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Contains directories of federal agencies that promote mathematics and science education at elementary and secondary levels; organized in sections by agency name, national program name, and state

highlights by region. The 2016 International Conference on Computer Science, Technology and Application (CSTA2016) were held in Changsha, China on March 18–20, 2016. The main objective of the joint conference is to provide a platform for researchers, academics and industrial professionals to present their research findings in the fields of computer science and technology. The CSTA2016 received more than 150 submissions, but only 67 articles were selected to be included in this proceedings, which are organized into 6 chapters; covering Image and Signal Processing, Computer Network, Algorithm and Simulation, Data Mining and Cloud Computing, Computer Systems and Application, Mathematics and Management.

Contents: Image and Signal Processing
Computer Network and Information Security
Algorithm and Simulation
Data Mining and Cloud Computing
Computer System and Application
Mathematics and Management

Readership: Researchers and professionals in computer networks & signal processing.

Vehicular traffic congestion and accidents

remain universal issues in today's world. Due to the continued growth in the use of vehicles, optimizing traffic management operations is an immense challenge. To reduce the number of traffic accidents, improve the performance of transportation systems, enhance road safety, and protect the environment, vehicular ad-hoc networks have been introduced. Current developments in wireless communication, computing paradigms, big data, and cloud computing enable the enhancement of these networks, equipped with wireless communication capabilities and high-performance processing tools. Cloud-Based Big Data Analytics in Vehicular Ad-Hoc Networks is a pivotal reference source that provides vital research on cloud and data analytic applications in intelligent transportation systems. While highlighting topics such as location routing, accident detection, and data warehousing, this publication addresses future challenges in vehicular ad-hoc networks and presents viable solutions. This book is ideally designed for researchers, computer scientists, engineers, automobile industry

professionals, IT practitioners, academicians, and students seeking current research on cloud computing models in vehicular networks. Part of a four-volume set, this book constitutes the refereed proceedings of the 7th International Conference on Computational Science, ICCS 2007, held in Beijing, China in May 2007. The papers cover a large volume of topics in computational science and related areas, from multiscale physics to wireless networks, and from graph theory to tools for program development. Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better. Basic Electric Circuits, Second Edition details the underlying principle that governs the electric-circuit theory. The title provides problems and worked examples that supplement the discussion of applications of the ideas. The text first deals with conducting and insulating materials, and

then proceeds to talking about semiconductor junction devices. Next, the selection covers resistance, capacitance, and inductance, along with different kinds of circuitry. The title also discusses graphical methods, symbolic method of analysis, and elementary transmission-line analysis. The book will be of great use to students of electrical engineering. The text will also serve as a reference material for professional engineers. With contributions from leading researchers in the nanomedicine field from industry, academia, and government and private research institutions across the globe, the volume provides an up-to-date report on topical issues in nano-drug delivery and nanotechnological approaches to tissue engineering. The volume offers research on a variety of diverse nano-based drug delivery systems along with discussions of their efficacy, safety, toxicology, and applications for different purposes. Focusing on nanotechnology approaches to tissue engineering, this volume considers the use of hydrogel systems, nanoceramics and micro- and nano-structured biomaterials

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Identifies and describes specific government assistance opportunities such as loans, grants, counseling, and procurement contracts available under many agencies and programs. Two large international conferences on Advances in Engineering Sciences were held in Hong Kong, March 13-15, 2013, under the International MultiConference of Engineers and Computer Scientists (IMECS 2013), and in London, U.K., 3-5 July, 2013, under the World Congress on Engineering 2013 (WCE 2013) respectively. IMECS 2013 and WCE 2013 were organize Completely revised and updated, Encyclopedia of Environmental Science and Engineering, Fifth Edition spans the entire spectrum of environmental science and engineering. Still the most comprehensive, authoritative reference available in this field, the monumental two-volume encyclopedia has expanded to include 87 articles on topics ranging from acid This document presents the transcript of a congressional hearing to consider the American Math and Science Student Support

Act, H.R. 4595. The legislation is designed to address the issue of attracting a greater proportion of U.S. citizens to graduate study in science, mathematics, and engineering. The hearings include testimony and prepared statements from witnesses who have been asked to comment on the possible effects of the bill on increasing the participation of U.S. citizens in such graduate study. Witnesses include Dr. Jules LaPidus, President, Council of Graduate Schools, representing the Association of American Universities, Washington, D.C.; Dr. Frank Morris, Dean of Graduate Studies, Morgan State University, Baltimore, Maryland, and President, Council of Historically Black Graduate Schools; Dr. William Powers, Provost, Michigan Technological University, Houghton, Michigan; Dr. Stanford Penner, Professor of Applied Mechanics and Engineering Sciences, University of California, San Diego, California, and Chairman of the National Academy of Sciences Committee on the International Exchange and Movement of Engineers. Appendices include: Dr. Morris'

address to the plenary session of the Council of Graduate Schools on Dec. 5, 1991; a letter from J. P. Densler to P. Henry; a statement from NAFSA Association of International Educators; and a statement from the National Association of State Universities and Land-Grant Colleges. (MDH) This book presents the latest achievements of separation science and technology. It highlights the application of separation with regard to problems of current interest, such as the protection of the environment and the development of emerging technology, including chemical engineering, biotechnology, renewable energy sources and recycling of materials. "This comprehensive reference work provides immediate, fingertip access to state-of-the-art technology in nearly 700 self-contained articles written by over 900 international authorities. Each article in the Encyclopedia features current developments and trends in computers, software, vendors, and applications...extensive bibliographies of leading figures in the field, such as

Samuel Alexander, John von Neumann, and Norbert Wiener...and in-depth analysis of future directions. Fuzzy technology has emerged as one of the most exciting new concepts available. Fuzzy Logic and its Applications... covers a wide range of the theory and applications of fuzzy logic and related systems, including industrial applications of fuzzy technology, implementing human intelligence in machines and systems. There are four main themes: intelligent systems, engineering, mathematical foundations, and information sciences. Both academics and the technical community will learn how and why fuzzy logic is appreciated in the conceptual, design and manufacturing stages of intelligent systems, gaining an improved understanding of the basic science and the foundations of human reasoning. In this companion text to Analog Circuit Design: Art, Science, and Personalities, seventeen contributors present more tutorial, historical, and editorial viewpoints on subjects related to analog circuit design. By presenting divergent methods and views of people who have achieved some measure

of success in their field, the book encourages readers to develop their own approach to design. In addition, the essays and anecdotes give some constructive guidance in areas not usually covered in engineering courses, such as marketing and career development.

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