## Package 'ISM'

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Type Package

Title Interpretive Structural Modelling (ISM)

Version 0.1.0

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Description The development of ISM was made by Warfield in 1974.

ISM is the process of collaborating distinct or related essentials into a simplified and an organized format. Hence, ISM is a methodology that seeks the interrelationships among the various elements considered and endows with a hierarchical and multilevel structure. To run this package user needs to provide a matrix (VAXO) converted into 0's and 1's. Warfield,J.N. (1974) <doi:10.1109/TSMC.1974.5408524> Warfield,J.N. (1974, E-ISSN:2168-2909).

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**Encoding** UTF-8

Depends xlsx,rJava,xlsxjars

LazyData true

RoxygenNote 6.0.1

NeedsCompilation no

**Repository** CRAN

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#### Description

This methods provides a wellformated solution of ISM

#### Usage

ISM(fname, Dir)

#### Arguments

fname	a matrix consists of 1s' and 0's (initial reachability matrix)
Dir	a path where user wants to save output files

#### Details

This Function Provides well-formatted and readable excel output files (Final Reachability Matrix and Level Partition of each iteration) that make interpretation easier.

#### Value

provides two output files (Final Reachability Matrix and Level Partition of each iteration) in Excel format

#### Author(s)

Adarsh Anand, Gunjan Bansal

#### References

Adarsh Anand, Gunjan Bansal, (2017) "Interpretive structural modelling for attributes of software quality", Journal of Advances in Management Research, Vol. 14 Issue: 3, pp.256-269, https://doi.org/10.1108/JAMR-11-2016-0097

#### Examples

ISM

Mat\_format

#### Description

This Mat\_format Function formats the ISM\_Matrix.xlsx file That is implicitly called by ISM.

#### Usage

Mat\_format(fin\_mat, A\_mat, file2)

#### Arguments

fin_mat	a final matrix consists of 1s' and 0's (final reachability matrix) produced by ISM
A_mat	a initial matrix consists of 1s' and 0's (initial reachability matrix) produced by $\tt ISM$
file2	a final matrix consists of 1s' and 0's (final reachability matrix) produced by ISM

outputformat	This outputformat Function formats the ISM_output.xlsx file that im-
	plicitly called by ISM.

#### Description

This outputformat Function formats the ISM\_output.xlsx file that implicitly called by ISM.

#### Usage

outputformat(file1)

#### Arguments

file1 a Level out iterations produced by ISM

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