

**EE434**  
**Biomedical Signal Processing**  
**Spring 2011**  
**Final**

**Due date:** June 10<sup>th</sup>, 2011, midnight

**Instructions:** This is a take-home test. Complete the questions, and return your work as a single PDF document by e-mail before the due date and time. Clearly explain your methodology and justify your answers. Sharing of ideas is encouraged, but sharing of results and/or text is not. Your name on your test is a testimony that you have neither received nor given any unauthorized assistance. Correct answers to wrong questions are not creditable.

**Question 1:** (15 pts) Consider the Hodgkin-Huxley action potential model, and explain how the following changes would affect the action potentials generated by an external current.

- a) (5 pts) Half of the Na<sup>+</sup> channels on the axonal membrane are inhibited.
- b) (5 pts) Half of the K<sup>+</sup> channels on the axonal membrane are inhibited.
- d) (5 pts) The axon has been placed in a lower Na<sup>+</sup> environment.

**Question 2:** (25 pts) Stochastic models of molecular evolution on nucleotide sequences characterize the probability of replacing a base  $X$  at a site with another base  $Y$  in  $t$  units of time by a matrix  $P(t)$  of probabilities  $P_{X \rightarrow Y}(t)$  determined by

$$P(t) = \begin{bmatrix} P_{A \rightarrow A}(t) & P_{A \rightarrow G}(t) & P_{A \rightarrow T}(t) & P_{A \rightarrow C}(t) \\ P_{G \rightarrow A}(t) & P_{G \rightarrow G}(t) & P_{G \rightarrow T}(t) & P_{G \rightarrow C}(t) \\ P_{T \rightarrow A}(t) & P_{T \rightarrow G}(t) & P_{T \rightarrow T}(t) & P_{T \rightarrow C}(t) \\ P_{C \rightarrow A}(t) & P_{C \rightarrow G}(t) & P_{C \rightarrow T}(t) & P_{C \rightarrow C}(t) \end{bmatrix} = \exp(Qt)$$

where  $Q$  is the associated rate matrix. The rate matrix presumed by the Kimura's two-parameter model is given by

$$Q = \begin{bmatrix} -\alpha - 2\beta & \alpha & \beta & \beta \\ \alpha & -\alpha - 2\beta & \beta & \beta \\ \beta & \beta & -\alpha - 2\beta & \alpha \\ \beta & \beta & \alpha & -\alpha - 2\beta \end{bmatrix}$$

where  $\alpha$  and  $\beta$  are the transition and the transversion rates respectively.

- a) (10 pts) Compute and plot the curves of  $P_{A \rightarrow G}(t)$ ,  $P_{C \rightarrow A}(t)$ , and  $P_{T \rightarrow T}(t)$  using  $\alpha = 1.0$  and  $\beta = 0.5$  for  $t \in [0, 1]$ .
- b) (10 pts) Repeat above using  $\alpha = 2.0$  and  $\beta = 1.0$ .
- c) (5 pts) What can you say about the limit values and the speed of convergence of  $P(t)$  as  $t$  goes to infinity between the two cases above?

**Question 3:** (30 pts) Carry out a SAM analysis on the dataset GDS3542 available for download at the GEO data server, and identify the differentially expressed genes between

- a) (10 pts) the baseline and at 12 hours.

# Multiple Choice Biomedical Signal Processing Final Exam

**Mark Steyvers**



## **Multiple Choice Biomedical Signal Processing Final Exam:**

**XLVI Mexican Conference on Biomedical Engineering** José de Jesús Agustín Flores Cuautle, Balam Benítez-Mata, Ricardo Antonio Salido-Ruiz, Gustavo Adolfo Alonso-Silverio, Guadalupe Dorantes-Méndez, Esmeralda Zúñiga-Aguilar, Hugo A. Vélez-Pérez, Edgar Del Hierro-Gutiérrez, Aldo Rodrigo Mejía-Rodríguez, 2023-10-25 This book reports on cutting edge research and best practices in the broad field of biomedical engineering Based on the XLVI Mexican Congress on Biomedical Engineering CNIB 2023 held on November 2-4 2023 in Villahermosa Tabasco Mexico this first volume of the proceedings covers research topics in biomedical signals and image processing artificial intelligence biosensors and wearable systems with applications ranging from disease classification and diagnosis to health monitoring and medical therapy All in all this book provides a timely snapshot on state of the art achievements in biomedical engineering and current challenges in the field It addresses both researchers and professionals and it is expected to foster future collaborations between the two groups as well as international collaborations

**Frontier Computing** Neil Y. Yen, Jason C Hung, 2017-09-28 This volume contains the proceedings of the 5th International Conference on Frontier Computing FC 2016 Tokyo Japan July 13-15 2016 This international meeting provided a forum for researchers to share current understanding of recent advances and emergence in information technology science and engineering with themes in the scope of Communication Networks Business Intelligence and Knowledge Management Web Intelligence and any related fields that further the development of information technology The articles presented cover a wide spectrum of topics database and data mining networking and communications web and internet of things embedded system soft computing social network analysis security and privacy optics communication and ubiquitous pervasive computing Many papers report results of great academic potential and value and in addition indicate promising directions of research in the focused realm of this conference series Readers including students academic researchers and professionals will benefit from the results presented in this book It also provides an overview of current research and can be used as a guidebook for those new to the field

**VTAC eGuide 2016** VTAC, 2015-07-15 The VTAC eGuide is the Victorian Tertiary Admissions Centre's annual guide to application for tertiary study scholarships and special consideration in Victoria Australia The eGuide contains course listings and selection criteria for over 1 700 courses at 62 institutions including universities TAFE institutes and independent tertiary colleges

**Modern Digital Signal Processing** V. Udayashankara, 2016-02-29 Intended as a text for three courses Signals and Systems Digital Signal Processing DSP and DSP Architecture this comprehensive book now in its Third Edition continues to provide a thorough understanding of digital signal processing beginning from the fundamentals to the implementation of algorithms on a digital signal processor This Edition includes Assembly C and real time C programs for TMS 320C54XX and 320C6713 processor which are useful to conduct a laboratory course in Digital Signal Processing Besides many existing chapters are modified substantially to widen the coverage of the book Primarily designed for undergraduate students of Electronics and

Communication Engineering Electronics and Instrumentation Engineering Electrical and Electronics Engineering Instrumentation and Control Engineering Computer Science and Information Science this text will also be useful for advanced digital signal processing and real time digital signal processing courses of postgraduate programmes

**Documentation Abstracts** ,1995      Biomedical Signal Processing and Signal Modeling Eugene N. Bruce,2001 A biomedical engineering perspective on the theory methods and applications of signal processing This book provides a unique framework for understanding signal processing of biomedical signals and what it tells us about signal sources and their behavior in response to perturbation Using a modeling based approach the author shows how to perform signal processing by developing and manipulating a model of the signal source providing a logical coherent basis for recognizing signal types and for tackling the special challenges posed by biomedical signals including the effects of noise on the signal changes in basic properties or the fact that these signals contain large stochastic components and may even be fractal or chaotic Each chapter begins with a detailed biomedical example illustrating the methods under discussion and highlighting the interconnection between the theoretical concepts and applications The author has enlisted experts from numerous subspecialties in biomedical engineering to help develop these examples and has made most examples available as Matlab or Simulink files via anonymous ftp Without the need for a background in electrical engineering readers will become acquainted with proven techniques for analyzing biomedical signals and learn how to choose the appropriate method for a given application      *Biomedical Signal Processing: Compression and automatic recognition* Arnon Cohen,1986      **Index Medicus** ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings      *Excerpta Medica* ,1988 Ten issues per volume Arranged under general aspects biostatistics and biometrics health care epidemiology screening and prevention populations at risk food and nutrition life styles and evaluation of interventions Entries give bibliographical information abstract and cross references Subject author indexes      *Cumulated Index Medicus* ,1991      **Government Reports Announcements & Index** ,1975      Asha American Speech-Language-Hearing Association,1988      **The Engineering Index Annual** ,1992 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world s most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly      *Government Reports Annual Index* ,1986      **Computer & Control Abstracts** ,1996      *Journal of Engineering Education* ,2003      *Electrical & Electronics Abstracts* ,1997      **Physical Therapy Research** Elizabeth Domholdt,2000 The New Edition of this text presents physical therapy research in a clear and concise manner It aids the user in reading and

interpreting published research and in designing and implementing research studies Guidelines for applying research principles and a sample research paper and presentation are included This edition presents updated reference sections covering the reemergence of the case study as a valid form of scholarship and the continuing interest in outcomes research Also features a glossary that defines research terms      **Aerospace Medicine and Biology** ,1988 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA      **Comprehensive Dissertation Index** ,1984

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