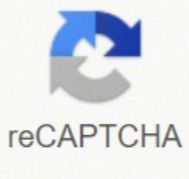




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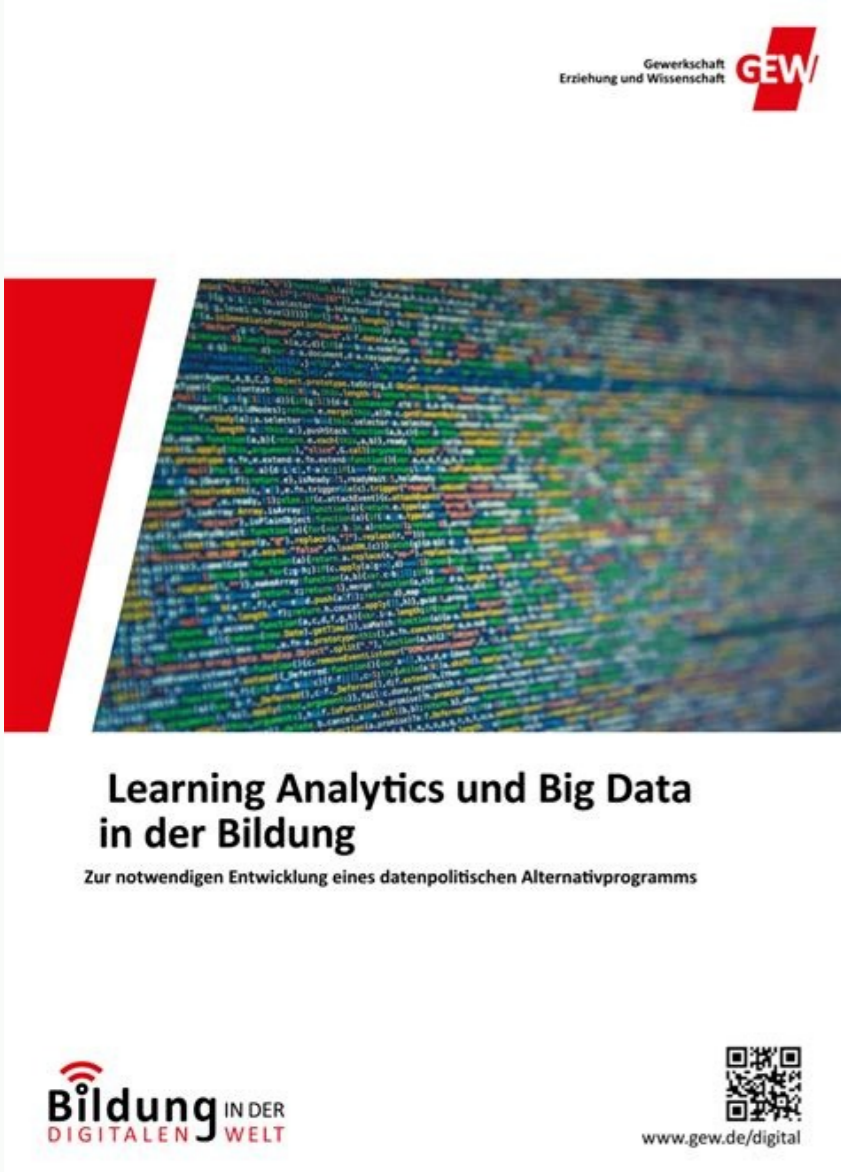
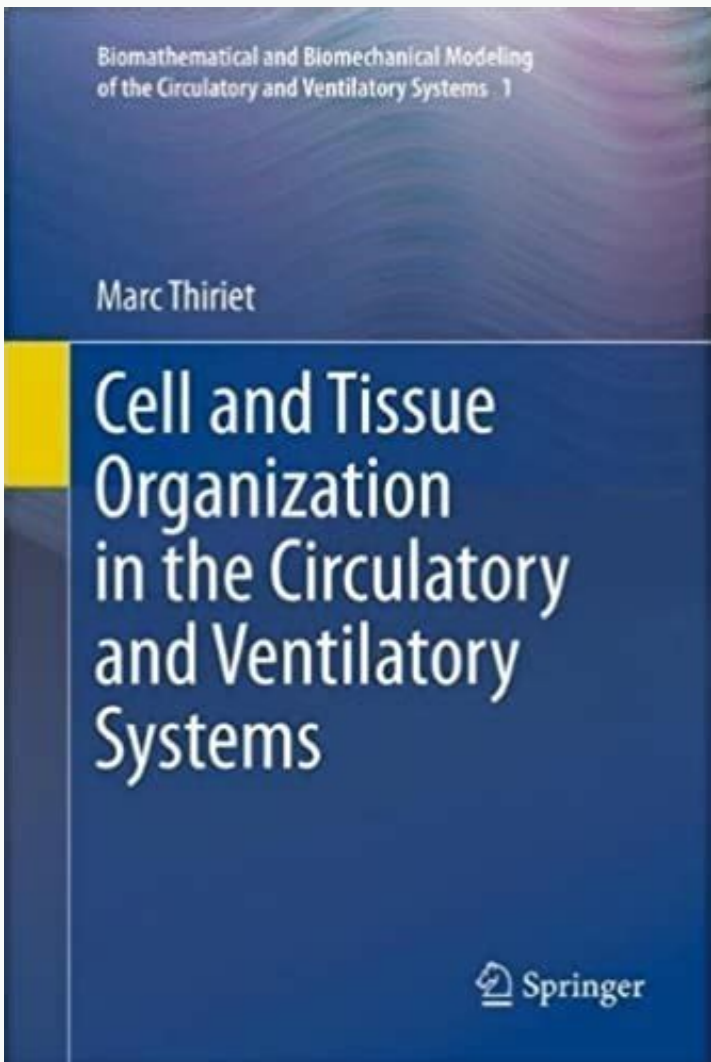
BG / 111 / 07 / CBG / BDA / 07 / 12 / 17
Q.P.Code: 25681
Sub: - Big Data Analytics (3 Hours) Max. Marks: 80

- N. B: 1. Question ONE is compulsory.
2. Attempt any THREE out of remaining.
3. Figures to the right indicate full marks.
4. Assume suitable data if necessary.

- Qu-1 a) What are the characteristics of big Data? 5
b) Explain Hadoop Architectural Model. 5
c) List the different issues and challenges in data stream query processing. 5
d) Explain NoSQL data Architecture patterns. 5
- Qu-2 a) Explain DGIM algorithm for counting ones in a stream with example. 10
b) Explain Social Network graph clustering algorithm with example. 10
- Qu-3 a) Explain Model for Recommendation System in detail. 10
b) Explain Matrix - Matrix Multiplication using TWO step MapReduce model. 10
- Qu-4 a) Explain PageRank algorithm with suitable example. 10
b) Explain Bloom's filter for stream data mining with example. 10
- Qu-5 a) Explain PCY algorithm with suitable example. 10
b) i) Find Jaccard distance for {2, 3, 4} & {2, 3, 5, 7} and {a, a, a, b} & {a, a, b, b, c} 10
ii) Find Hamming Distance between 110011 & 010101 and 11001 & 01011 10
iii) Compute the cosines of the angles between (3, -1, 2) and (-2, 3, 1). 10
- Qu-6 Write a note on 20
a) Hadoop Ecosystem
b) CURE Algorithm
c) HITS
d) MapReduce programming model

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