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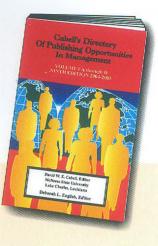
Plot No 6, Sector 25, Rohini, Delhi 110085 Tel.: 011-27932742, 27934011, 27934400, Fax : 011-27934200, Email: dias@dias.ac.in, diasedu@vsnl.com



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# DIAS Technology Review

# The International Journal for Business & IT

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#### ARTICLES

#### 10 Managing Interruptions

- Dr. Andrew Sikula, Sr. & Dr. John Sikula The most critical issue in overall management is time. Today's managers are required to provide information round the clock. They are interrupted to supply information, data and knowledge. The article discusses various types of such interruptions and methods to deal with it giving optimum productivity.
- 18 Psychoacoustic Model Based Audio Data Compression Technique : An Approach using DWT and VQ
- Dr. Jyoti Singhai, Mr. Rakesh Singhai & Dr. R.P. Singh

Audio compression is required to provide cost effective storage, minimize transmission cost and improve channel capacity. Using Vector Quantization (VQ) and employing optimal wave length based coding scheme, the paper proposes a compression algorithm that reduces redundancies, thus saving storage and processing time complexities.

- 28 Internet-Based Secure Monitoring and Control for Utility Companies and Process Plants
- Prof. James H. Graham & Mr. Sandip C. Patel

The SCADA system is remotely controlled distributed network of sensor and switches and finds wide application in measurement and control of industrial system. The paper discusses an Internet based SCADA system where current process information can be acquired and control data can be sent to a remote plant using web browser securely.

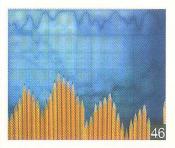
#### 34 Corporate Social Responsibility: Indian Context

#### Mr. Kalyan Kumar De & Dr. S.K. Tayal

Corporate's image just as a profit-earning unit, responsible to its shareholders' only has gone for a makeover. Today, it is playing a role and having a voice in all social, political and economical agenda. Society has definitely benefited by support and development provided by some of the companies. The article highlights this progress and the relationship of Indian corporates with Government Bodies and NGOs.











#### APRIL - SEPTEMBER 2006

#### 46 Dividend Policy of NSE and BSE Firms: Impact of Profitability, Size and Growth on Dividend Distribution.

Dr. Sanjeev Mittal & Ms. Monika Chopra Dividend decisions play a major role in deciding the maximization of shareholders' wealth. This paper studies dividend trends for past five years and comes out with a positive relationship between dividend paid and profitability, growth and size of firms.

#### 56 Wal-Mart Prepares to Enter Indian Retail Sector : Strategic Implications

- **Dr. P. Raj Devasagayam** With the liberalization of Indian market, Wal-Mart is entering the Indian retail sector. The paper traces the history of Wal-Mart and growth of retail sector in India and the challenges that will be faced by Wal-Mart's business in Indian retail sector.
- 64 Non-linear Blind Source Separation Using Cross Power Spectral Density & Cross Correlation.
- Mrs. Sangeeta Nakhate, Dr. R. P. Singh & Dr. A. Somkuwar

Acoustic signals, especially speech mixes in the unknown non-linear process instantaneously. Based on storing the statistics independence of source signal this paper presents Blind Source Separation Algorithm which enables the extraction of target speech from observed mixed speech analysis. The paper synthesizes BSS Algorithm on Field Programmable Gate Array (FPGA) and gives performance comparison between the proposed and ICA related FPGA implementations.

#### **BOOK REVIEWS**

- Cost and Management Accounting Ms. Upasana Diwan
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From The Editor's Desk

It gives me immense pleasure to present the fifth issue of DIAS Technology Review as with this issue DTR has entered its third year of publication. A seed has turned into sapling indeed.

World has undergone immense changes from being an agrarian society to an industrial society and then leapfrogging to information age. Each era had it's own requirement of knowledge base. Slowly but steadily globalization has built up- not around any country or company but around individuals. It has changed the competitive settings of all the countries.

In order to maintain the competitive edge it is required to use the existing knowledge and generate new knowledge that could be used in development of new strategies to face the challenges. Globalization has transformed the entire economy to knowledge-based economy and the society to knowledge society. This 'knowledge society' driven by innovation is continuously converting knowledge into wealth for the betterment of the society.

An innovative and highly inspired workforce is the need of the hour. Fortunately this is the best time for young men and women to enter the workforce. IT and Management students all around the world have got the best salaries and the highest pay hikes. There is no dearth of opportunities in both the fields across the globe. This is a good indication of growth of economy and living standards of people.

However, there is a distressing side of this seemingly bright picture that indicates severe shortage of people with right skills and knowledge. The weak link in the entire structure is education. The supply is much less than the demand. Thus quality Management education and IT training are becoming all the more essential to face innumerable, intricate changes. Education should have the potential of creating tremendous value for the individual, developing organizational skills and competencies and turning them not only as managers but also as social emancipators.

As suggested by Indian President Dr. A.P.J. Abdul Kalam, every nation should develop an efficient innovation system that creates a cluster which are networks of: (a) inter-dependent firms, (b) technology and knowledge producing Institutions like universities, colleges, research Institutes and technology providing firms, (c) Institutions like think-tank, providers of technical or consulting services, and (d) customers linking the value added production chain. The managers & technocrats of today must also contribute to above networks through their research and propagate new ideas & theories, thus improving management practices.

Every issue of DIAS Technology Review seeks to contribute to the research fields pertaining to management and IT. The articles in the present issue encompass a wide range of topics.

In the management section the article "Managing Interruptions" describes why the unexpected work that flows in the form of intrusions, social gossip and emergencies must be minimized whereas affirmative expected interruptions must be encouraged.

"Corporate Social Responsibility: Indian Context" deliberates upon the role of corporates in social upliftment in Indian context along with their relationship with Government Bodies and NGO's. The article "Dividend Policy of NSE and BSE Firms: Impact of Profitability, Size and Growth on Dividend Distribution" studies the trends for past five years and comes out with a relationship between dividend paid and profitability, growth and size of the company.

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We hope the articles incorporated in the present issue will make an interesting and informative reading for our esteemed readers.

In order to have continuous interaction with our readers, we are introducing a new column "Letters To Editor" where they can share their views and information related to the articles.

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**Tripti Mishra** Editor



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## **ABOUT THE CONTRIBUTORS**

#### Dr. Andrew Sikula Sr.

Dr. Andrew Sikula, Sr. is Director of the West Virginia Marshall University Graduate School of Management, Associate Dean of the Elizabeth McDowell Lewis College of Business, and distinguished Professor of Management and Business Ethics. He formerly served as Business School Dean at California State University, Northridge; at California State University, Chigo; and, at Chicago State University. He was also Associate Dean of the College of Business and Public Affairs at Murray State University in Kentucky. Dr. Sikula has an M.B.A. and a Ph.D. in Management from Michigan State University. Dr. Sikula has spent 44 years in higher education having split his time almost equally between full-time teaching and business school administrative work.

#### Email: sikula@marshall.edu

#### Dr. John Sikula

Dr. John Sikula is Associate Provost for Graduate, Regional and Outreach Programme and Dean of the Graduate School at Ashland University in Ashland, Ohio where he has served as Dean of the College of Education. Previously, he has served as an Education Dean at California State University, Long Beach; at National University; and, at Indiana University, Northwest. John Sikula has a Ph.D. from Case Western Reserve University in Cleveland, Ohio. Dr. John Sikula has won many teaching and research awards and has served as the President of various State and National Educational Associations. John Sikula has served as a consultant to schools, universities, professional associations, and education-related groups in around 50 states and 24 countries.

#### Email: jsikula@ashland.edu

#### Dr. Jyoti Singhai

Dr. Jyoti Singhai is Assistant Professor in Electronics Department in Maulana Azad National Institute of Technology (MANIT) since 2004. She joined MANIT as lecturer in 1994. She did her BE in Electronics Engineering in 1991, M.Tech. in Digital Communication in 1997 and PhD in 2005 from MANIT, Bhopal. She has received "Young Scientist Award" from M.P Council of Science and Technology, Government of M.P. for the year 2002-03. She has published over 33 papers in various National and International conferences. She has supervised 13 UG Major projects and 6 M.Tech. projects.

#### Email: j\_singhai@rediffmail.com

#### Mr. Rakesh Singhai

Mr. Rakesh Singhai is Reader in Department of Electronics and Communication Engineering, University Institute of Technology, Rajiv Gandhi Prodyogiki Vishwavidyalaya (University of Technology of MP), Bhopal. He did his BE in Electronics and Telecommunication Engineering from Government Engineering College, Jabalpur (MP) in 1987. He did his M.Tech in Communication and Radar Engineering from IIT Delhi, New Delhi. He has more than 15 years of teaching experience of UG and PG students. He has published 26 papers in various National and International conferences.

#### Email: j\_singhai@rediffmail.com

#### Dr. R.P. Singh

Dr. R. P. Singh is presently working as Professor and Head in IT Department at Maulana Azad National Institute of Technology, Bhopal. Dr. R. P. Singh graduated and post graduated in Electronics Engineering from Institute of Technology, Banaras Hindu University, Varanasi in 1971 and 1973 respectively. He did his Ph.D. from Bhopal University in 1991. He joined Maulana Azad National Institute of Technology (MANIT) as lecturer in 1975. He was promoted to Asst. Prof. in 1987 and as a Professor in 1992. He has published / presented about 55

National/International Papers. He has authored two books in the area of Communication Engineering. *Email: prof\_rpsingh@rediffmail.com* 

#### Prof. James H. Graham

Dr. James H. Graham is currently the Henry Vogt Endowed Professor of Computer Science and Engineering at the University of Louisville. He has over thirty years of experience in Computing and Electrical Engineering. Dr. Graham has previously served as a faculty member at Rensselaer Polytechnic Institute, and as a Product Engineer with General Motors Corporation. He received his M.S. and Ph.D. from Perdue University in 1978 and 1980 respectively. He is a senior member of the Institute of Electrical and Electronics Engineers, a member of the Association of Computing Machinery, a senior member of the Society of Manufacturing Engineers, a member of the American Association for Artificial Intelligence, and a registered Professional Engineer. He has organized two IEEE workshops on special computer architectures for robotics and automation, and is the editor of a book on this topic. He is also the editor of *Safety, Reliability and Human Factors in Robotics Systems*, published by Van Nostrand Reinhold in 1991. His research interests involve information security, algorithms for computational science, intelligent systems, robot safety, distributed computing, computer simulation, and supply chain management applications.

Email: jhgrah01@louisville.edu

#### Dr. Sandip C. Patel - Assistant Professor, Morgan State University, Baltimore

Mr. Sandip C. Patel received his Master of Science in Information and Computer Science from Georgia Institute of Technology, USA and Bachelor of Engineering from Gujarat University, India in 1988 and 1983 respectively. Mr. Patel has over ten years of industry experience and three years of teaching experience, both in USA. He received his Ph.D. at University of Louisville. He has worked as a Consultant with IBM and as a Systems Analyst and Engineer at AT&T (formerly, NCR Corporation) in areas of computer performance, quality assurance, and testing. Mr. Patel has also established and operated a computer consulting company in Florida. He has published papers in areas of computer performance, human computer interface, and teaching via electronic media. His current research and doctoral thesis is on the security enhancements to Supervisory Control and Data Acquisition (SCADA).

#### Email: patels@marshall.edu

#### Mr. Kalyan Kumar De

Mr. Kalyan Kumar De holds a Mechanical Engineering Degrees and a PGDBM from Indian Institute of Management, Kolkatta. He has an industry experience of 25-years. At present, he is working as an Assistant Professor at IILM Institute of Higher Education, Gurgaon, India. His area of interests include services marketing, international marketing, technology & innovation management etc. He has a number of research papers to his credit.

#### Email: kalyande2000@yahoo.co.in

#### Dr. S.K. Tayal

Dr. S.K. Tayal holds an M.Com. and Ph.D. Degree from C.C.S. University, Meerut, India. He is also a Fellow Member of the Institute of Cost and Works Accountants of India (ICWAI) and Associate Member of the Institute of Company Secretaries of India (ICSI). At present, he is Reader in Commerce & Business Administration, Govt. PG College, Noida, Uttar Pradesh, India.

Email: skt\_students@rediffmail.com

#### **ABOUT THE CONTRIBUTORS**

#### Dr. Sanjeev Mittal

Dr. Sanjeev Mittal is working as Reader in University School of Management Studies, Guru Gobind Singh Indraprastha University, Delhi. Formerly, he was Director, Rukmini Devi Institute of Advanced Studies, Rohini, Delhi. He has around 25-years of teaching experience to post-graduate students. He started his career as Lecturer in the Department of Business Management, Maharshi Dayanand University, Rohtak. He has recently been appointed as the Chief Coordinator of Entrepreneurship and Development Cell, set up in the University School of Management Studies, G.G.S. Indraprastha University, New Delhi.

#### Email: dr\_sanjivmittal@yahoo.co.in

#### Ms. Monika Chopra

Ms. Monika Chopra has been working as Lecturer with Delhi Productivity Council, New Delhi. She has 4-years of teaching experience. She is also pursuing her Ph.D. from University School of Management Studies, Guru Gobind Singh Indraprastha University, Delhi under Dr. Sanjeev Mittal.

#### Email: dr\_sanjivmittal@yahoo.co.in

#### Dr. Raj Devasagayam

Dr. Raj Devasagayam holds an MBA from Bombay University in India and a Ph.D. in Marketing from Florida Atlantic University, and is presently Associate Professor of Marketing at Siena College. An active researcher, he has authored a number of book chapters and published in the Journal of Financial Service Marketing, Journal of Brand Management, The International Journal of Business Disciplines, and the Multi Cultural Review on topics ranging from web-based marketing and building brand communities to marketing strategies and pedagogy. Dr. Raj sits on the Board of Marketing Management Association, serves as the Co-editor of Marketing Insights, is the Atlantic Region Representative for the Mu Kappa Tau, and the Faculty Advisor to the American Marketing Association chapter at Siena.

Bringing his scholarship into the classroom is important to Dr. Devasagayam, as he is involving students in his scholarship. He recently collaborated with a student on "Marketing to Ethnic Diaspora: A Preliminary Investigation," which was named Best Overall Paper on Conference Theme at the 2005 Marketing Management Association National Conference. Dr. Raj is a member of the American Marketing Association, the Marketing Science Institute and the Popular Culture Association.

#### Emai: rdevasagayam@siena.edu

#### Mrs. Sangeeta Nakhate

Mrs. Sangeeta Nakhate received B.E. Degree in 1995 from Nagpur University and M. Tech (Hons) Degree from Maulana Azad National Institute of Technology, Bhopal in 2003 and is pursuing Ph.D. from the same institution. Presently, she is working as lecturer in the Department of Electronics & Communication Engg. at M.A.N.I.T., Bhopal, India. She has ten years of teaching experience. She received young scientist award by Madhya Pradesh council of Science and Technology in March 2005. She also received Best Research Paper award for her research paper in the conference of Vijnana Parishad of India which is an International Society dedicated to the application of Mathematics in the field of Science and Technology has a reciprocity agreement with American Mathematical Society, in May 2004. She has been Member of the committee for Directorate of health service and technical expert for the project undertaken by M.P. Government-Use of Information Technology in e-health, Madhya Pradesh-Vision 2003.

#### Email: san\_manit@rediffmail.com

#### **ABOUT THE CONTRIBUTORS**

#### Dr. A. Somkuwar

Dr. Ajay Somkuwar received B.E.(Hons) degree in Electronics & Tele Communication in 1991 from Jabalpur and M. Tech Degree in Digital Communication Engg. from MACT, Bhopal. Subsequently, he carried out his research from Indian Institute of Technology, New Delhi and was awarded Ph.D. in 2003. Presently, he is working as Assistant Professor in the Department of Electronics & Communication Engg. at M.A.N.I.T., Bhopal, India since last 15 years. His research area includes signal processing, biomedical engineering. He has visited abroad for his research presentation. He is a member of IETE, New Delhi.

#### Email: asomkuwar@rediffmail.com

#### **Ms. Upasana Diwan**

Ms. Upasana Diwan is a Research Scholar at Indian Institute of Technology, New Delhi, India. She is an MBA with specialization in Finance from University of Pune, India, and is also UGC-NET qualified. She has one year of teaching experience.

#### Email: upasana\_29@yahoo.com

#### Mr. Lalit Sharma

Mr. Lalit Sharma is a Lecturer in the Department of Computer Applications at Delhi Institute of Advanced Studies, Delhi, India. His qualifications include MCA from Gurukul Kangri Vishwavidyalaya, Haridwar, India and B.Sc. (Computer Science) from Maharshi Dayanand University, Rohtak, India. He has over 5-years of teaching experience in various Institutions affiliated with Guru Gobind Singh Indraprastha University, Delhi, & U.P. Technical University, Uttar Pradesh, India. His area of interest include Automata Theory, Compiler Design, Artificial Intelligence & Computer Networks.

#### Email: sharmalalit\_78@rediffmail.com

#### Ms. Ashima Agarwal

Ms. Ashima Agarwal is working as a Lecturer in Amity Business School, Noida. She is an MBA (Finance) from Mohan Lal Sukhadia University, Rajasthan. She is also an Associate Member of the Institute of Company Secretaries of India (ICSI), New Delhi, India. She is UGC-NET & JRF qualified.

Email: agarwal\_ashima@yahoo.com