M. Imran, N. Chungoora, Z. Usman, A.-F. Cutting-Decelle. Standardisation Tools for Negotiating Interoperability Solutions, T. Santos, C. Coutinho, A. Cretan, M. Beca, R. Jardim-Goncalves. 4 – Case Studies on Enterprise Interoperability: How IT Managers Profit from EI Research Report Workshop 4, S. Kassel. Experiences of Transferring Approaches of Interoperability into SMEs, F. Gruner, S. Kassel. 5 – Selected New Applications of Enterprise Interoperability . 179 Report Workshop 5, L. Ferreira Pires, P. Johnson. Service-Oriented Enterprise Interoperability in Logistics, W. Hofman. An Ontological Approach to Logistics, L. Daniele, L. Ferreira Pires. Social Vision of Collaboration of Organizations on a Cloud Platform, A. Montarnal, W. Mu, F. Bénaben, A.-M. Barthe-Delanoë, J. Lamothe. Semantic Standards Quality Measured for Achieving Enterprise Interoperability: The Case of the SETU Standard for Flexible Staffing, E. Folmer, H. Wu. Requirements Formalization for Systems Engineering: An Approach for Interoperability Analysis in Collaborative Process Model, S. Mallek, N. Daclin, V. Chapurlat, B. Vallespir.

CEO's Guide to Cloud Computing

The broad scope of Cloud Computing is creating a technology, business, sociolo- cal, and economic renaissance. It delivers the promise of making services available quickly with rather little effort. Cloud Computing allows almost anyone, anywhere, at anytime to interact with these service offerings. Cloud Computing creates a unique opportunity for its users that allows anyone with an idea to have a chance to deliver it to a mass market base. As Cloud Computing continues to evolve and penetrate different industries, it is inevitable that the scope and definition of Cloud Computing becomes very subjective, based on providers' and customers' persp- tive of applications. For instance, Information Technology (IT) professionals p- ceive a Cloud as an unlimited, on-demand, flexible computing fabric that is always available to support their needs. Cloud users experience Cloud services as virtual, off-premise applications provided by Cloud service providers. To an end user, a p- vider offering a set of services or applications in the Cloud can manage these off- ings remotely. Despite these discrepancies, there is a general consensus that Cloud Computing includes technology that uses the Internet and collaborated servers to integrate data, applications, and computing resources. With proper Cloud access, such technology allows consumers and businesses to access their personal files on any computer without having to install special tools. Cloud Computing facilitates efficient operations and management of comp- ing technologies by federating storage, memory, processing, and bandwidth.

The definitive guide to successfully integrating social, mobile, Big-Data analytics, cloud and IoT principles and technologies The main goal of this book is to spur the development of effective big-data computing operations on smart clouds that are fully supported by IoT sensing, machine learning and analytics systems. To that end, the authors draw upon their original research and proven track record in the field to

describe a practical approach integrating big-data theories, cloud design principles, Internet of Things (IoT) sensing, machine learning, data analytics and Hadoop and Spark programming. Part 1 focuses on data science, the roles of clouds and IoT devices and frameworks for big-data computing. Big data analytics and cognitive machine learning, as well as cloud architecture, IoT and cognitive systems are explored, and mobile cloud-IoT-interaction frameworks are illustrated with concrete system design examples. Part 2 is devoted to the principles of and algorithms for machine learning, data analytics and deep learning in big data applications. Part 3 concentrates on cloud programming software libraries from MapReduce to Hadoop, Spark and TensorFlow and describes business, educational, healthcare and social media applications for those tools. The first book describing a practical approach to integrating social, mobile, analytics, cloud and IoT (SMACT) principles and technologies Covers theory and computing techniques and technologies, making it suitable for use in both computer science and electrical engineering programs Offers an extremely well-informed vision of future intelligent and cognitive computing environments integrating SMACT technologies Fully illustrated throughout with examples, figures and approximately 150 problems to support and reinforce learning Features a companion website with an instructor manual and PowerPoint slides www.wiley.com/go/hwangIOT Big-Data Analytics for Cloud, IoT and Cognitive Computing satisfies the demand among university faculty and students for cutting-edge information on emerging intelligent and cognitive computing systems and technologies. Professionals working in data science, cloud computing and IoT applications will also find this book to be an extremely useful working resource.

The Why, What, and How of enterprise cloud adoption--a clear framework and proven best practices from Microsoft's own experience "Great book. What's particularly impressive is the outline of steps Microsoft itself is taking in its move to the cloud. Do as I do is always more powerful than do as I say." -- Al Ries, Co-author, War in the Boardroom "This book takes on enterprise cloud adoption to a level I've not seen before--made even more elegant with its structured framework and crisp approach." -- Anthony D. Christie, CMO, Level 3 Communications, Former CTO/CIO, Global Crossing "A practical and timely guide that covers the entire journey to the cloud from an enterprise perspective including business, technology, and organizational impact." -- Bart Luijten, CIO Corporate Functions & Corporate Technology, Philips "To the Cloud is recommended reading for any CXO who wants to understand the cloud--what it means, what it can do for their business, and more importantly, how to implement it in their organization. The authors have done an excellent job clearly explaining a complex topic, which will surely help this book's readers readily embrace the many benefits the cloud can provide." -- Jean-Philippe Courtois, President, Microsoft International "The cloud powers business solutions for building tomorrow's enterprise and this book offers a simple, well-structured, and high-level process map for cloud adoption."-- Kris Gopalakrishnan, Executive Co-Chairman, Infosys Limited "To the Cloud is a boon for CEOs evaluating the information technology needs of an organization. The easy-to-understand tone, tables, charts, and visuals allows non-techies to grasp concepts and decide how the cloud can benefit an organization--going a long way in helping a CEO decipher the language of the CIO!" -- Rajesh Dalal, Former CEO, Johnson & Johnson Medical India "To the Cloud is a practical and timely primer, clarifying the concepts and many paths to the cloud. The cloud will elevate IT to a new plane--one which is transformational and plug-and-play--and the authors paint a vision of how it can help realize long-elusive IT productivity gains. Simply put, To the Cloud brings cloud computing down to earth." -- Ravi Kastia, Global Head, Aditya Birla Group Cloud computing is full of tremendous opportunity, but is also riddled with hype and confusion. Business and technology leaders know the cloud is essential, but they lack clarity and experience. To the Cloud cuts through the noise and addresses the Why, What, and How of enterprise cloud adoption. This unique guide lays out a four-step framework, leveraging the experience and best practices of Microsoft’s own IT group. The book delivers end-to-end business and technology guidance, describing how

to analyze application portfolios to identify good cloud candidates, choose the right cloud models, consider architecture and security, and understand how shifting operations to the cloud affects budgeting and staffing. Applicable to all cloud platforms and providers, this practical resource debunks myths, revealing that real clouds are more than just web hosting, virtualization, or the Internet itself rebranded. It takes a balanced approach, addressing concerns and hybrid adoption scenarios alike. Based on the authors' proven expertise working for Microsoft's CIO on cloud migration and with cloud platform development teams, the book is supported by clear frameworks, graphics, tables, summaries, and checklists to provide a true practitioner's guide to the cloud. To the Cloud helps you: Explore cloud computing to understand its promise and challenges Envision how cloud computing can transform your organization Enable your organization with the necessary resources and skills Execute the design, development, and operation of cloud workloads To the Cloud is essential for IT professionals seeking to lower total cost of ownership, improve the return on IT investment of existing services, and help the business bring new products to market more quickly.

The first textbook to teach students how to build data analytic solutions on large data sets using cloud-based technologies. This is the first textbook to teach students how to build data analytic solutions on large data sets (specifically in Internet of Things applications) using cloud-based technologies for data storage, transmission and mashup, and AI techniques to analyze this data. This textbook is designed to train college students to master modern cloud computing systems in operating principles, architecture design, machine learning algorithms, programming models and software tools for big data mining, analytics, and cognitive applications. The book will be suitable for use in one-semester computer science or electrical engineering courses on cloud computing, machine learning, cloud programming, cognitive computing, or big data science. The book will also be very useful as a reference for professionals who want to work in cloud computing and data science. Cloud and Cognitive Computing begins with two introductory chapters on fundamentals of cloud computing, data science, and adaptive computing that lay the foundation for the rest of the book. Subsequent chapters cover topics including cloud architecture, mashup services, virtual machines, Docker containers, mobile clouds, IoT and AI, inter-cloud mashups, and cloud performance and benchmarks, with a focus on Google's Brain Project, DeepMind, and X-Lab programs, IBKai HwangM SyNapse, Bluemix programs, cognitive initiatives, and neurocomputers. The book then covers machine learning algorithms and cloud programming software tools and application development, applying the tools in machine learning, social media, deep learning, and cognitive applications. All cloud systems are illustrated with big data and cognitive application examples.

This book provides a holistic picture of the digital age as it emerges in the 2010s. On the background of business analysis concepts from firm to megatrends and all business sectors of the World, the digital age of information systems and digital drivers are thoroughly laid out.

The commercial exploitation of distributed computing technologies is slowly starting to become popular under the general area of cloud computing. These solutions allow selling and buying of resources (i.e., computing, network, software, and data resources) on demand. Existing solutions in this area are diverse, ranging from Infrastructure-- a-Service (IaaS) models via Platform-as-a-Service (PaaS) to Software-as-a-Service (SaaS) models. Although the economics of these services is not yet fully understood and the interoperability between such services is still lacking, a common market for computing services is slowly developing. Such a market would allow buyers and sellers of computing services to trade their excess capacity or make available their capacity at a cost. However, it is still not p- sible for a market participant to act as a resource provider or seller, or trade based on the current level of demand. Another example of a developing open market is the emergence of Web2.0-based services. These enable consumers to create new services by aggregating services from multiple

providers. The benefit of these solutions is that “value” can be created by combining services at different prices.
Seminar paper from the year 2016 in the subject Business economics - Business Management, Corporate Governance, grade: 1,3, University of Applied Sciences Essen, course: Strategic Management, language: English, abstract: The aim of this term paper is to outline the opportunities and risks connected with the introduction of cloud systems. In addition to the strategic aspect the term paper will evaluate the economic aspect of cloud strategies by examining how to adapt the Total Cost of Ownership (TCO) method to suit cloud services. The first chapters of this paper will present the underlying relationships between Industry 4.0, Internet of Things (IoT), Smart Production and the underlying technology stack behind, followed by an overview of the cloud solutions available as of today. This paper then evaluates the strategic potential of cloud strategies before finally providing a valuation model to deal with the challenge of ascertaining the economic potential of cloud solutions. The first objective of the term paper work is to evaluate the potential of a cloud strategy based on SWOT analysis. The second key question is how to adapt and extend information technology typical commercial valuation models to a cloud strategy based business case.
CLOUD AND IOT-BASED VEHICULAR AD HOC NETWORKS This book details the architecture behind smart cars being fitted and connected with vehicular cloud computing, IoT and VANET as part of the intelligent transport system (ITS). As technology continues to weave itself more tightly into everyday life, socioeconomic development has become intricately tied to ever-evolving innovations. An example of this is the technology being developed to address the massive increase in the number of vehicles on the road, which has resulted in more traffic congestion and road accidents. This challenge is being addressed by developing new technologies to optimize traffic management operations. This book describes the state-of-the-art of the recent developments of Internet of Things (IoT) and cloud computing-based concepts that have been introduced to improve Vehicular Ad-Hoc Networks (VANET) with advanced cellular networks such as 5G networks and vehicular cloud concepts. 5G cellular networks provide consistent, faster and more reliable connections within the vehicular mobile nodes. By 2030, 5G networks will deliver the virtual reality content in VANET which will support vehicle navigation with real time communications capabilities, improving road safety and enhanced passenger comfort. In particular, the reader will learn: A range of new concepts in VANETs, integration with cloud computing and IoT, emerging wireless networking and computing models New VANET architecture, technology gap, business opportunities, future applications, worldwide applicability, challenges and drawbacks Details of the significance of 5G Networks in VANET, vehicular cloud computing, edge (fog) computing based on VANET. Audience The book will be widely used by researchers, automotive industry engineers, technology developers, system architects, IT specialists, policymakers and students.
Most of competitive exams test a candidate’s writing skills with the inclusion of Descriptive Questions in the form of separate test(s). These tests are mainly aimed at checking how well a student is aware of his/ her surroundings and how well he/ she can express the same. Clarity of thought is what is required to crack these exams. The Descriptive Questions cover Essay Writing, Article Writing, Making Arguments in favour or against and Opinion Expression to evaluate the aspirant’s writing ability. 121 Essays by Disha (2nd thoroughly Revised & Updated Edition) has been designed for the aspirants of UPSC Mains, various State PSCs, and other competitive exams like MBA, Bank PO etc.. The book emphasises on the importance of a cogently written essay and the art of essay writing. The book has a special coverage of India as most of competitive exams these days ask rather deeply in respect of issues pertaining to their own country. With this approach, 121 Essays aims to provide a complete roadmap for aspirants aiming to maximize their scores in such Descriptive Questions. The book contains 121 essays of varied variety covering topics of Current Affairs, Social Issues, Environment, Politics, Education, Economy, Science & Technology,

International Affairs, Personalities, Sports, etc. All the essays in the book provide sufficient information and data thus providing an insight into the crux of the issues stimulating the thinking ability of the students. 121 Essays has been structured such that it incorporates all the latest and important fascinating topics pertaining to India and the world presented in a classical style. Each essay is a model essay both in respect of language and matter and has fast-flowing facts narrated in a simple and lucid language. The book for sure will prove highly beneficial to students in their academic pursuits and to those preparing for various competitive exams.

This book contains the refereed proceedings of the 4th International Conference on Software Business (ICSOB) held in Potsdam, Germany, in June 2013. The theme of the event was "From Physical Products to Software Services and Solutions." The 15 full papers, seven short papers, and six doctoral symposium papers accepted for ICSOB were selected from 44 submissions and are organized in sections on: software business models and business process modeling; IT markets and software industry; IT within organizations; software product management; cloud computing; entrepreneurship and startup companies; software platforms and software ecosystems; and doctoral symposium.

Innovations in cloud and service-oriented architectures continue to attract attention by offering interesting opportunities for research in scientific communities. Although advancements such as computational power, storage, networking, and infrastructure have aided in making major progress in the implementation and realization of cloud-based systems, there are still significant concerns that need to be taken into account. Principles, Methodologies, and Service-Oriented Approaches for Cloud Computing aims to present insight into Cloud principles, examine associated methods and technologies, and investigate the use of service-oriented computing technologies. In addressing supporting infrastructure of the Cloud, including associated challenges and pressing issues, this reference source aims to present researchers, engineers, and IT professionals with various approaches in Cloud computing.

Effective communication requires a common language, a truth that applies to science and mathematics as much as it does to culture and conversation. Standards and Standardization: Concepts, Methodologies, Tools, and Applications addresses the necessity of a common system of measurement in all technical communications and endeavors, in addition to the need for common rules and guidelines for regulating such enterprises. This multivolume reference will be of practical and theoretical significance to researchers, scientists, engineers, teachers, and students in a wide array of disciplines.

With the constant stream of emails, social networks, and online bank accounts, technology has become a pervasive part of our everyday lives, making the security of these information systems an essential requirement for both users and service providers. Architectures and Protocols for Secure Information Technology Infrastructures investigates different protocols and architectures that can be used to design, create, and develop security infrastructures by highlighting recent advances, trends, and contributions to the building blocks for solving security issues. This book is essential for researchers, engineers, and professionals interested in exploring recent advances in ICT security.

The growth of Internet use and technologies has increased exponentially within the business sector. When utilized properly, these applications can enhance business functions and make them easier to perform. Exploring the Convergence of Big Data and the

Internet of Things is a pivotal reference source featuring the latest empirical research on the business use of computing devices to send and receive data in conjunction with analytic applications to reduce maintenance costs, avoid equipment failures, and improve business operations. Including research on a broad range of topics such as supply chain, aquaculture, and speech recognition systems, this book is ideally designed for researchers, academicians, and practitioners seeking current research on various technology uses in business.

The distributed computing infrastructure known as ‘the Grid’ has undoubtedly been one of the most successful science-oriented large- scale IT projects of the past 20 years. It is now a fully operational international entity, encompassing several hundred computing sites on all continents and giving access to hundreds of thousands of CPU (central processing unit) cores and hundreds of petabytes of storage, all connected by robust national and international scientific networks. It has evolved to become the main computational platform many scientific communities. This book presents lectures from the Enrico Fermi International School of Physics summer school Grid and Cloud computing: Concepts and Practical Applications, held in Varenna, Italy, in July 2014. The school aimed to cover the conceptual and practical aspects of both the Grid and Cloud computing. The proceedings included here are divided into eight chapters, with chapters 1, 2, 3 and 8 covering general applications of Grid and Cloud computing in various scientific fields, while chapters 4, 5, 6 and 7 discuss specific technical areas of Grid and Cloud structures. The book will be of interest to all those whose work involves the use of the Grid or Cloud computing.

This book concludes a trilogy that began with Intelligent Cities: Innovation, Knowledge Systems and digital spaces (Routledge 2002) and Intelligent Cities and Globalisation of Innovation Networks (Routledge 2008). Together these books examine intelligent cities as environments of innovation and collaborative problem-solving. In this final book, the focus is on planning, strategy and governance of intelligent cities. Divided into three parts, each section elaborates upon complementary aspects of intelligent city strategy and planning. Part I is about the drivers and architectures of the spatial intelligence of cities, while Part II turns to planning processes and discusses top-down and bottom-up planning for intelligent cities. Cities such as Amsterdam, Manchester, Stockholm and Helsinki are examples of cities that have used bottom-up planning through the gradual implementation of successive initiatives for regeneration. On the other hand, Living PlanIT, Neapolis in Cyprus, and Saudi Arabia intelligent cities have started with the top-down approach, setting up urban operating systems and common central platforms. Part III focuses on intelligent city strategies; how cities should manage the drivers of spatial intelligence, create smart environments, mobilise communities, and offer new solutions to address city problems. Main findings of the book are related to a series of models which capture fundamental aspects of intelligent cities making and operation. These models consider structure, function, planning, strategies toward intelligent environments and a model of governance based on mobilisation of communities, knowledge architectures, and innovation cycles.

Cloud computing has quickly become the next big step in security development for companies and institutions all over the world. With the technology changing so rapidly, it is important that businesses carefully consider the available advancements and

opportunities before implementing cloud computing in their organizations. The Handbook of Research on Security Considerations in Cloud Computing brings together discussion on current approaches to cloud-based technologies and assesses the possibilities for future advancements in this field. Highlighting the need for consumers to understand the unique nature of cloud-delivered security and to evaluate the different aspects of this service to verify if it will meet their needs, this book is an essential reference source for researchers, scholars, postgraduate students, and developers of cloud security systems.

The current work provides CIOs, software architects, project managers, developers, and cloud strategy initiatives with a set of architectural patterns that offer nuggets of advice on how to achieve common cloud computing-related goals. The cloud computing patterns capture knowledge and experience in an abstract format that is independent of concrete vendor products. Readers are provided with a toolbox to structure cloud computing strategies and design cloud application architectures. By using this book cloud-native applications can be implemented and best suited cloud vendors and tooling for individual usage scenarios can be selected. The cloud computing patterns offer a unique blend of academic knowledge and practical experience due to the mix of authors. Academic knowledge is brought in by Christoph Fehling and Professor Dr. Frank Leymann who work on cloud research at the University of Stuttgart. Practical experience in building cloud applications, selecting cloud vendors, and designing enterprise architecture as a cloud customer is brought in by Dr. Ralph Retter who works as an IT architect at T?Systems, Walter Schupeck, who works as a Technology Manager in the field of Enterprise Architecture at Daimler AG,and Peter Arbitter, the former head of T Systems' cloud architecture and IT portfolio team and now working for Microsoft. Voices on Cloud Computing Patterns Cloud computing is especially beneficial for large companies such as Daimler AG. Prerequisite is a thorough analysis of its impact on the existing applications and the IT architectures. During our collaborative research with the University of Stuttgart, we identified a vendor-neutral and structured approach to describe properties of cloud offerings and requirements on cloud environments. The resulting Cloud Computing Patterns have profoundly impacted our corporate IT strategy regarding the adoption of cloud computing. They help our architects, project managers and developers in the refinement of architectural guidelines and communicate requirements to our integration partners and software suppliers. Dr. Michael Gorriz – CIO Daimler AG Ever since 2005 T-Systems has provided a flexible and reliable cloud platform with its "Dynamic Services". Today these cloud services cover a huge variety of corporate applications, especially enterprise resource planning, business intelligence, video, voice communication, collaboration, messaging and mobility services. The book was written by senior cloud pioneers sharing their technology foresight combining essential information and practical experiences. This valuable compilation helps both practitioners and clients to really understand which new types of services are readily available, how they really work and importantly how to benefit from the cloud. Dr. Marcus Hacke – Senior Vice President, T-Systems International GmbH This book provides a conceptual framework and very timely guidance for people and organizations building applications for the cloud. Patterns are a proven approach to building robust and sustainable applications and systems. The authors adapt and extend it to cloud computing, drawing on their own experience and deep contributions to the field. Each pattern includes an extensive discussion of the state of

the art, with implementation considerations and practical examples that the reader can apply to their own projects. By capturing our collective knowledge about building good cloud applications and by providing a format to integrate new insights, this book provides an important tool not just for individual practitioners and teams, but for the cloud computing community at large. Kristof Kloeckner – General Manager,Rational Software, IBMSoftware Group

In today’s world where technology impacts every aspect of life, you need to know how to evaluate devices, choose apps, maintain a professional online reputation, and ensure digital security. NEW PERSPECTIVES ON COMPUTER CONCEPTS 2018, COMPREHENSIVE offers the insights to help. This book goes beyond the intuitive how-to of apps and social media to delve into broad concepts that are guiding current technologies such as self-driving cars, virtual reality, file sharing torrents, encrypted communications, photo forensics, and the Internet of Things. Numerous illustrations and interactive features make mastering technical topics a breeze, while the book’s proven learning path is structured with today's busy reader in mind. This edition offers an insightful overview of what today’s readers must know about using technology to complete an education, secure a successful career, and engage in issues that shape today's world. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

IAS is one of the most sought after career these days. For an aspirant to be successful in this exam, he must have a thorough knowledge of India - social, political, economical, geographical, international climate. Students need to start well in advance such that they not only attain the fundamental knowledge but also gain the ability to generate their opinion and ideas about a topic. The IAS Foundation Book is an attempt in the same direction. Undergraduate Students and class 11/ 12 students who aspire for this career can start with this book. The book provides 175+ articles from diverse areas like History, Geography of the World , Polity Governance, Constitution, Social Justice, International relations, Technology, Economic Development, Bio diversity, Environment, Security, Disaster Management, Ethics, Integrity and Aptitude. These articles not just provide you the complete update on the topic but will also guide you to analyse and explore the various issues associated with it. The articles are followed by exercises constituting vocabulary questions, comprehension questions, related general awareness questions and opinion creation/ analytical questions. The book provides answers to the 1st three type of questions. The opinion creation/ analytical questions are open-ended and requires a lot of thinking and analysis before answering. It is one of the most powerful book that will expose you to the most sensitive issues, ideas, events, people or places.

Cloud computing has experienced explosive growth and is expected to continue to rise in popularity as new services and applications become available. As with any new technology, security issues continue to be a concern, and developing

effective methods to protect sensitive information and data on the cloud is imperative. Cloud Security: Concepts, Methodologies, Tools, and Applications explores the difficulties and challenges of securing user data and information on cloud platforms. It also examines the current approaches to cloud-based technologies and assesses the possibilities for future advancements in this field. Highlighting a range of topics such as cloud forensics, information privacy, and standardization and security in the cloud, this multi-volume book is ideally designed for IT specialists, web designers, computer engineers, software developers, academicians, researchers, and graduate-level students interested in cloud computing concepts and security.

The recent explosion of digital media, online networking, and e-commerce has generated great new opportunities for those Internet-savvy individuals who see potential in new technologies and can turn those possibilities into reality. It is vital for such forward-thinking innovators to stay abreast of all the latest technologies. Web-Based Services: Concepts, Methodologies, Tools, and Applications provides readers with comprehensive coverage of some of the latest tools and technologies in the digital industry. The chapters in this multi-volume book describe a diverse range of applications and methodologies made possible in a world connected by the global network, providing researchers, computer scientists, web developers, and digital experts with the latest knowledge and developments in Internet technologies.

In the 2010s, new technological and business trends threaten, or promise, to disrupt multiple industries to such a degree that we might be moving into a new and fourth industrial revolution. The background and content of these new developments are laid out in the book from a holistic perspective. Based on an outline of the nature and developments of the market economy, business, global business industries and IT, the new technological and business trends are thoroughly dealt with, including issues such as internet, mobile, cloud, big data, internet of things, 3D-printing, the sharing economy, social media, gamification, and the way they transform industries and businesses