205 3 form a set with all of these nodes 1 14 1 Ceturn this set as children In the find-random-child function, use make - move to find a random set of frenct paths & find a random frenct path amongst tham. i strate in the P= TP TP+FP. 11 FIRST TRATERIE TPtFN. $TP = \begin{pmatrix} 4 \\ 2 \end{pmatrix} + \begin{pmatrix} 2 \\ 2 \end{pmatrix} + \begin{pmatrix} 4 \\ 2 \end{pmatrix} + \begin{pmatrix} 3 \\ 2 \end{pmatrix} + \begin{pmatrix} 3 \\ 2 \end{pmatrix}$ $= \left(\begin{array}{cccc} \frac{2}{4x3} & + & \frac{2x4}{1x2} & + & \left(\begin{array}{c} \frac{2}{4x3} \\ 1x2 \end{array}\right) & + & \left(\begin{array}{c} \frac{2}{4x3} \\$ = 7+6+6 = 19.

Com. 1 PP= (2x4+4x1+2x1) + (4x.1) + (3x3) Com. 3 27. (4 XI) + (C1 X4) + (4 X3) + C123) + (2×3). t 4 t12t3t6 29 19+27 TP+FN 19+29

F measure : F= 2 PR R+P. 2 (0.413) (0.395) (0°413) + (0°395) 1117 40.4037 N 86 - 9 -2 max 1 C; n L; in marino intic [4-+4+3]. 11 1 1x 2 18 1x / 1 = 0.611 NMI:- $NMI = -2 \stackrel{\cancel{5}}{\cancel{5}} \stackrel{\cancel{5$ Ció = S C; log C; t & C; log 6 N=18. 823 R=3

*

7

3

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1

4

1

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4

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9

9



5 C, log C;

= 5 log 5 + 8 log 8 + 5 log 5

-5.56302 -2.8174

-8.3804

For community 1,

C=25x1 + 2x1+1x1

= 8 + 2200

8 log 8 , 5 log 5 , 6 log 6 18.

7588742

-8.4617.

2 5 Cio log Cio N A, A, As detected. Ground 8 5 6. truth 4 log (1)(18) + 1 log (1)(18) + 0 1 log (1) (18) + 4 log (4) (18), 3 log(3)(18) (8) (8) (8) (8) (5) (8) (6) 2 log (2)(8) + 0 + 3 log (3)(19) (8)(5) = -0.096-0.1426-0.5509+1.0210+0.1534 → - 0.0915 + 0.7658. = 1.0589.

MM1 = -2x 1.0589 -8.3804-8.4617 0.1257. bruch, (3)(2) + (0) 1 + (3)(4) mel 1