**LIST OF FIGURES[Font Size 22]**

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| 1.1  1.2  1.3  2.1  2.2  2.3  2.4  2.5  3.1  3.2  3.3  3.4  4.1  4.2  4.3  4.4  4.5  4.6  4.7  4.8  4.9  5.1  5.2  5.3 | A motif problem and its solution…………………………………………….  A planted (15,4) motif and its solution………………………………………  Amount of sequence data in GenBank from 1982 to 2000…………………..  Pseudo code for EM algorithm………………………………………………  Pseudo code for MEME algorithm…………………………………………..  Pseudo code for CONSENSUS algorithm……………………………………  Pseudo code for MULTIPROFILER algorithm………………………………  Pseudo code for GIBBS SAMPLING algorithm……………………………...  Pseudo code for SPSTAR algorithm…………………………………………..  5 Sequence data, each of 10 characters long…………………………………...  Pseudo code for modified SPSTAR algorithm………………………………..  Performance comparison of SPSTAR and modified SPSTAR………………..  Suffix tree for the string ACGACT…………………………………………...  Algorithm for constructing Suffix tree for a given sequence…………………..  (a-f) Each steps after inserting each suffixes of the string ACGACT………….  Data structure for implementing Suffix tree…………………………………...  Implementation of Suffix tree for the string ACGACT……………………….  Pseudo Code for Suffix Tree Construction Algorithm………………………...  Pseudo code for SPSTAR algorithm using suffix tree…………………………  Pseudo code for searching the best *l*-mer for a current motif from a suffix tree.  Suffix Tree for the string {AAACCCTGACTCCGAACTGA}……………….  Performance of the proposed algorithm when substitution increases gradually..  Performances of different motif finding algorithms…………………………...  Performance comparison of SPSTAR and proposed algorithm for different dataset……………………………………………………………………...…. | 2  3  9  20  21  22  23  24  27  29  30  32  34  34  35  36  36  37  39  40  41  44  45  46 |

[N.B. 2.1 means First Figure of Chapter 2. Similarly 4.7 means seventh figure of chapter 4.]