11. (a) (i) Check whether the systems described by the following equations are (1) $y(n) = x(n)\cos\omega n$ (2) $y(n) = |x(n)|$. Static or Dynamic, Causal or non causal, Linear or nonlinear, Time variant or invariant, Stable or Unstable. (7)

    (ii) Find the response of the system for the input signal, $x(n) = \{1, 2, 2, 3\}$ and $h(n) = \{1, 0, 3, 2\}$. (6)

Or

(b) Determine the inverse Z-transform of $X(z) = 1/1 - 1.5z^{-1} + 0.5z^{-2})$ if

    (i)   $ROC : |Z| > 1$

    (ii)  $ROC : |Z| < 0.5$

    (iii) $ROC : 0.5 < |Z| < 1$. (13)

12. (a) Find the 8 point DFT of the sequence $x(n) = \{1, 1, 1, 1, 1, 1, 0, 0\}$. (13)

Or

(b) Compute the DFT for the sequence $\{2, 2, 2, 2, 1, 1, 1, 1\}$. Using radix -2 DIT - FFT algorithm. (13)

13. (a) Convert the analog filter with transfer function $H(s) = \dfrac{2}{(s+1)(s+2)}$ into digital filter using impulse invariant method. (13)

Or

(b) Design a digital Chebyshev filter satisfying the constraints.

    $0.8 \leq |H(e^j)| \leq 1$ for $0 \leq \omega \leq 0.2\pi$

    $|H(e^j)| \leq 0.2$      for $0.6\pi \leq \omega \leq \pi$

    Using Bilinear transformation. (13)

14. (a) Design an Ideal highpass filter with frequency response using hamming window

$$H_d(e^{j\omega}) = \begin{cases} 0, & -\dfrac{\pi}{2} \leq \omega \leq \dfrac{\pi}{2} \\ 1, & \dfrac{\pi}{2} \leq |\omega| \leq \pi \end{cases}$$

Plot the magnitude response for $N = 7$. (13)

Or

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**Digital Signal Processing Anna University Question Paper:**

*Verbal and Nonverbal Features of Human-Human and Human-Machine Interaction* Anna Esposito,Nikolaos Bourbakis,Nikolaos Avouris,Ioannis Hatzilygeroudis,2008-12-17 This book is dedicated to the dreamers their dreams and their perseverance in research work This volume brings together the selected and peer reviewed contributions of the p ticipants at the COST 2102 International Conference on Verbal and Nonverbal F tures of Human Human and Human Machine Interaction held in Patras Greece October 29 31 2007 hosted by the 19th IEEE International Conference on Tools with Artificial Intelligence ICTAI 2008 The conference was sponsored by COST European Cooperation in the Field of Scientific and Technical Research www cost esf org in the domain of Information and Communication Technologies ICT for disseminating the advances of the search activity developed within COST Action 2102 Cross Modal Analysis of V bal and Nonverbal Communication www cost2102 eu COST Action 2102 is a network of about 60 European and 6 overseas laboratories whose aim is to develop an advanced acoustical perceptual and psychological analysis of verbal and non verbal communication signals originating in spontaneous face to face interaction in order to identify algorithms and automatic procedures capable of identifying the human emotional states Particular care is devoted to the recognition of emotional states gestures speech and facial expressions in antici tion of the implementation of intelligent avatars and interactive dialogue systems that could be exploited to improve user access to future telecommunication services see COST 2102 Memorandum of Understanding MoU www cost2102 eu      **The Hybrid Face** Massimo Leone,2023-12-12 This original and interdisciplinary volume explores the contemporary semiotic dimensions of the face from both scientific and sociocultural perspectives putting forward several traditions aspects and signs of the human utopia of creating a hybrid face The book semiotically delves into the multifaceted realm of the digital face exploring its biological and social functions the concept of masks the impact of COVID 19 AI systems digital portraiture symbolic faces in films viral communication alien depictions personhood in video games online intimacy and digital memorials The human face is increasingly living a life that is not only that of the biological body but also that of its digital avatar spread through a myriad of new channels and transformable through filters post productions digital cosmetics all the way to the creation of deepfakes The digital face expresses new and largely unknown meanings which this book explores and analyzes through an interdisciplinary but systematic approach The volume will interest researchers scholars and advanced students who are interested in digital humanities communication studies semiotics visual studies visual anthropology cultural studies and broadly speaking innovative approaches about the meaning of the face in present day digital societies The Open Access version of this book available at http www taylorfrancis com has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license      **Signal Processing in Medicine and Biology** Iyad Obeid,Ivan Selesnick,Joseph Picone,2020-03-16 This book covers emerging trends in signal processing research and biomedical engineering exploring the ways in which signal

processing plays a vital role in applications ranging from medical electronics to data mining of electronic medical records Topics covered include statistical modeling of electroencephalograph data for predicting or detecting seizure stroke or Parkinson s machine learning methods and their application to biomedical problems which is often poorly understood even within the scientific community signal analysis medical imaging and machine learning data mining and classification The book features tutorials and examples of successful applications that will appeal to a wide range of professionals and researchers interested in applications of signal processing medicine and biology **Artificial Intelligence and Society** Dr. R. B. Konda, Dr. Mahesh M. Ganwar, Prof. Kaveri Kori, Dr. Hanmanthappa Sedamkar, Dr. Manikamma S., Dr. Saibanna. & Dr. Mitradevi Halimani,2024-11-08 The integration of AI powered e gamified modules in education has significantly impacted students scientific attitudes and academic achievement in science This study investigates how AI driven gamification enhances engagement critical thinking and problem solving skills leading to improved academic performance AI enables personalized learning experiences by adapting to individual student needs thus fostering a more interactive and learner centered approach E gamified modules provide immediate feedback motivating students to correct errors and reinforce learning The main aim of the study is to find out whether there is any significant difference between pre test post test mean scores of secondary school students taught with and without AI powered e gamified modules in science 80 Samples were chosen by employing purposive sampling technique The researcher has used standardized PhET simulation modules The results show that the post test mean scores of the experimental group are significantly different than that of the control group The study suggests that when students are exposed to AI powered gamified learning environments they develop a more positive disposition toward scientific methods and show measurable improvements in performance This research highlights the potential of AI in transforming traditional education by making learning more dynamic personalized and effective thereby fostering a deeper understanding of science and its applications *Advances in IoT and Security with Computational Intelligence* Anurag Mishra,Deepak Gupta,Girija Chetty,2023-09-21 The book is a collection of peer reviewed best selected research papers presented at the International Conference on Advances in IoT and Security with AI ICAISA 2023 organized by Deen Dayal Upadhyaya College University of Delhi New Delhi India in collaboration with University of Canberra Canberra Australia and NIT Arunachal Pradesh Itanagar AP India during March 24 25 2023 The book includes various applications and technologies in this specialized sector of Industry 4 0 The book is divided into two volumes It focuses on recent advances in Internet of Things and security with its applications using artificial intelligence **Nonlinear Speech Modeling and Applications** Gerard Chollet,Anna Esposito,Marcos Faundez-Zanuy,Maria Marinaro,2005-07-12 This book presents the revised tutorial lectures given at the International Summer School on Nonlinear Speech Processing Algorithms and Analysis held in Vietri sul Mare Salerno Italy in September 2004 The 14 revised tutorial lectures by leading international researchers are organized in topical sections on dealing with nonlinearities in speech signals acoustic to

articulatory modeling of speech phenomena data driven and speech processing algorithms and algorithms and models based on speech perception mechanisms Besides the tutorial lectures 15 revised reviewed papers are included presenting original research results on task oriented speech applications *Australian National Bibliography* ,1996 **The Cumulative Book Index** ,1989 A world list of books in the English language *Electrical & Electronics Abstracts* ,1997 Popular Science ,1990-08 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 Cumulative Index to Nursing Literature Cinahl Information Systems Staff,1999

**The Publishers' Trade List Annual** ,1985 **Popular Science** ,1990 Optical Techniques for Environmental Sensing, Workplace Safety, and Health Monitoring Maksymilian Pluta,Mariusz Szyjer,2002 **Neural Approaches to Dynamics of Signal Exchanges** Anna Esposito,Marcos Faundez-Zanuy,Francesco Carlo Morabito,Eros Pasero,2019-09-18 The book presents research that contributes to the development of intelligent dialog systems to simplify diverse aspects of everyday life such as medical diagnosis and entertainment Covering major thematic areas machine learning and artificial neural networks algorithms and models and social and biometric data for applications in human computer interfaces it discusses processing of audio visual signals for the detection of user perceived states the latest scientific discoveries in processing verbal lexicon syntax and pragmatics auditory voice intonation vocal expressions and visual signals gestures body language facial expressions as well as algorithms for detecting communication disorders remote health status monitoring sentiment and affect analysis social behaviors and engagement Further it examines neural and machine learning algorithms for the implementation of advanced telecommunication systems communication with people with special needs emotion modulation by computer contents advanced sensors for tracking changes in real life and automatic systems as well as the development of advanced human computer interfaces The book does not focus on solving a particular problem but instead describes the results of research that has positive effects in different fields and applications Guide to Vulnerability Analysis for Computer Networks and Systems Simon Parkinson,Andrew Crampton,Richard Hill,2018-09-04 This professional guide and reference examines the challenges of assessing security vulnerabilities in computing infrastructure Various aspects of vulnerability assessment are covered in detail including recent advancements in reducing the requirement for expert knowledge through novel applications of artificial intelligence The work also offers a series of case studies on how to develop and perform vulnerability assessment techniques using start of the art intelligent mechanisms Topics and features provides tutorial activities and thought provoking questions in each chapter together with numerous case studies introduces the fundamentals of vulnerability assessment and reviews the state of the art of research in this area discusses vulnerability assessment frameworks including frameworks for industrial control and cloud systems examines a range of applications that make use of artificial intelligence to enhance the vulnerability assessment processes presents visualisation techniques that

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