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Title: Sparse Matrix

Content: A A A sparse matrix or sparse array is a matrix in which most of the elements are zero. By contrast, if most of the elements are nonzero, then the matrix is considered dense. The number of zero-valued elements divided by the total number of elements (e.g., m x n for an m X n matrix) is called the sparsity of the matrix (which is equal to 1 minus the density of the matrix).Storing a sparse matrix A matrix is typically stored as a two-dimensional array. Each entry in the array represents an element $a_{i,j}$ of the matrix and is accessed by the two indices i and j. Conventionally, i is the row index, numbered from top to bottom, and j is the column index, numbered from left to right. For an m x n matrix, the amount of memory required to store the matrix in this format is proportional to m X n (disregarding the fact that the dimensions of the matrix also need to be stored).In the case of a sparse matrix, substantial memory requirement reductions can be realized by storing only the non-zero entries. Depending on the number and distribution of the non-zero entries, different data structures can be used and yield huge savings in memory when compared to the basic approach. The trade-off is that accessing the individual elements becomes more complex and additional structures are needed to be able to recover the original matrix unambiguously.Formats can be divided into two groups:Those that support efficient modification, such as DOK (Dictionary of keys), LIL (List of lists), or COO (Coordinate list). These are typically used to construct the matrices.Those that support efficient access and matrix operations, such as CSR (Compressed Sparse Row) or CSC (Compressed Sparse Column).

Author:

Anca Manea

All posts PDF

Title: Life as a student

Content: That's a great question best answered by our current and recent students. We have included a number of student articles on this website, and will happily connect you with others if needed.

Check out student blog posts, recent news, photos, videos and more here.

Do you know which programme you want to enrol in? If yes, you can ask the associated programme coordinator about what being a student of, say, carpentry, is like.

Author:

Adrian

All posts PDF

Title: Visit Paris

Content: 1) The Buildings and Monuments

Paris has some beautiful and historic buildings and monuments. Here are some that you must see (click on the links to get more information and see a photograph):

The Eiffel Tower - the most famous of all, and one of the most iconic constructions in the World.

2) The Food and Wine

Sample the many delicious cheeses, bread, patisserie, pates, the great French wines, the gourmet restaurants, as well as paying a visit to the Champagne Region, which is just a day trip away.

3) The Shopping and Fashion

Go for the Sales, visit the great department stores Lafayette and Printemps, stroll along the Champs Elysees, or visit the annual fashion shows.

Author:

Anca

All posts PDF

Title: Hello World

Content: la la la la la

Author:

me

All posts PDF

Title: Proiect Practica 2018

Content: CerinÈ›e:

ConsiderÃ¢nd o baza de date cu minim 4 tabele, fiecare cu 3 coloane si minim 5 inregistrari se cere:

- Sa se treacÄƒ in format XML tabelele din baza de date folosind una sau toate cele trei tehnologii din figura,

- Sa se genereze pe baza xml-urilor create rapoarte in format .pdf si .html cu datele din tabele

- Sa se facÄƒ un meniu al aplicaÈ›iei in care sa contina:

 * posibilitatea de a selecta baza de date cu datele referitoare la conexiune

 * salvarea datelor referitoare la diversele conexiuni cu posibilitae de criptare decriptare parola

 * buton pentru generare de xml,

 * buton pentru alegerea caii unde vor fi salvate fiÈ™ierele xml,

 * buton de generare fiÈ™iere html + cale aferenta

 * buton de generare fiÈ™iere pdf + cale aferenta

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Clarificari:

Lista de cerinȘe nu este stricta si se pot adăfuga/modifica cerinȘe in urma unor discuȘii referitoare la ce se doreȘte sa facă proiectul

Proiectele pot sa fie dezvoltate individual sau pe echipe de maxim 3 persoane

Este strict necesara folosirea unui sistem SVN, recomand Github (varianta private si free bitbucket +client SourceTree) -Practica2018Nume1Nume2Nume3

Daca se doreste interfata poate sa mearga si catre web (JSP).

Author:

Anca