Problem Chosen	2022	Team Control Number
A	**MCM/ICM** **Summary Sheet**	**XJ162**

test

Summary

123

Keywords: 123456

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Table 3.1: Notation Descriptions

Symbol	Definition
$\mathbf{A}$	A set of artists given in dataset
$\mathbf{G}$	A set of genres provided in dataset
f_i	The total number of followers of artist i, $i \in \mathbf{A}$
g_{ij}	Genre tag between artist i and his or her follower j, $i, j \in \mathbf{A}$
DAS_i	Artist i's decade of active start, accurate to 10 years
r_{ij}	Respective Influence of influencer i over follower j, $i, j \in \mathbf{A}$
w_i	Artist i's weight of normalized indexes
TI_i	Artist i's Total Influence
wf_j	The parameter of follower j' influence, $j \in \mathbf{A}$
wt_i	The weight of artist i's Total Influence, $i, j \in \mathbf{A}$
cg_{ik}	Artist i's Contemporary Influence in certain genre, $i \in \mathbf{A}, k \in \mathbf{G}$
c_i	Artist i's Contemporary Influence, $i \in \mathbf{A}$
S_{ij}	Similarity between artists i and j

4 Model I:Directed Network of Musical Influence Model

5 Sensitivity Test

6 Evaluation of Model

7 Conclusions

REPORT

To: ICM society

From: ICM Team 2104997

Date: January 12, 2022

References

[1] C. E. Shannon. A Mathematical Theory of Communication. 1948, 27(4):623-656.

Appendices

Input matlab source: