```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 17:16:36
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.44
	Elapsed Time	00:00:00.46

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

Case Processing Summary

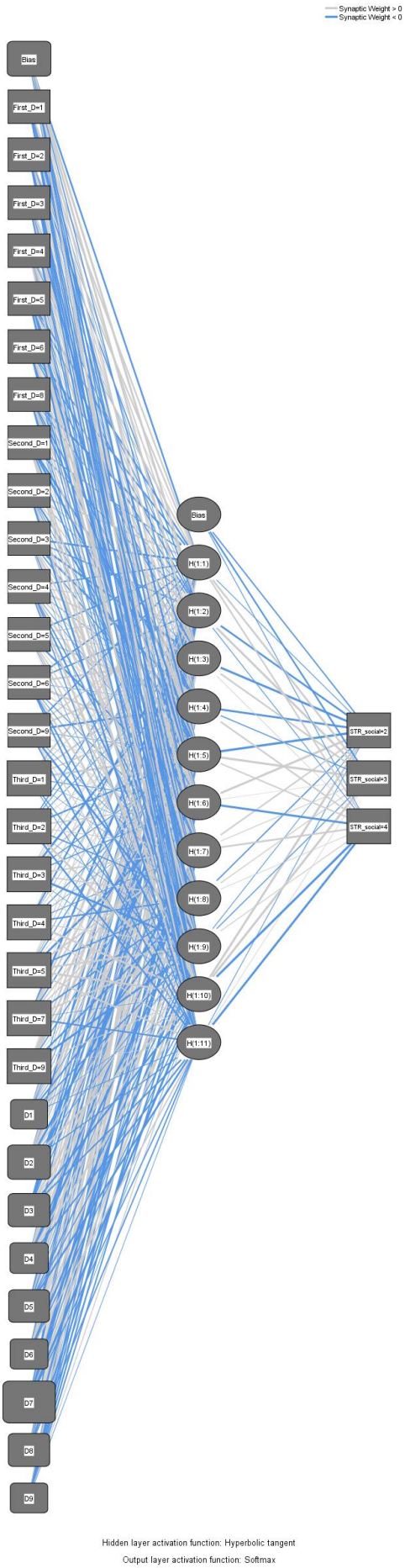
		N	Percent
Sample	Training	12	85.7%
	Testing	2	14.3%
Valid		14	100.0%
Excluded		90	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATIO N
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		30
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		11
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		3
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit


Synaptic Weight > 0
Synaptic Weight < 0
Bias
First_D=1
First_D=2
First_D=3
First_D=4
First_D=5
First_D=6
First_D=8
Second_D=1
Second_D=2
Second_D=3
Second_D=4
Second_D=5
Second_D=6
Second_D=9
Third_D=1
Third_D=2
Third_D=3
Third_D=4
Third_D=5
Third_D=7
Third_D=9
D1
D2
D3
D4
D5
D6
D7
D8
D9
Bias
H(1:1)
H(1:2)
H(1:3)
H(1:4)
H(1:5)
H(1:6)
H(1:7)
H(1:8)
H(1:9)
H(1:10)
H(1:11)
STR_social=2
STR_social=3
STR_social=4
Hidden layer activation function: Hyperbolic tangent
Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	4.365
	Percent Incorrect Predictions	8.3%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.02
Testing	Cross Entropy Error	.339
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted													
		Hidden Layer 1											Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	H(1:7)	H(1:8)	H(1:9)	H(1:10)	H(1:11)	[STR_social =2]	[STR_social =3]	[STR_social =4]
Input Layer	(Bias)	-.419	.689	.716	-.217	.313	.158	-.364	-.245	-.456	.599	-.076			
	[First_D=1]	.371	.279	-.088	.196	-.539	-.289	-.032	.168	-.239	-.451	-.190			
	[First_D=2]	.398	-.249	.248	.027	.228	.273	.179	-.373	-.543	-.191	-.369			
	[First_D=3]	.047	-.012	.276	-.006	.553	-.624	.340	.385	.116	-.226	-.225			
	[First_D=4]	.362	-.180	.147	.035	.492	.418	-.096	.130	-.159	-.243	.490			
	[First_D=5]	-.403	-.259	.348	.030	-.534	-.032	-.396	-.646	.648	.353	-.487			
	[First_D=6]	-.387	-.260	-.253	.077	.151	.199	.569	-.111	-.335	-.113	-.181			
	[First_D=8]	-.563	-.134	.504	-.319	-.333	.658	.280	.359	-.217	-.157	-.070			
	[Second_D=1]	-.234	-.192	.033	-.521	-.669	.044	-.324	.011	.452	.451	.430			
	[Second_D=2]	.482	.311	-.083	.216	-.401	-.141	-.133	.100	.270	.772	-.477			
	[Second_D=3]	-.609	-.312	-.736	-.525	-.251	.190	.553	.170	-.221	.163	-.033			
	[Second_D=4]	-.344	.237	.497	-.107	.277	-.122	.548	-.278	-.418	.684	-.208			
	[Second_D=5]	-.432	.259	.174	.645	.144	-.468	.081	.256	.421	-.078	.009			

	[Second D=6]	-.426	-.331	.637	-.048	.853	.239	-.167	-.104	.467	-.353	-.353			
	[Second D=9]	-.334	.281	.469	-.548	-.099	.043	.110	-.097	-.571	.179	-.332			
	[Third D=1]	.583	.165	.481	.313	1.250	-.148	-.013	-.034	.011	-.245	-.125			
	[Third D=2]	-.222	-.163	-.146	.098	-.379	.263	.164	-.252	-.046	.659	-.437			
	[Third D=3]	.204	.165	-.645	.442	-.202	-.208	.338	.316	-.667	-.060	.104			
	[Third D=4]	.171	-.410	-.041	.124	-.203	-.057	-.153	-.383	.198	.680	.215			
	[Third D=5]	.130	.157	-.078	-.199	.044	-.595	.452	-.334	.562	.622	.434			
	[Third D=7]	.067	-.639	.554	.447	-.320	.281	.255	-.335	.406	-.036	-.393			
	[Third D=9]	.060	.109	.460	.600	.691	-.234	.081	-.411	-.628	.164	.041			
	D1	-.167	.196	.186	-.142	-.075	.279	-.092	-.372	-.274	-.043	-.119			
	D2	-.578	.939	.647	-.087	.505	.049	-.692	.291	-.144	.766	-.223			
	D3	-.215	-1.090	-.480	-.548	-.158	-.213	.009	.628	.249	-.479	-.336			
	D4	-.304	.213	.285	.399	.155	.412	-.320	-.594	.322	.456	-.360			
	D5	.414	-.560	-.605	.242	.501	-.087	-.110	.039	-.260	-.205	-.467			
	D6	.416	-.445	-.248	.332	.306	.264	.120	.475	-.540	-.207	.299			
	D7	-.470	-.323	.043	.174	.250	-.990	-.458	-.166	.577	-1.245	-.232			
	D8	-.410	.051	.166	.104	.431	-.469	.097	.141	-.340	-.064	-.260			
	D9	.300	-.339	.555	-.080	-.592	-.261	-.403	-.343	-.281	.170	-.081			
Hidden Layer 1	(Bias)												-.271	-.397	-.131
	H(1:1)												-.121	.497	.369
	H(1:2)												-.479	.890	-.138
	H(1:3)												-.842	.430	.061
	H(1:4)												-.588	-.203	.371
	H(1:5)												-1.426	.872	.299
	H(1:6)												.740	.009	-.653
	H(1:7)												.332	.138	.441
	H(1:8)												-.259	.171	.068
	H(1:9)												-.116	-.172	.156
	H(1:10)												.906	1.300	-1.760
	H(1:11)												-.118	.045	-.707

Classification

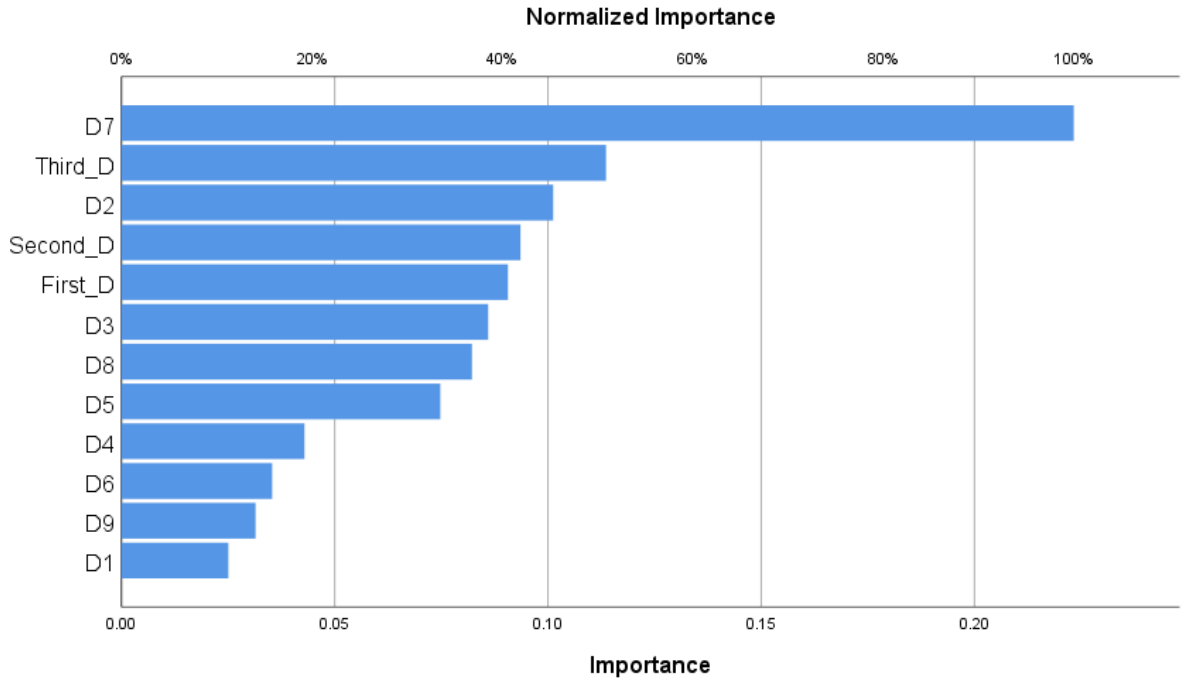
Sample	Observed	Predicted			
		mediocre option	good option	best option	Percent Correct
Training	mediocre option	3	1	0	75.0%
	good option	0	5	0	100.0%
	best option	0	0	3	100.0%

	Overall Percent	25.0%	50.0%	25.0%	91.7%
Testing	mediocre option	0	0	0	0.0%
	good option	0	2	0	100.0%
	best option	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.091	40.6%
Second discourse in text	.094	41.9%
Third discourse in text	.114	50.9%
CONTACT RESTRICTION	.025	11.2%
SANITATION AND HYGIENE	.101	45.3%
ISOLATION OF INFECTED	.086	38.5%
TOTAL ISOLATION	.043	19.2%
HEALTH CARE	.075	33.5%
VIRUS DISSEMINATION	.035	15.8%
LIFESTYLE CHANGES	.223	100.0%
RIGHTS AND FREEDOMS INFRINGEMENT	.082	36.8%
BUREAUCRATIC RESPONSE	.031	14.1%




```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created	13-DEC-2020 17:17:01
Comments	

Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.39
	Elapsed Time	00:00:00.43

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

Case Processing Summary

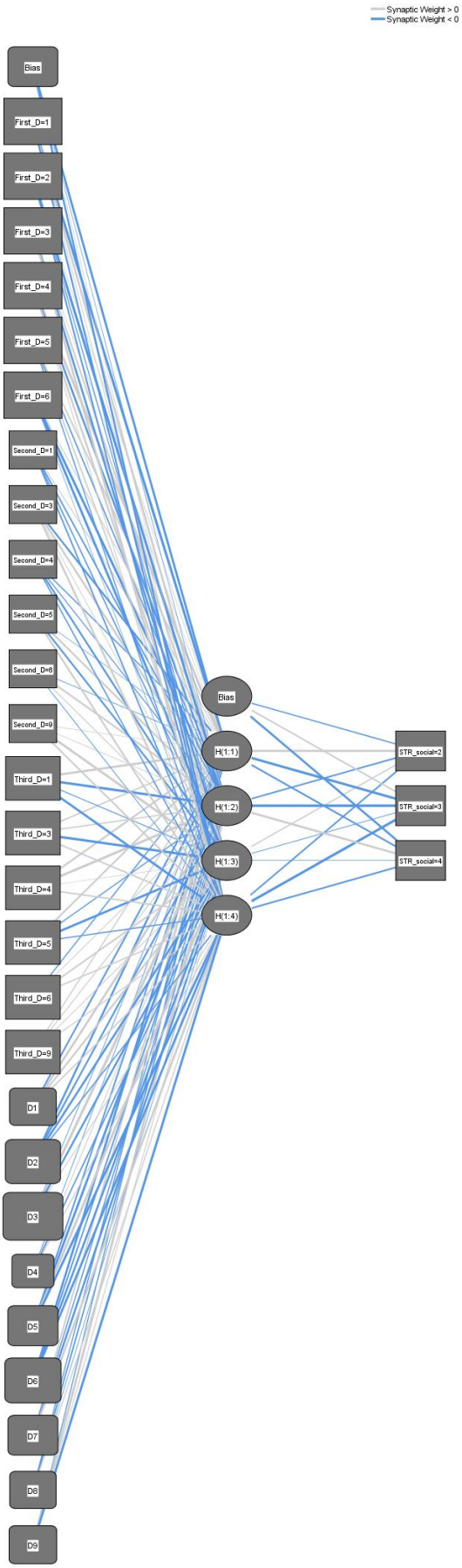
		N	Percent
Sample	Training	9	90.0%
	Testing	1	10.0%
Valid		10	100.0%
Excluded		94	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATIO N
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		27
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		4
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		3
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	5.545
	Percent Incorrect Predictions	22.2%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.03
Testing	Cross Entropy Error	.149
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted						
		Hidden Layer 1				Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	[STR_social=2]	[STR_social=3]	[STR_social=4]
Input Layer	(Bias)	-.529	-.049	.043	-.407			
	[First_D=1]	-.888	.480	.084	-.371			
	[First_D=2]	.057	-.912	-.150	-.330			
	[First_D=3]	.037	.350	-.471	.502			
	[First_D=4]	.830	-.451	.406	.109			
	[First_D=5]	.291	-.234	.254	-.174			
	[First_D=6]	.134	-.676	-.604	-.016			
	[Second_D=1]	.140	-.277	-.232	-.270			
	[Second_D=3]	-.404	.436	.080	.416			
	[Second_D=4]	-.204	-.153	-.385	-.224			
	[Second_D=5]	-.024	.393	-.378	.379			
	[Second_D=6]	-.063	.384	.142	-.096			
	[Second_D=9]	.053	.065	.624	.361			
	[Third_D=1]	.583	-.753	-.138	-.597			
	[Third_D=3]	.266	.232	-.731	.308			
	[Third_D=4]	.401	.884	.042	.293			
	[Third_D=5]	.377	-.160	-.561	-.221			
	[Third_D=6]	-.186	.104	.345	.253			
	[Third_D=9]	.180	.143	.127	.148			

	D1	-.346	.522	.390	.255			
	D2	-.437	-.372	-.474	-.205			
	D3	-.066	1.241	-.435	.129			
	D4	-.076	.121	-.262	.156			
	D5	-.287	-.570	.652	-.623			
	D6	-.522	-.281	-.470	-.512			
	D7	.282	-.186	-.469	.482			
	D8	-.173	-.263	-.057	.155			
	D9	-.155	.644	.129	-.599			
Hidden Layer 1	(Bias)					-.218	.327	-.498
	H(1:1)					.544	-.827	-.370
	H(1:2)					-.298	-1.188	.487
	H(1:3)					.227	-.089	-.050
	H(1:4)					-.328	-1.003	-.357

Classification

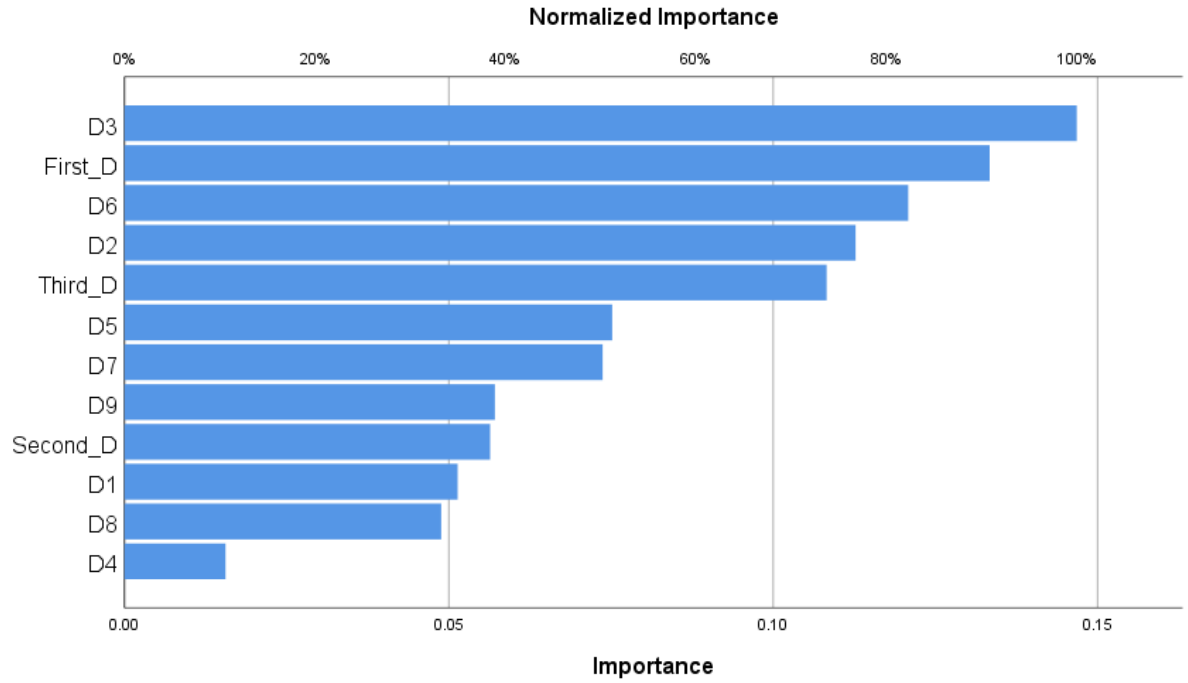
		Predicted			
Sample	Observed	mediocre option	good option	best option	Percent Correct
Training	mediocre option	1	1	1	33.3%
	good option	0	4	0	100.0%
	best option	0	0	2	100.0%
	Overall Percent	11.1%	55.6%	33.3%	77.8%
Testing	mediocre option	0	0	0	0.0%
	good option	0	1	0	100.0%
	best option	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.133	90.8%
Second discourse in text	.056	38.4%
Third discourse in text	.108	73.7%
CONTACT RESTRICTION	.051	35.0%
SANITATION AND HYGIENE	.113	76.8%
ISOLATION OF INFECTED	.147	100.0%

TOTAL ISOLATION	.016	10.6%
HEALTH CARE	.075	51.2%
VIRUS DISSEMINATION	.121	82.3%
LIFESTYLE CHANGES	.074	50.2%
RIGHTS AND FREEDOMS INFRINGEMENT	.049	33.3%
BUREAUCRATIC RESPONSE	.057	38.9%




```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 17:17:06
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.41
	Elapsed Time	00:00:00.44

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

Case Processing Summary

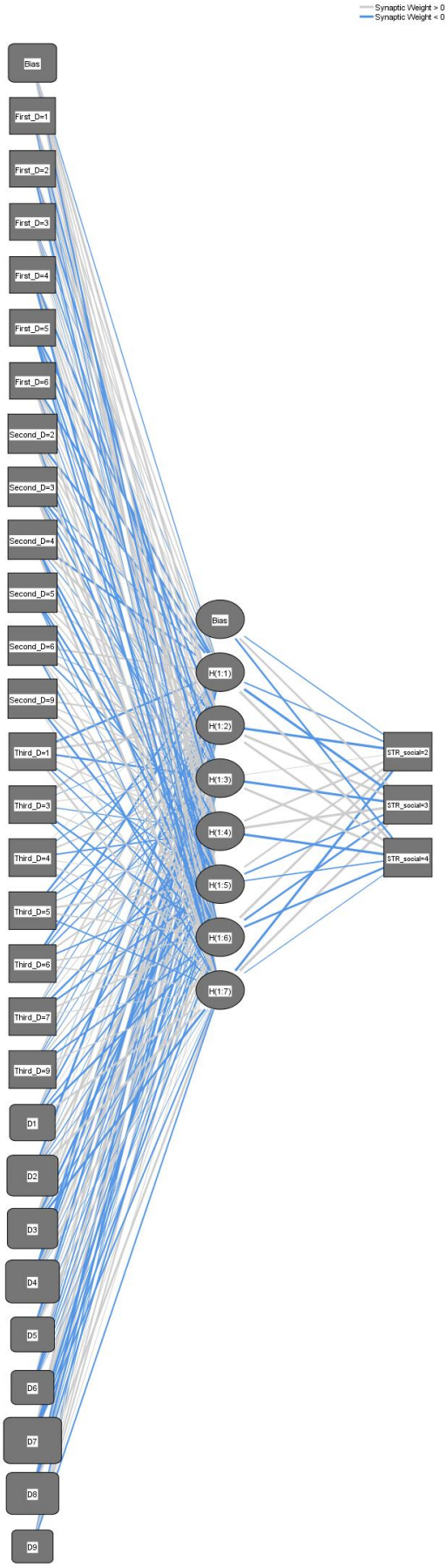
		N	Percent
Sample	Training	11	91.7%
	Testing	1	8.3%
Valid		12	100.0%
Excluded		92	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATIO N
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		28
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		7
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		3
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	.006
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	Training error ratio criterion (.001) achieved
	Training Time	0:00:00.00
Testing	Cross Entropy Error	7.895E-7
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

Parameter Estimates

		Predicted									
		Hidden Layer 1							Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	H(1:7)	[STR_social=2]	[STR_social=3]	[STR_social=4]
Input Layer	(Bias)	-.167	.916	.194	.253	.480	-.463	.443			
	[First_D=1]	.231	.143	.124	-.512	.498	-.029	-.200			
	[First_D=2]	.211	.544	-.557	.350	.035	-.436	-.059			
	[First_D=3]	-.072	.068	-.240	.428	-.033	.111	.007			
	[First_D=4]	.095	-.719	.098	.595	.205	.235	-.691			
	[First_D=5]	-.714	.123	-.496	.009	-.378	-.119	-.443			
	[First_D=6]	-.600	.429	.092	.216	-.161	.052	.478			
	[Second_D=2]	-.687	.444	.306	.161	-.234	-.311	.928			
	[Second_D=3]	-.217	-.651	-.115	-.424	.485	.578	.239			
	[Second_D=4]	-.853	.844	-.150	.128	-.473	-.792	.917			
	[Second_D=5]	.182	.270	.315	.217	-.470	-.454	-.137			
	[Second_D=6]	.504	-.055	.821	-.328	.099	.301	-.356			
	[Second_D=9]	.004	.359	.228	.313	.452	-.581	.159			
	[Third_D=1]	-1.009	.641	-.530	.222	-.222	-.277	.588			
	[Third_D=3]	.665	-.061	.110	-.180	.259	-.470	-.324			
	[Third_D=4]	.005	-.178	.372	-.313	.055	.269	-.022			
	[Third_D=5]	-.532	-.192	-.283	-.081	.477	.301	-.262			
	[Third_D=6]	-.648	-.270	-.267	.397	-.321	.270	.211			
	[Third_D=7]	.330	-.117	.110	-.518	-.472	.339	.088			
	[Third_D=9]	.346	-.155	-.090	.245	-.336	-.351	.166			
	D1	-.003	.605	-.373	.010	-.320	-.622	.611			

	D2	-.888	.087	-.032	.863	-.201	-.102	1.275			
	D3	.417	.126	.684	-.763	.274	-.255	-.867			
	D4	-1.311	-.896	-.286	1.090	-.088	.738	-.022			
	D5	.219	-.728	-.203	.161	-.140	.390	.003			
	D6	.860	-.075	-.332	-.202	-.201	-.071	-.012			
	D7	1.600	.100	.639	-1.034	-.290	-.420	-.349			
	D8	-1.337	.274	-.647	-.083	-.427	.065	.571			
	D9	-.166	-.119	.049	.337	.409	.041	-.325			
Hidden Layer 1	(Bias)								-.211	.550	-.512
	H(1:1)								-.295	-2.591	2.327
	H(1:2)								-1.851	1.757	.999
	H(1:3)								.045	-1.489	.953
	H(1:4)								.626	1.932	-1.784
	H(1:5)								.472	-.378	-.252
	H(1:6)								1.268	-.604	-.684
	H(1:7)								-1.289	1.678	-.135

Classification

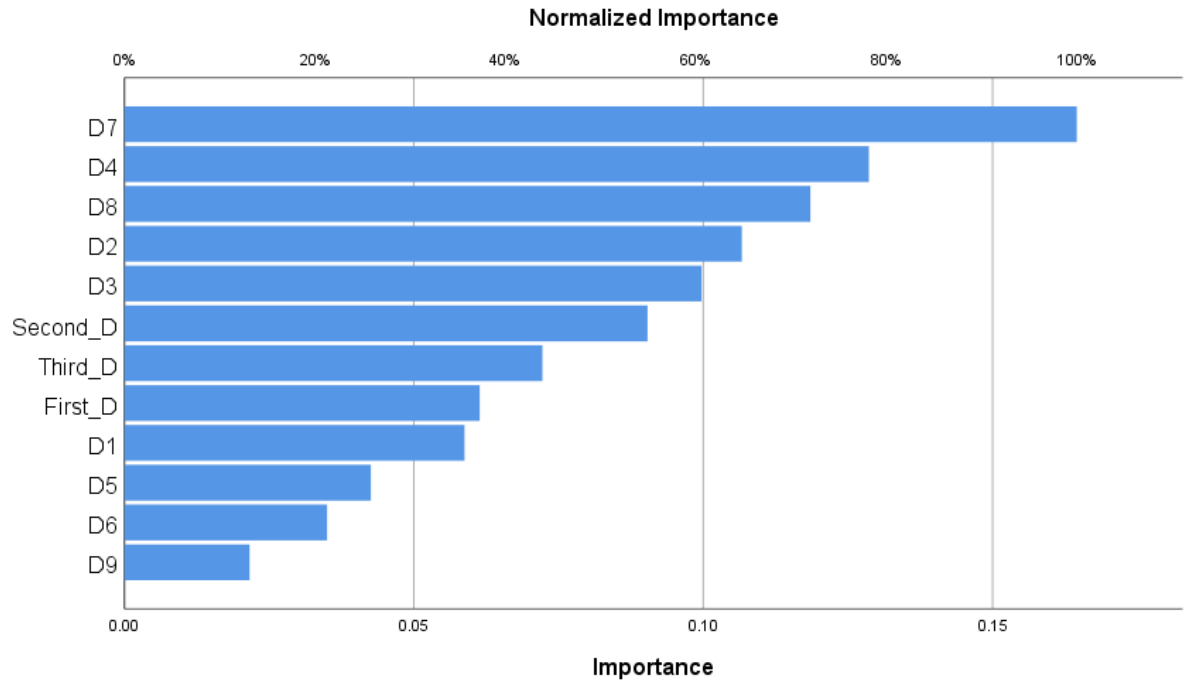
		Predicted			
Sample	Observed	mediocre option	good option	best option	Percent Correct
Training	mediocre option	2	0	0	100.0%
	good option	0	6	0	100.0%
	best option	0	0	3	100.0%
	Overall Percent	18.2%	54.5%	27.3%	100.0%
Testing	mediocre option	0	0	0	0.0%
	good option	0	1	0	100.0%
	best option	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.061	37.3%
Second discourse in text	.090	54.9%
Third discourse in text	.072	43.9%
CONTACT RESTRICTION	.059	35.7%

SANITATION AND HYGIENE	.107	64.8%
ISOLATION OF INFECTED	.100	60.6%
TOTAL ISOLATION	.129	78.2%
HEALTH CARE	.043	25.9%
VIRUS DISSEMINATION	.035	21.3%
LIFESTYLE CHANGES	.165	100.0%
RIGHTS AND FREEDOMS INFRINGEMENT	.119	72.0%
BUREAUCRATIC RESPONSE	.022	13.1%




```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 17:17:12
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.47
	Elapsed Time	00:00:00.47

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

Case Processing Summary

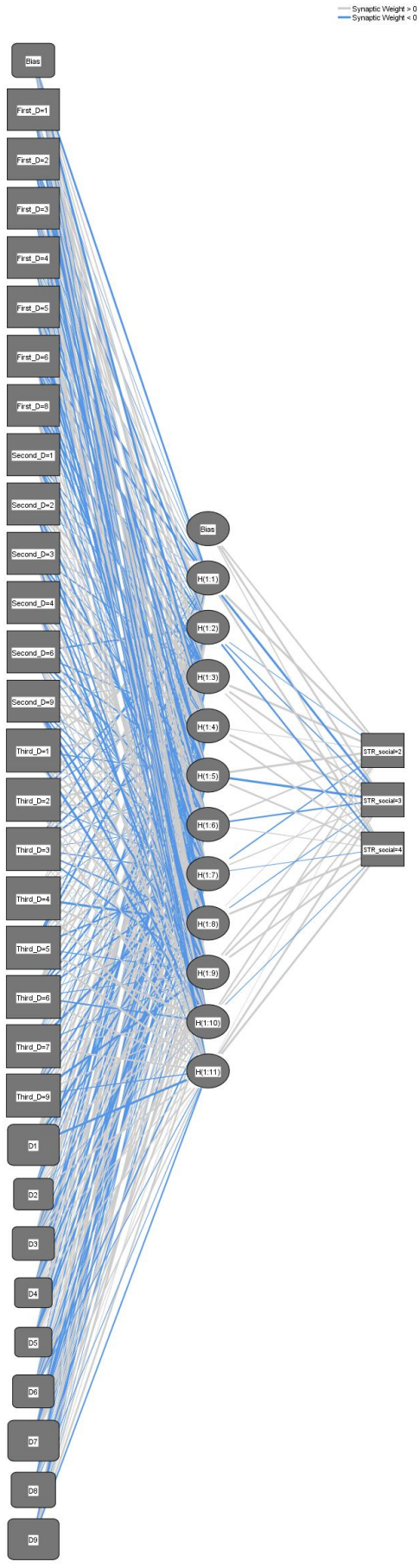
		N	Percent
Sample	Training	13	92.9%
	Testing	1	7.1%
Valid		14	100.0%
Excluded		90	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATIO N
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		30
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		11
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		3
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit


Synaptic Weight > 0
Synaptic Weight < 0
Bias
First_D=1
First_D=2
First_D=3
First_D=4
First_D=5
First_D=6
First_D=8
Second_D=1
Second_D=2
Second_D=3
Second_D=4
Second_D=6
Second_D=9
Third_D=1
Third_D=2
Third_D=3
Third_D=4
Third_D=5
Third_D=6
Third_D=7
Third_D=9
D1
D2
D3
D4
D5
D6
D7
D8
D9
Bias
H(1:1)
H(1:2)
H(1:3)
H(1:4)
H(1:5)
H(1:6)
H(1:7)
H(1:8)
H(1:9)
H(1:10)
H(1:11)
STR_social=2
STR_social=3
STR_social=4
Hidden layer activation function: Hyperbolic tangent
Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	14.480
	Percent Incorrect Predictions	61.5%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.03
Testing	Cross Entropy Error	.628
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted													
		Hidden Layer 1											Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	H(1:7)	H(1:8)	H(1:9)	H(1:10)	H(1:11)	[STR_social =2]	[STR_social =3]	[STR_social =4]
Input Layer	(Bias)	-.405	.211	.186	-.494	.319	.112	.320	-.098	.465	-.164	.055			
	[First_D=1]	-.031	.469	.411	.470	.124	-.273	.219	-.436	.482	-.394	-.184			
	[First_D=2]	-.050	-.388	.139	-.178	-.415	-.466	.289	-.014	.396	-.396	-.252			
	[First_D=3]	.185	.199	-.150	.289	-.393	.454	-.094	-.326	.224	.252	-.198			
	[First_D=4]	-.031	-.081	.082	.316	.477	-.056	-.206	-.010	.486	.345	-.193			
	[First_D=5]	-.359	-.047	-.420	.486	.188	.387	.322	-.384	-.396	-.080	.036			
	[First_D=6]	-.489	-.423	-.238	.290	-.269	.200	-.355	-.346	-.026	-.133	.201			
	[First_D=8]	.318	-.167	-.471	-.169	-.389	.071	.197	.107	-.195	.366	.080			
	[Second_D=1]	-.026	.089	-.250	-.205	-.174	-.379	-.092	.009	.265	.042	.206			
	[Second_D=2]	.327	-.062	.493	.262	-.056	-.070	-.455	.257	.388	-.301	-.124			
	[Second_D=3]	.078	.420	-.280	-.103	-.361	-.468	.375	.058	-.253	-.429	.452			
	[Second_D=4]	.124	.018	.498	.219	-.176	.391	.356	-.218	-.316	.282	.013			
	[Second_D=6]	.242	-.372	.036	-.293	-.323	-.410	-.199	.283	.156	.250	-.093			

	[Second_D=9]	.254	.377	-.042	.209	.428	-.095	-.250	-.253	-.476	-.454	.373			
	[Third_D=1]	.458	.421	.036	.322	-.243	.197	.096	.374	.380	-.491	.104			
	[Third_D=2]	.395	-.346	-.184	.393	.406	.477	-.131	.116	.434	.147	.467			
	[Third_D=3]	-.249	.353	-.409	-.369	-.089	-.078	-.211	-.257	-.294	.153	.136			
	[Third_D=4]	.101	.252	.024	.316	-.073	.059	.050	-.486	.415	.146	.496			
	[Third_D=5]	-.247	-.422	.448	-.014	-.086	.418	-.354	.098	-.159	.474	.473			
	[Third_D=6]	.277	.258	.319	-.263	-.379	-.294	-.346	-.066	-.117	-.306	.281			
	[Third_D=7]	.079	-.075	-.005	-.006	-.027	.277	-.495	.083	-.152	.238	.347			
	[Third_D=9]	.110	-.256	.465	-.136	.321	-.331	-.117	.164	-.481	.211	-.177			
	D1	.177	.199	.117	.445	.065	.318	-.456	-.279	.308	.327	-.487			
	D2	.023	-.424	.314	-.231	-.153	.089	.093	.203	.256	-.020	.297			
	D3	.471	.400	-.134	-.069	.255	-.219	.482	-.148	.399	.296	.145			
	D4	-.325	-.463	.331	-.344	.342	-.149	-.353	.154	.185	.242	.309			
	D5	-.093	.211	.316	-.287	.018	-.447	-.354	.289	.268	.039	.021			
	D6	-.073	.014	.169	-.240	.039	.325	-.194	-.030	.480	-.273	-.118			
	D7	.189	.197	-.318	.111	-.372	-.415	-.184	.319	.372	.318	.205			
	D8	.010	.215	-.236	-.145	-.121	-.009	.230	-.266	.337	.061	-.087			
	D9	.196	.443	-.070	-.498	-.079	.212	-.058	.442	.049	.376	-.279			
Hidden Layer 1	(Bias)												.347	.446	.185
	H(1:1)												.484	-.483	.448
	H(1:2)												-.079	-.209	-.347
	H(1:3)												.478	.413	.233
	H(1:4)												.081	.450	.356
	H(1:5)												.483	-.494	.357
	H(1:6)												.317	-.307	.123
	H(1:7)												-.228	.202	-.073
	H(1:8)												.022	-.129	.456
	H(1:9)												.313	.395	.396
	H(1:10)												.329	.258	-.089
	H(1:11)												.012	.423	.464

Classification

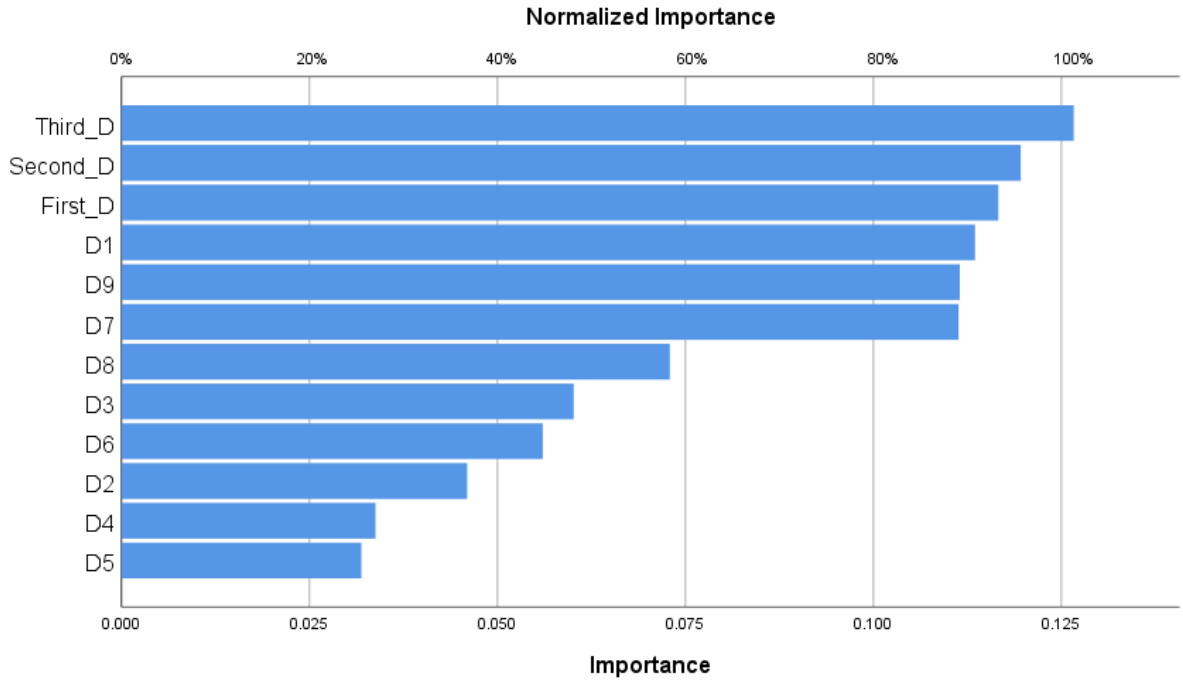
		Predicted			
Sample	Observed	mediocre option	good option	best option	Percent Correct
Training	mediocre option	1	2	0	33.3%
	good option	4	4	0	50.0%
	best option	1	1	0	0.0%
	Overall Percent	46.2%	53.8%	0.0%	38.5%

Testing	mediocre option	1	0	0	100.0%
	good option	0	0	0	0.0%
	best option	0	0	0	0.0%
	Overall Percent	100.0%	0.0%	0.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.117	92.1%
Second discourse in text	.120	94.4%
Third discourse in text	.127	100.0%
CONTACT RESTRICTION	.114	89.6%
SANITATION AND HYGIENE	.046	36.3%
ISOLATION OF INFECTED	.060	47.5%
TOTAL ISOLATION	.034	26.7%
HEALTH CARE	.032	25.2%
VIRUS DISSEMINATION	.056	44.2%
LIFESTYLE CHANGES	.111	87.9%
RIGHTS AND FREEDOMS INFRINGEMENT	.073	57.6%
BUREAUCRATIC RESPONSE	.111	88.0%




```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created	13-DEC-2020 17:17:17
Comments	

Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.42
	Elapsed Time	00:00:00.44

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

The following independent variables are constant in the training sample and are excluded from the analysis: D8.

Case Processing Summary

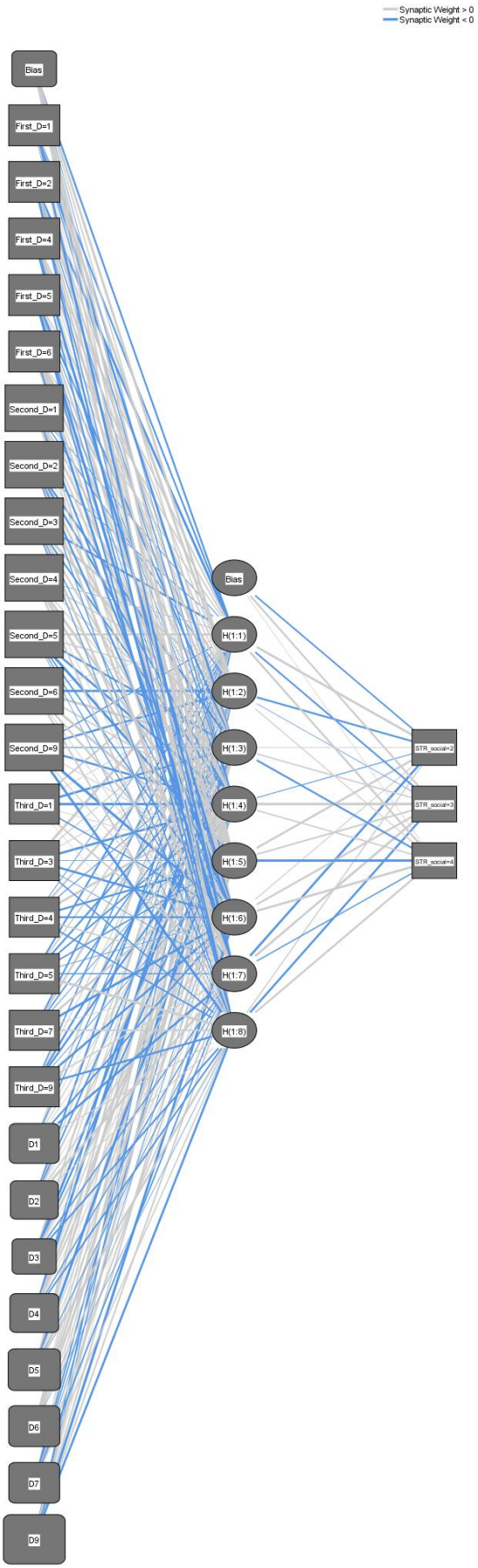
		N	Percent
Sample	Training	9	90.0%
	Testing	1	10.0%
Valid		10	100.0%
Excluded		94	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATIO N
		7	LIFESTYLE CHANGES
		8	BUREAUCRATI C RESPONSE

	Number of Units[a]	26
	Rescaling Method for Covariates	Standardized
Hidden Layer(s)	Number of Hidden Layers	1
	Number of Units in Hidden Layer 1[a]	8
	Activation Function	Hyperbolic tangent
Output Layer	Dependent Variables 1	Strategy of social protection
	Number of Units	3
	Activation Function	Softmax
	Error Function	Cross-entropy

a. Excluding the bias unit


Synaptic Weight > 0
Synaptic Weight < 0
Bias
First_D=1
First_D=2
First_D=4
First_D=5
First_D=6
Second_D=1
Second_D=2
Second_D=3
Second_D=4
Second_D=5
Second_D=6
Second_D=9
Third_D=1
Third_D=3
Third_D=4
Third_D=5
Third_D=7
Third_D=9
D1
D2
D3
D4
D5
D6
D7
D9
Bias
H(1:1)
H(1:2)
H(1:3)
H(1:4)
H(1:5)
H(1:6)
H(1:7)
H(1:8)
STR_social=2
STR_social=3
STR_social=4
Hidden layer activation function: Hyperbolic tangent
Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	7.223
	Percent Incorrect Predictions	11.1%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.02
Testing	Cross Entropy Error	.042
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted										
		Hidden Layer 1								Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	H(1:7)	H(1:8)	[STR_social =2]	[STR_social =3]	[STR_social =4]
Input Layer	(Bias)	-.349	.568	.176	-.036	.346	.583	.162	.291			
	[First_D=1]	-.320	.667	-.533	-.155	.027	.148	-.596	.243			
	[First_D=2]	-.581	.210	.439	-.139	.307	.384	-.143	-.393			
	[First_D=4]	.280	.277	.507	.076	.088	-.698	.021	-.264			
	[First_D=5]	.242	.120	-.398	-.086	.422	-.091	-.799	-.278			
	[First_D=6]	.161	.626	.444	.448	.151	.514	-.560	.083			
	[Second_D=1]	-.081	-.154	-.016	.438	.307	-.399	.252	.202			
	[Second_D=2]	-.093	.037	-.416	-.403	.515	-.414	.587	-.144			
	[Second_D=3]	-.465	.613	.814	-.328	.344	-.151	.528	-.134			
	[Second_D=4]	-.007	.207	.187	.126	.623	.653	.035	.293			
	[Second_D=5]	.467	.232	-.401	-.501	-.712	-.255	-.135	-.035			
	[Second_D=6]	.085	-.546	.611	.242	.614	.405	.060	.365			

	[Second_D=9]	-.183	-.447	-.102	-.447	.090	-.777	.112	-.595			
	[Third_D=1]	.347	.051	-.529	-.593	.049	-.205	.307	.005			
	[Third_D=3]	.670	.119	.061	-.524	-.015	-.492	-.042	-.234			
	[Third_D=4]	-.076	.486	-.102	.493	-.398	-.331	.215	-.271			
	[Third_D=5]	-.335	.226	-.338	-.291	-.243	-.053	-.170	.741			
	[Third_D=7]	-.302	.449	-.239	-.062	.496	-.552	.049	.293			
	[Third_D=9]	-.222	.097	-.385	-.430	-.076	-.488	.244	-.400			
	D1	.329	-.156	.001	.112	.041	-.321	-.497	.148			
	D2	-.400	.179	-.284	.330	.015	.258	.570	.119			
	D3	.377	.088	-.600	-.352	.562	.026	-.211	-.313			
	D4	-.148	-.820	.129	.596	.377	.054	-.179	-.294			
	D5	.282	.507	.007	-.767	.180	.080	-.101	.466			
	D6	.075	.207	.274	.564	.548	.064	.279	-.019			
	D7	.088	.140	-.276	-.185	-.057	.298	-.244	.191			
	D9	-.264	-.115	.631	.027	.300	-.611	.285	-.462			
Hidden Layer 1	(Bias)									-.280	.383	.008
	H(1:1)									.536	-.315	.435
	H(1:2)									-.351	-.031	.119
	H(1:3)									.072	.237	-.361
	H(1:4)									-.095	.718	.236
	H(1:5)									.453	.312	-.602
	H(1:6)									.107	.421	.542
	H(1:7)									-.510	.524	-.184
	H(1:8)									.157	-.448	.425

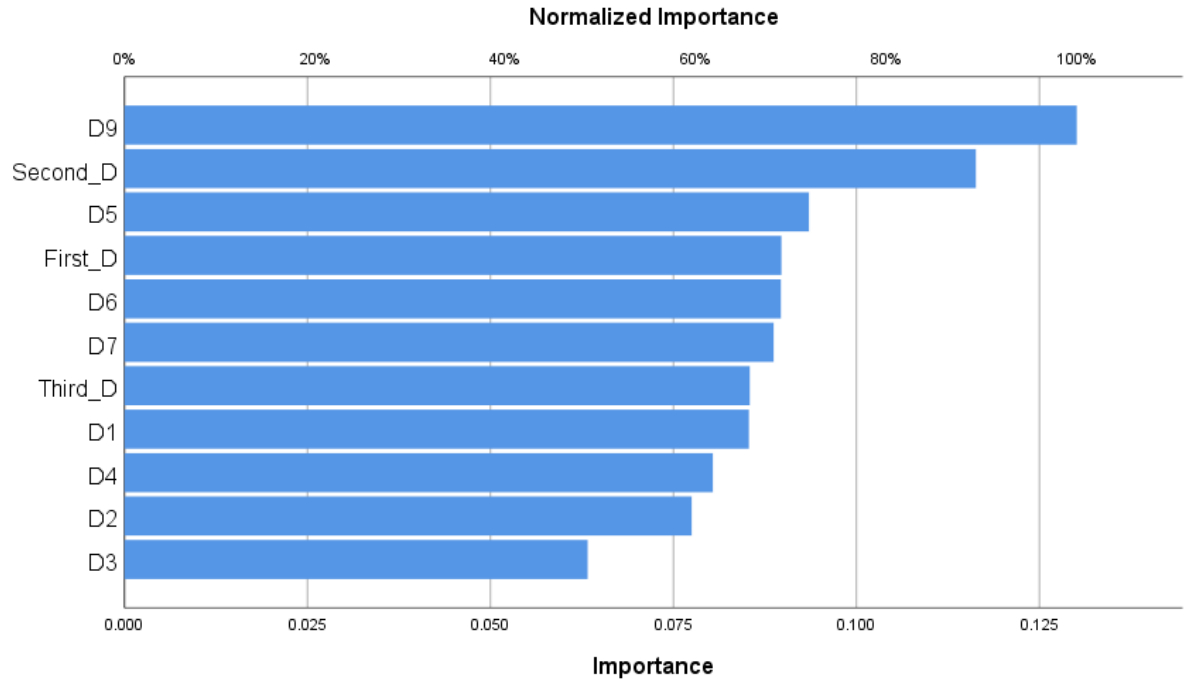
Classification

		Predicted			
Sample	Observed	mediocre option	good option	best option	Percent Correct
Training	mediocre option	2	1	0	66.7%
	good option	0	4	0	100.0%
	best option	0	0	2	100.0%
	Overall Percent	22.2%	55.6%	22.2%	88.9%
Testing	mediocre option	0	0	0	0.0%
	good option	0	1	0	100.0%
	best option	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.090	69.0%
Second discourse in text	.116	89.4%
Third discourse in text	.085	65.7%
CONTACT RESTRICTION	.085	65.6%
SANITATION AND HYGIENE	.077	59.6%
ISOLATION OF INFECTED	.063	48.6%
TOTAL ISOLATION	.080	61.8%
HEALTH CARE	.094	71.9%
VIRUS DISSEMINATION	.090	68.9%
LIFESTYLE CHANGES	.089	68.2%
BUREAUCRATIC RESPONSE	.130	100.0%




```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
```

```
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 17:17:23
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.45
	Elapsed Time	00:00:00.46

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

Case Processing Summary

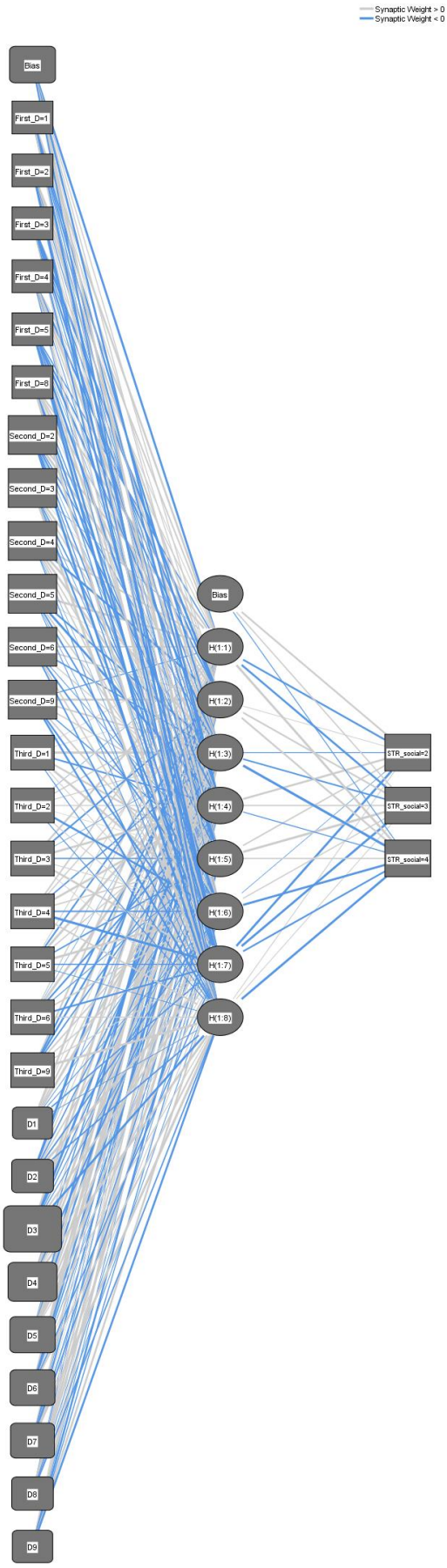
		N	Percent
Sample	Training	9	81.8%
	Testing	2	18.2%
Valid		11	100.0%
Excluded		93	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATIO N
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		28
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		8
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		3
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	8.572
	Percent Incorrect Predictions	55.6%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.03
Testing	Cross Entropy Error	.842
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted										
		Hidden Layer 1								Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	H(1:7)	H(1:8)	[STR_social =2]	[STR_social =3]	[STR_social =4]
Input Layer	(Bias)	-.500	.157	.184	-.431	.033	.560	.099	-.278			
	[First_D=1]	.428	.115	-.373	-.356	-.152	-.011	-.763	.270			
	[First_D=2]	.269	.369	.427	-.104	.174	.046	-.388	-.386			
	[First_D=3]	.077	-.644	-.198	-.372	-.126	.044	-.310	.151			
	[First_D=4]	.124	-.397	.834	.191	-.071	.005	.334	-.089			
	[First_D=5]	-.202	-.286	-.465	-.011	-.512	.384	-.511	-.681			
	[First_D=8]	.372	.283	.438	.033	-.160	-.381	-.174	.594			
	[Second_D=2]	.418	.549	-.181	-.310	-.010	-.229	-.143	-.637			
	[Second_D=3]	-.003	.007	.430	.231	-.229	-.060	-.377	.793			
	[Second_D=4]	.336	-.484	.562	.476	.211	.251	-.009	-.122			
	[Second_D=5]	.606	.034	-.370	-.566	.233	-.275	-.013	-.078			
	[Second_D=6]	.340	.206	-.235	.133	-.076	-.306	.238	-.268			
	[Second_D=9]	-.150	.483	.305	.214	-.182	.302	-.345	-.410			

	[Third_D=1]	.033	.032	.850	-.312	.397	.517	.083	-.110			
	[Third_D=2]	-.009	.201	.102	.129	.003	-.463	.101	-.115			
	[Third_D=3]	.397	-.335	-.026	.534	-.204	.086	.428	.035			
	[Third_D=4]	.263	.193	-.244	.503	.228	-.271	-.828	.303			
	[Third_D=5]	.085	-.310	.609	.194	-.242	.611	-.201	-.048			
	[Third_D=6]	.155	-.004	.655	-.337	-.103	.241	-.377	.158			
	[Third_D=9]	.326	-.367	-.394	-.233	.261	.226	.131	.601			
	D1	.583	.045	.292	.697	-.058	-.082	-.235	-.049			
	D2	-.884	-.047	.109	-.210	.256	-.259	.807	-.241			
	D3	.609	.456	-.778	-.218	-.101	-.098	.387	-.533			
	D4	.183	-.199	.641	.480	-.328	.426	.069	.546			
	D5	-.489	.633	-.414	.437	.407	.450	.292	.116			
	D6	.655	.878	-.438	-.220	-.052	.057	-.212	.361			
	D7	.481	-.029	-.323	.013	-.203	-.256	.093	.769			
	D8	-.038	-.099	.327	.595	.488	-.075	-.076	-.232			
	D9	.089	.054	.789	-.061	-.417	-.149	.396	-.428			
Hidden Layer	(Bias)									.377	.210	-.109
1	H(1:1)									-.385	-.445	.600
	H(1:2)									.057	.336	.377
	H(1:3)									-.118	-.280	-.888
	H(1:4)									.455	.225	-.133
	H(1:5)									.247	.601	.205
	H(1:6)									-.035	.189	-.506
	H(1:7)									-.554	-.562	-.349
	H(1:8)									.081	.077	-.593

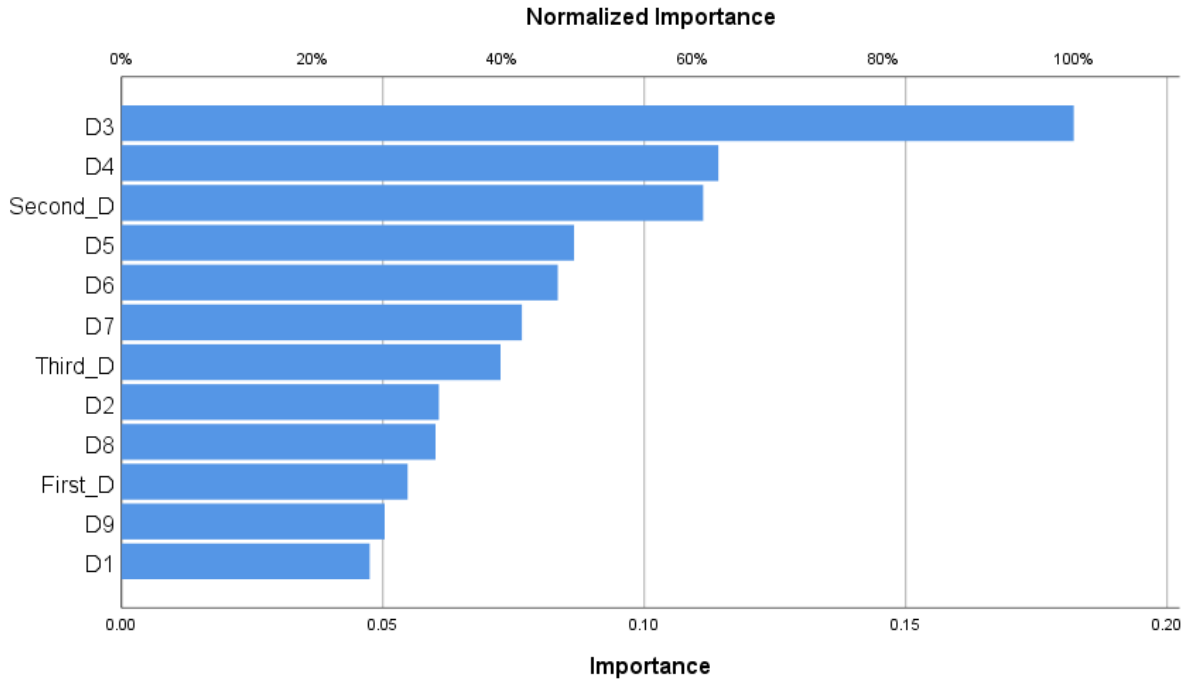
Classification

		Predicted			
Sample	Observed	mediocre option	good option	best option	Percent Correct
Training	mediocre option	1	1	0	50.0%
	good option	3	2	1	33.3%
	best option	0	0	1	100.0%
	Overall Percent	44.4%	33.3%	22.2%	44.4%
Testing	mediocre option	1	0	0	100.0%
	good option	0	0	0	0.0%
	best option	0	0	1	100.0%
	Overall Percent	50.0%	0.0%	50.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.055	30.1%
Second discourse in text	.111	61.1%
Third discourse in text	.073	39.8%
CONTACT RESTRICTION	.047	26.1%
SANITATION AND HYGIENE	.061	33.3%
ISOLATION OF INFECTED	.182	100.0%
TOTAL ISOLATION	.114	62.7%
HEALTH CARE	.087	47.5%
VIRUS DISSEMINATION	.083	45.8%
LIFESTYLE CHANGES	.077	42.0%
RIGHTS AND FREEDOMS INFRINGEMENT	.060	33.0%
BUREAUCRATIC RESPONSE	.050	27.6%




```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
```

```
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 17:17:30
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.45
	Elapsed Time	00:00:00.48

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

Case Processing Summary

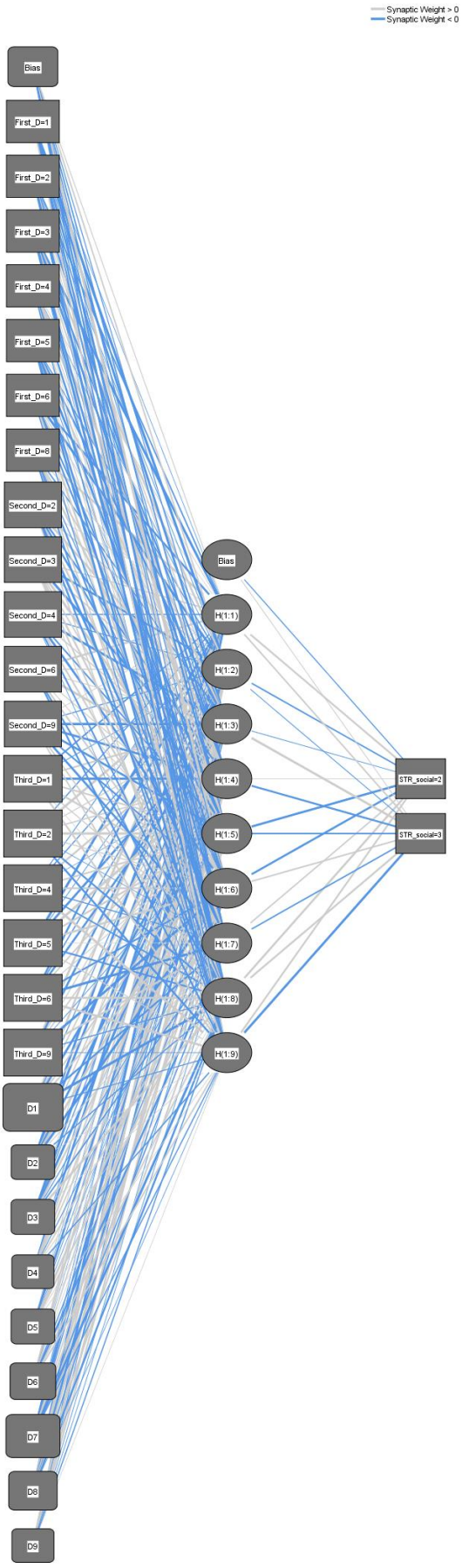
		N	Percent
Sample	Training	9	81.8%
	Testing	2	18.2%
Valid		11	100.0%
Excluded		93	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATIO N
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		27
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		9
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		2
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	5.982
	Percent Incorrect Predictions	44.4%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.03
Testing	Cross Entropy Error	1.080
	Percent Incorrect Predictions	50.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted										
		Hidden Layer 1									Output Layer	
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	H(1:7)	H(1:8)	H(1:9)	[STR_social=2]	[STR_social=3]
Input Layer	(Bias)	.102	.222	-.115	-.195	-.173	.493	-.098	-.286	-.198		
	[First_D=1]	-.028	-.498	-.421	-.092	-.329	-.099	-.303	-.198	.231		
	[First_D=2]	-.201	-.056	.142	-.372	.178	.061	-.129	-.473	-.005		
	[First_D=3]	-.450	.358	-.269	-.383	.218	.020	-.325	-.421	.000		
	[First_D=4]	.043	-.050	.470	.328	.085	-.305	.019	.119	-.162		
	[First_D=5]	.005	-.145	-.330	.268	-.435	-.069	.080	-.329	-.388		
	[First_D=6]	-.343	-.457	.107	.160	-.261	-.263	.334	.070	-.134		
	[First_D=8]	.402	.079	-.194	.250	.368	-.116	-.289	.193	-.259		
	[Second_D=2]	.024	.226	.400	-.296	-.327	.320	-.451	-.314	.176		
	[Second_D=3]	.192	-.373	.215	-.458	.457	.194	.315	.262	.083		
	[Second_D=4]	-.182	-.129	-.460	.183	-.241	-.422	.278	-.262	-.031		
	[Second_D=6]	.372	.126	.071	.475	.120	.084	.262	-.279	-.300		
	[Second_D=9]	.054	-.145	-.477	-.409	-.384	-.263	-.399	.211	.238		
	[Third_D=1]	-.238	-.077	.291	-.423	.254	.326	.152	.010	.300		

	[Third_D=2]	-.169	.453	.110	.194	.472	.125	-.033	-.301	-.326		
	[Third_D=4]	-.098	-.167	.324	-.018	.268	.277	-.142	-.230	.457		
	[Third_D=5]	-.475	-.074	-.412	.496	.310	.384	.003	-.266	.122		
	[Third_D=6]	-.356	-.177	-.369	.220	.105	-.297	-.482	.405	.416		
	[Third_D=9]	.426	-.385	.135	.197	-.067	-.468	.358	-.145	-.045		
	D1	.358	-.118	.204	-.417	.245	.264	-.306	-.500	-.116		
	D2	-.443	-.435	.197	-.387	.423	-.484	.096	-.176	.024		
	D3	.068	-.479	-.122	-.450	.304	-.111	-.220	.416	.011		
	D4	-.092	-.373	.241	.290	.197	-.102	.239	.049	-.185		
	D5	.088	-.022	-.395	-.064	-.034	.409	.301	.009	.027		
	D6	.179	.364	-.001	.195	.016	-.141	-.338	.247	.230		
	D7	-.036	-.185	-.438	-.148	.199	.289	-.185	-.447	-.160		
	D8	-.399	.440	.346	-.413	.399	-.171	.258	-.319	-.028		
	D9	-.138	.484	-.105	.413	.266	-.049	-.048	-.156	.013		
Hidden Layer	(Bias)										-.131	.076
1	H(1:1)										.310	.248
	H(1:2)										-.216	-.087
	H(1:3)										-.067	.417
	H(1:4)										.039	-.316
	H(1:5)										-.406	-.233
	H(1:6)										-.362	.246
	H(1:7)										.222	-.210
	H(1:8)										.381	.326
	H(1:9)										.301	-.435

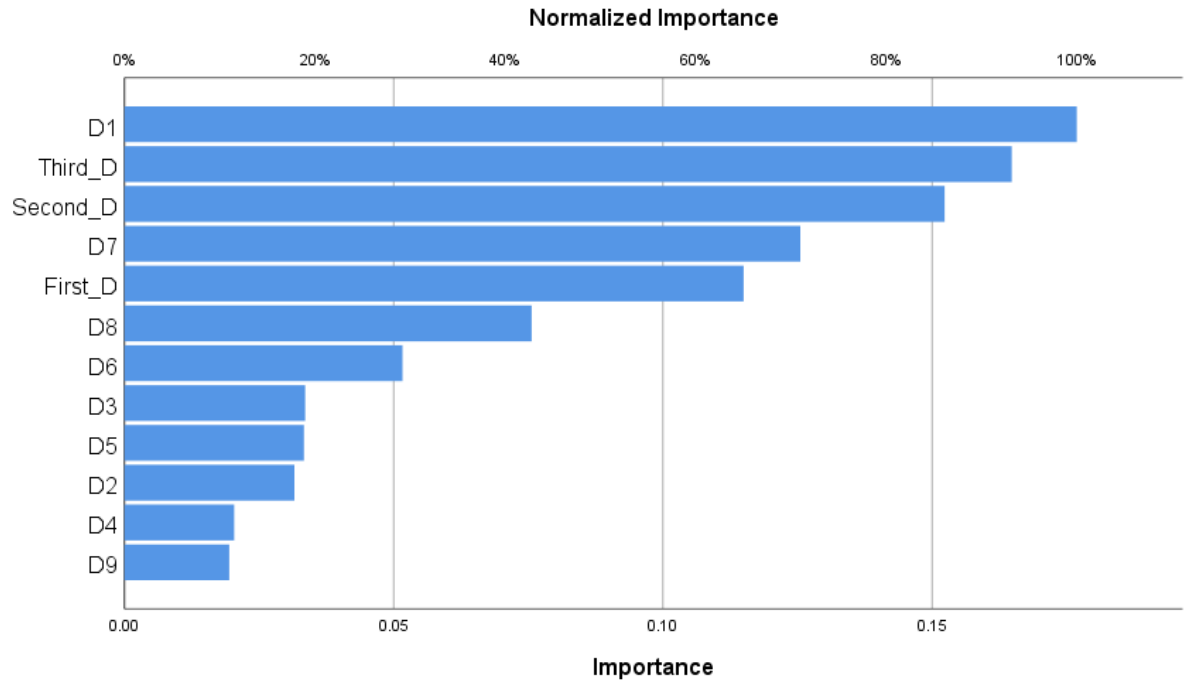
Classification

Sample	Observed	Predicted		Percent Correct
		mediocre option	good option	
Training	mediocre option	0	2	0.0%
	good option	2	5	71.4%
	Overall Percent	22.2%	77.8%	55.6%
Testing	mediocre option	0	1	0.0%
	good option	0	1	100.0%
	Overall Percent	0.0%	100.0%	50.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.115	65.0%
Second discourse in text	.152	86.1%
Third discourse in text	.165	93.2%
CONTACT RESTRICTION	.177	100.0%
SANITATION AND HYGIENE	.032	17.8%
ISOLATION OF INFECTED	.034	19.0%
TOTAL ISOLATION	.020	11.5%
HEALTH CARE	.033	18.8%
VIRUS DISSEMINATION	.052	29.2%
LIFESTYLE CHANGES	.126	71.0%
RIGHTS AND FREEDOMS INFRINGEMENT	.076	42.7%
BUREAUCRATIC RESPONSE	.019	11.0%




```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
```

```
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 17:17:39
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.41
	Elapsed Time	00:00:00.48

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

Case Processing Summary

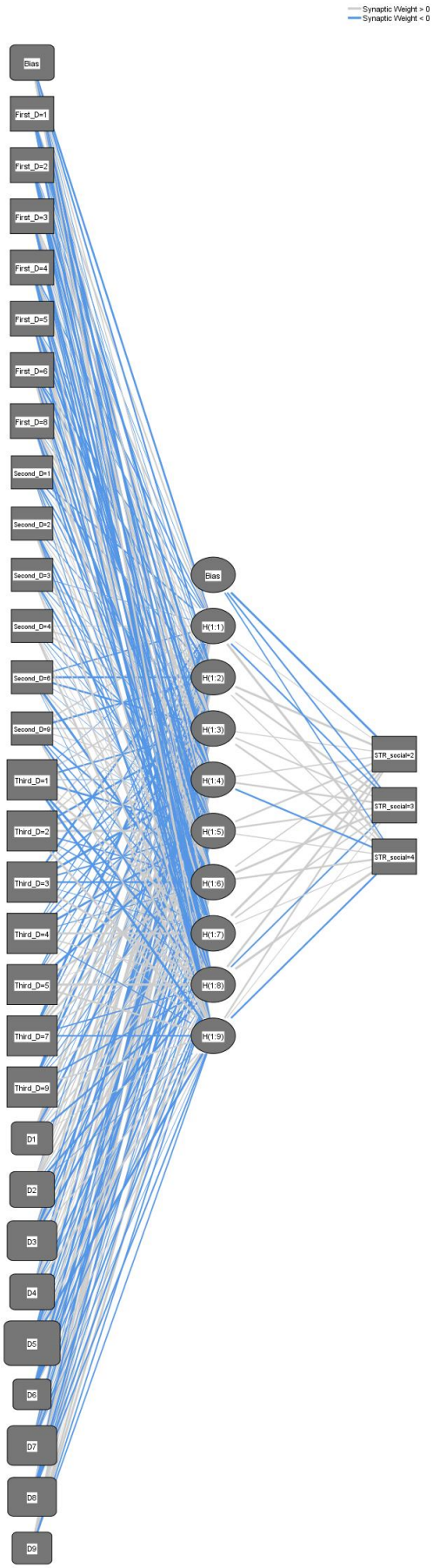
		N	Percent
Sample	Training	12	92.3%
	Testing	1	7.7%
Valid		13	100.0%
Excluded		91	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATIO N
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		29
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		9
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		3
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	10.635
	Percent Incorrect Predictions	41.7%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.04
Testing	Cross Entropy Error	.668
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted											
		Hidden Layer 1									Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	H(1:7)	H(1:8)	H(1:9)	[STR_social =2]	[STR_social =3]	[STR_social =4]
Input Layer	(Bias)	-.454	-.364	.207	-.071	.290	-.828	.165	-.595	.473			
	[First_D=1]	.317	-.058	-.930	-.509	-.205	-.152	.127	-.260	-.248			
	[First_D=2]	-.042	-.149	.708	-.508	.234	-.745	-.080	-1.081	-.115			
	[First_D=3]	.321	.087	.196	.419	-.042	.175	-.806	-.353	-.289			
	[First_D=4]	-.264	-.049	.378	.628	.025	-.413	-.314	.257	-.856			
	[First_D=5]	-.146	.167	-.324	-.404	-.391	.364	.496	-.146	-.413			
	[First_D=6]	-.213	-.530	.074	-.426	.408	.182	-.506	-.163	.398			
	[First_D=8]	.125	-.043	.417	.216	-.581	.647	-.518	-.325	.042			
	[Second_D=1]	-.315	-.280	.013	-.318	-.222	.067	-.212	.210	-.117			
	[Second_D=2]	.022	.201	-.137	.146	.082	-.457	-.185	-.317	.583			
	[Second_D=3]	-.067	.406	-.057	-.157	.083	-.348	-.086	.051	.301			
	[Second_D=4]	.145	.335	.355	-.275	-.091	-.060	.058	.142	.563			
	[Second_D=6]	-.320	-.527	-.458	-.012	-.031	.263	-.672	.232	-.054			

	[Second_D=9]	.315	-.493	.349	.174	-.005	-.384	-.194	-.406	.343			
	[Third_D=1]	-.072	.331	-.379	-.064	-.497	.024	.627	-.666	-.831			
	[Third_D=2]	.279	.309	-.569	.699	.602	-.296	-.212	-.114	.799			
	[Third_D=3]	-.567	.100	-.329	-.786	-.315	-.392	-.074	.590	.164			
	[Third_D=4]	-.189	-.066	-.332	-.264	-.554	-.148	.452	.265	-.195			
	[Third_D=5]	-.249	-.194	.254	.080	-.628	.735	.058	.746	.417			
	[Third_D=7]	-.765	-.212	.276	.759	.601	.366	.270	-.294	-.358			
	[Third_D=9]	-.265	-.668	-.066	-.038	-.171	-.098	.310	-.343	.323			
	D1	.455	.657	-.031	-.508	.402	-.005	.299	-.460	.095			
	D2	-.168	.477	.173	.159	.435	.179	-.120	-.526	-.082			
	D3	.409	-.384	.524	-.454	-.358	.446	-.519	.046	.267			
	D4	-.299	.391	-.300	.150	.205	.099	-.323	-.094	.463			
	D5	.110	-.677	.037	-.378	-.222	-.026	-.131	.302	-.612			
	D6	.366	.235	-.687	.161	-.886	-.178	-.435	-.283	.165			
	D7	.365	-.519	.158	-.144	-.370	.200	-.068	-.359	-.047			
	D8	.294	-.436	.529	.289	-.477	-.181	-.240	-.382	-.316			
	D9	.520	.525	.151	.224	.030	.620	.662	-.299	-.285			
Hidden Layer 1	(Bias)										-.563	-.333	-.256
	H(1:1)										.118	-.345	.936
	H(1:2)										.629	.482	.207
	H(1:3)										.162	.326	.439
	H(1:4)										.232	.428	-.394
	H(1:5)										.433	.395	.177
	H(1:6)										.241	.598	.428
	H(1:7)										.815	.313	.155
	H(1:8)										.577	-.326	.902
	H(1:9)										.403	.105	-.405

Classification

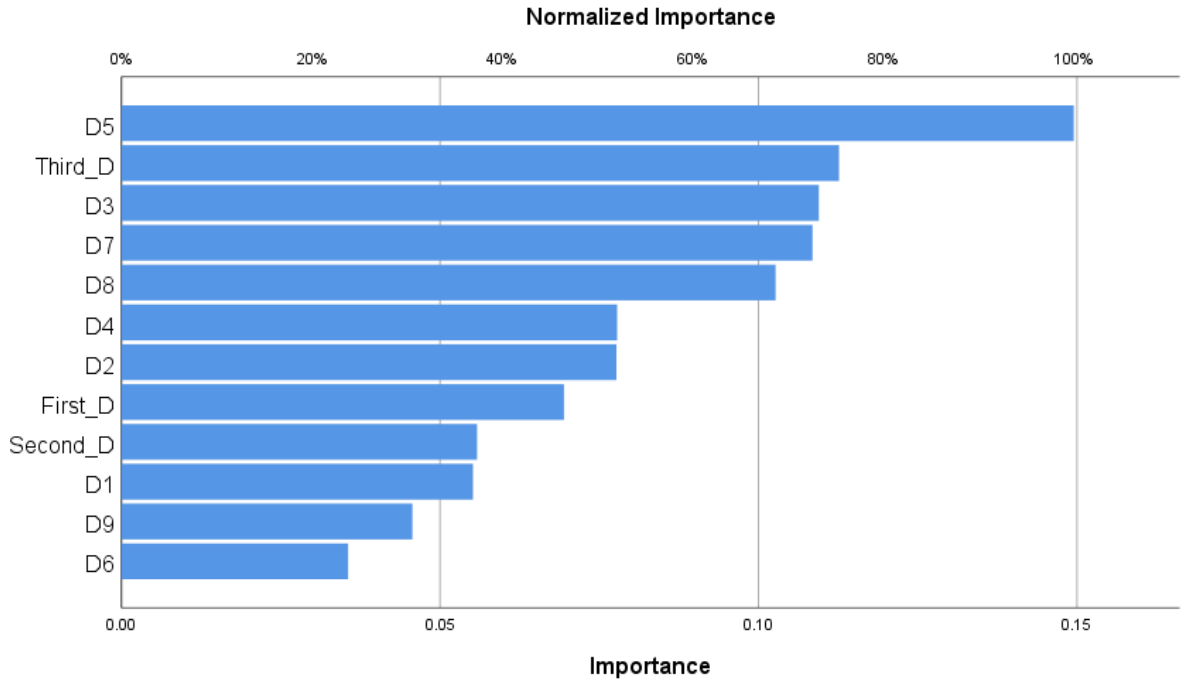
		Predicted			
Sample	Observed	mediocre option	good option	best option	Percent Correct
Training	mediocre option	1	1	2	25.0%
	good option	1	6	0	85.7%
	best option	0	1	0	0.0%
	Overall Percent	16.7%	66.7%	16.7%	58.3%
Testing	mediocre option	0	0	0	0.0%
	good option	0	0	0	0.0%
	best option	0	0	1	100.0%

Overall Percent	0.0%	0.0%	100.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.069	46.5%
Second discourse in text	.056	37.3%
Third discourse in text	.113	75.3%
CONTACT RESTRICTION	.055	36.9%
SANITATION AND HYGIENE	.078	52.0%
ISOLATION OF INFECTED	.109	73.2%
TOTAL ISOLATION	.078	52.1%
HEALTH CARE	.149	100.0%
VIRUS DISSEMINATION	.036	23.8%
LIFESTYLE CHANGES	.108	72.6%
RIGHTS AND FREEDOMS INFRINGEMENT	.103	68.7%
BUREAUCRATIC RESPONSE	.046	30.5%



```
*Multilayer Perceptron Network.
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 17:17:49
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.47
	Elapsed Time	00:00:00.45

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

Case Processing Summary

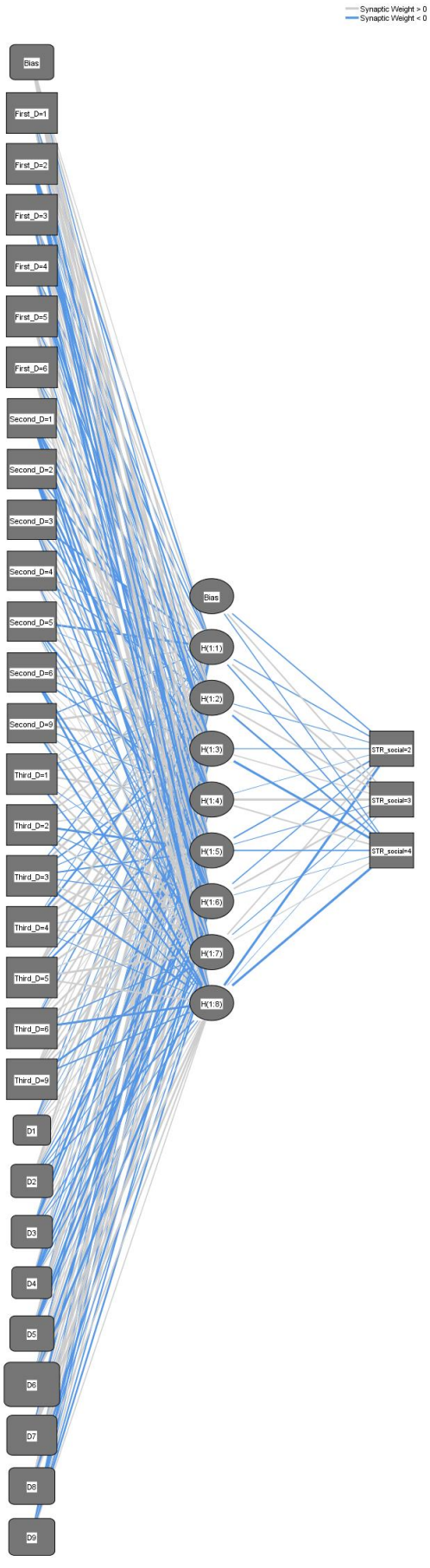
		N	Percent
Sample	Training	12	92.3%
	Testing	1	7.7%
Valid		13	100.0%
Excluded		91	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATIO N
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		29
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		8
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		3
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	11.794
	Percent Incorrect Predictions	50.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.03
Testing	Cross Entropy Error	.149
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

		Predicted										
		Hidden Layer 1								Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	H(1:7)	H(1:8)	[STR_social =2]	[STR_social =3]	[STR_social =4]
Input Layer	(Bias)	.109	.343	-.184	.603	.439	.647	.059	.618			
	[First_D=1]	-.430	.209	.491	.232	-.033	-.428	.274	.118			
	[First_D=2]	.229	-.379	-.770	-.061	-.087	-.583	-.680	-.419			
	[First_D=3]	-.152	.488	-.472	.424	.330	.254	-.065	-.655			
	[First_D=4]	-.285	.397	.056	-.618	-.510	-.138	.261	.396			
	[First_D=5]	.077	-.261	.086	.046	.038	-.218	.178	.529			
	[First_D=6]	.194	-.207	.265	-.263	.115	.376	.064	.381			
	[Second_D=1]	.156	-.050	-.395	-.466	.061	-.640	-.408	-.519			
	[Second_D=2]	.454	-.346	.513	-.045	-.623	-.309	-.334	-.092			
	[Second_D=3]	-.417	.241	-.411	.190	.378	-.363	.434	-.285			
	[Second_D=4]	-.103	-.239	-.072	.139	.002	.069	-.249	.298			
	[Second_D=5]	-.545	-.049	.448	.348	-.481	-.137	-.140	.083			
	[Second_D=6]	.390	.287	-.197	-.324	.064	.017	-.481	-.550			

	[Second_D=9]	-.213	.543	.668	-.165	-.054	.173	.493	-.451			
	[Third_D=1]	.167	-.103	.213	.406	.009	-.076	.401	-.341			
	[Third_D=2]	.362	.368	-.009	.166	-.540	-.166	.472	-.188			
	[Third_D=3]	-.211	.620	-.334	-.127	-.327	-.142	.308	-.432			
	[Third_D=4]	-.057	-.464	.662	.636	.337	-.011	.318	-.099			
	[Third_D=5]	.397	.692	-.145	-.400	.471	.223	.531	.356			
	[Third_D=6]	-.021	-.255	.390	.047	.412	.355	-.201	-.554			
	[Third_D=9]	.251	.163	.428	.274	.441	.356	-.483	-.261			
	D1	-.199	-.095	.447	-.063	-.023	.224	.094	.005			
	D2	.509	.184	.062	.379	-.138	-.311	-.126	-.276			
	D3	-.145	.326	-.552	-.362	.087	.356	-.216	-.130			
	D4	.474	-.059	-.255	-.021	-.513	-.274	-.255	.274			
	D5	-.091	.622	.482	-.068	-.622	-.650	-.060	.069			
	D6	-.235	.348	.137	.339	-.485	.431	-.740	.529			
	D7	.153	-.641	.024	.352	-.053	.605	.579	.463			
	D8	-.214	.483	.054	.481	.240	-.483	-.172	.301			
	D9	-.515	-.153	-.400	-.131	.292	-.305	-.397	.173			
Hidden Layer 1	(Bias)									-.225	.300	-.173
	H(1:1)									-.200	.403	-.244
	H(1:2)									-.117	.369	-.409
	H(1:3)									-.130	.178	-.695
	H(1:4)									-.037	.543	.290
	H(1:5)									-.279	-.093	-.256
	H(1:6)									-.196	.392	-.023
	H(1:7)									.276	-.137	.139
	H(1:8)									-.744	-.010	-.748

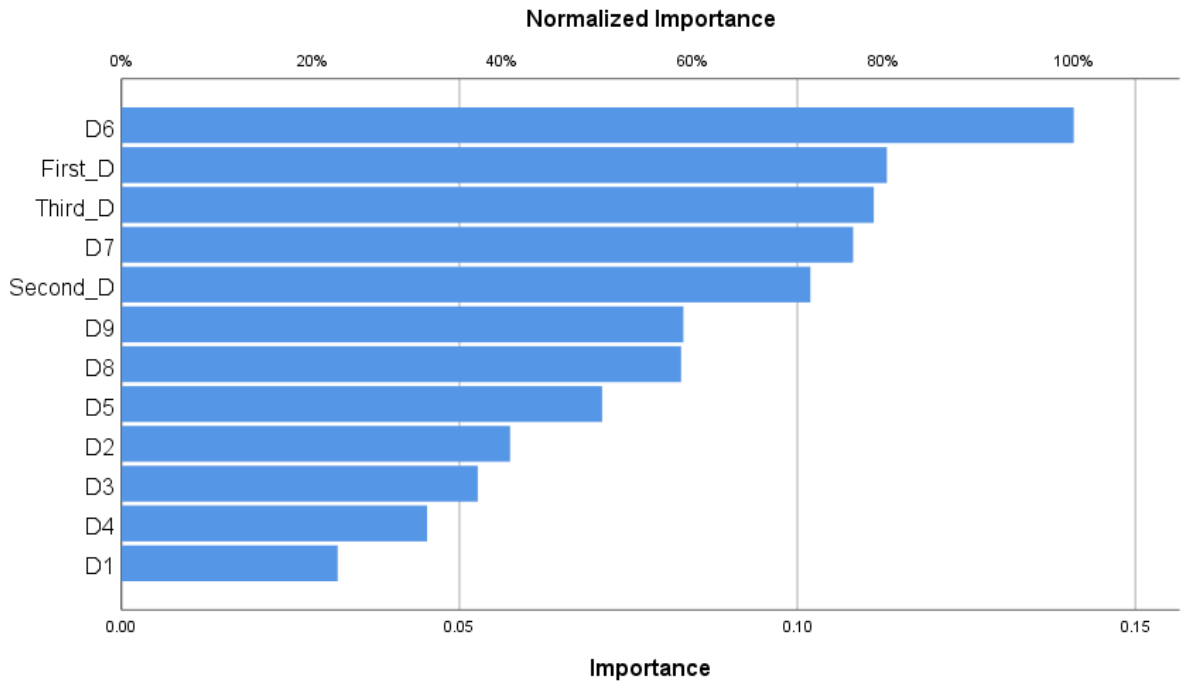
Classification

Sample	Observed	Predicted			
		mediocre option	good option	best option	Percent Correct
Training	mediocre option	0	4	0	0.0%
	good option	0	6	0	100.0%
	best option	1	1	0	0.0%
	Overall Percent	8.3%	91.7%	0.0%	50.0%
Testing	mediocre option	0	0	0	0.0%
	good option	0	1	0	100.0%
	best option	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.113	80.4%
Second discourse in text	.102	72.3%
Third discourse in text	.111	79.0%
CONTACT RESTRICTION	.032	22.7%
SANITATION AND HYGIENE	.057	40.8%
ISOLATION OF INFECTED	.053	37.4%
TOTAL ISOLATION	.045	32.1%
HEALTH CARE	.071	50.5%
VIRUS DISSEMINATION	.141	100.0%
LIFESTYLE CHANGES	.108	76.8%
RIGHTS AND FREEDOMS INFRINGEMENT	.083	58.8%
BUREAUCRATIC RESPONSE	.083	59.0%



*Multilayer Perceptron Network.

```
MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6
D7 D8 D9
 /RESCALE COVARIATE=STANDARDIZED
  /PARTITION  TRAINING=7  TESTING=3  HOLDOUT=0
  /ARCHITECTURE   AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
  /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
  /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
  /PLOT NETWORK
  /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
 /MISSING USERMISSING=EXCLUDE .
```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 17:18:44
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Sience\Quarantine definition survey\SPSS\NN_EN_covid_nominal_9D.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax		MLP STR_social (MLEVEL=O) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9 /RESCALE COVARIATE=STANDARDIZED /PARTITION TRAINING=7 TESTING=3 HOLDOUT=0 /ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50) /CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE LAMBDAINITIAL=0.0000005 SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000 /PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE /PLOT NETWORK /STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15) MAXEPOCHS=AUTO ERRORCHANGE=1.0E-4 ERRORRATIO=0.001 /MISSING USERMISSING=EXCLUDE .
Resources	Processor Time	00:00:00.42
	Elapsed Time	00:00:00.40

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample. These cases are excluded from the analysis.

Case Processing Summary

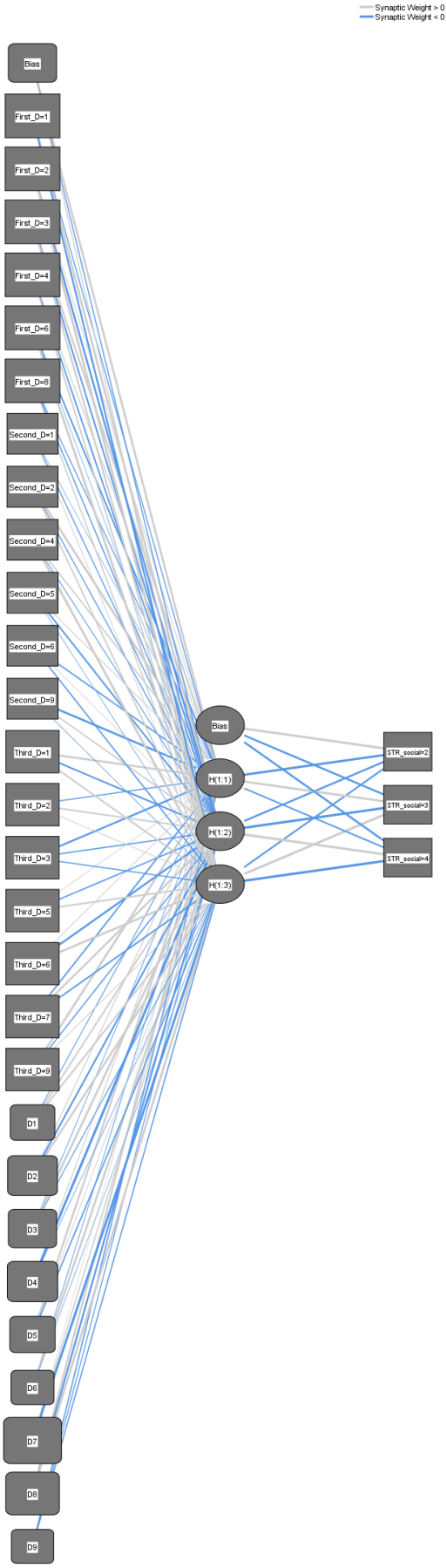
		N	Percent
Sample	Training	13	92.9%
	Testing	1	7.1%
Valid		14	100.0%
Excluded		90	
Total		104	

Network Information

Input Layer	Factors	1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATIO N
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

		9	BUREAUCRATIC RESPONSE
	Number of Units[a]		28
	Rescaling Method for Covariates		Standardized
Hidden Layer(s)	Number of Hidden Layers		1
	Number of Units in Hidden Layer 1[a]		3
	Activation Function		Hyperbolic tangent
Output Layer	Dependent Variables	1	Strategy of social protection
	Number of Units		3
	Activation Function		Softmax
	Error Function		Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent

Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	.588
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error[a]
	Training Time	0:00:00.02
Testing	Cross Entropy Error	.010
	Percent Incorrect Predictions	0.0%

Dependent Variable: Strategy of social protection

a. Error computations are based on the testing sample.

Parameter Estimates

					Predicted		
		Hidden Layer 1			Output Layer		
Predictor		H(1:1)	H(1:2)	H(1:3)	[STR_social=2]	[STR_social=3]	[STR_social=4]
Input Layer	(Bias)	.958	-.386	.364			
	[First_D=1]	-.344	1.126	-.655			
	[First_D=2]	.226	-.723	1.572			
	[First_D=3]	.680	-.576	.676			
	[First_D=4]	.344	-.531	.542			
	[First_D=6]	-.561	-.049	1.522			
	[First_D=8]	-.344	-.412	.447			
	[Second_D=1]	-.036	-.369	.165			
	[Second_D=2]	1.409	-.360	.519			
	[Second_D=4]	.502	-.285	1.427			
	[Second_D=5]	.272	-.589	-.063			
	[Second_D=6]	-.497	.064	-.458			
	[Second_D=9]	-.889	.506	-.083			
	[Third_D=1]	.997	-.616	.610			
	[Third_D=2]	-.390	.595	.193			
	[Third_D=3]	-.720	-.440	-.413			
	[Third_D=5]	.120	-.468	.637			
	[Third_D=6]	.248	-.798	1.203			
	[Third_D=7]	-.527	.878	-.544			

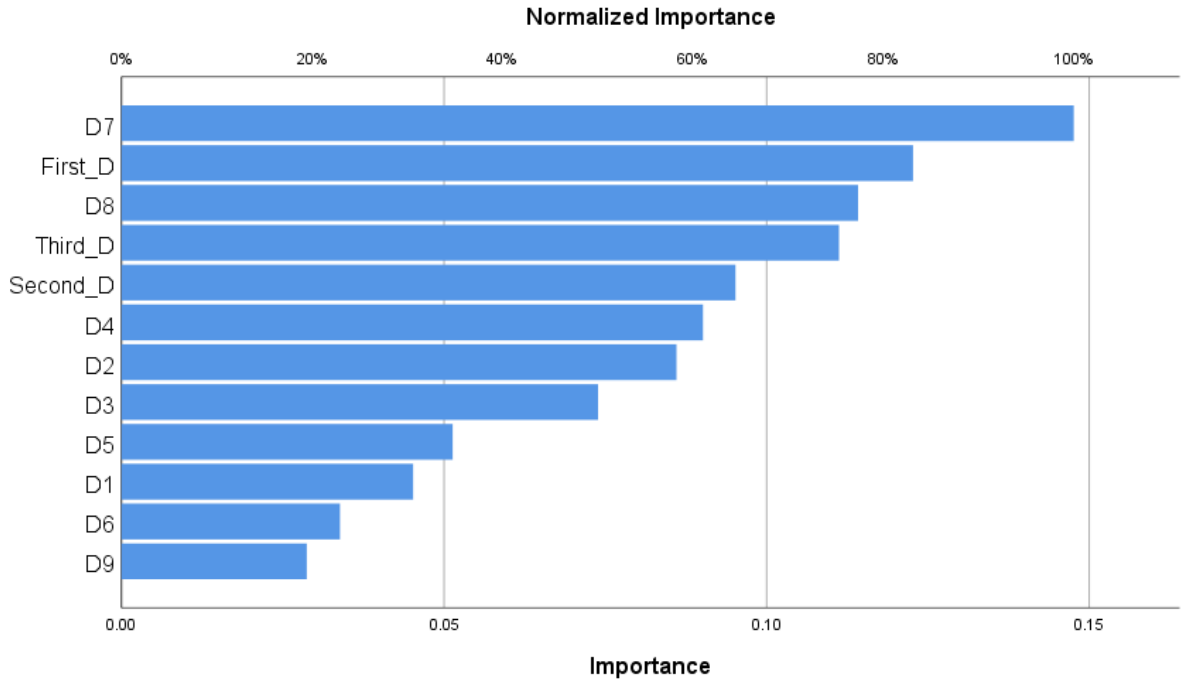
	[Third_D=9]	1.083	-.428	.275			
	D1	-.289	.609	.640			
	D2	.296	-.637	.822			
	D3	-.134	1.036	-.314			
	D4	.289	-1.629	-.067			
	D5	.807	.123	-.493			
	D6	-.135	1.011	-.051			
	D7	.020	.450	-1.608			
	D8	.695	-.663	1.107			
	D9	-.435	-.303	-.430			
Hidden Layer 1	(Bias)				1.745	-.805	-.848
	H(1:1)				-1.532	1.216	-.580
	H(1:2)				-.797	-2.252	2.278
	H(1:3)				-.659	2.826	-3.404

Classification

		Predicted			
Sample	Observed	mediocre option	good option	best option	Percent Correct
Training	mediocre option	3	0	0	100.0%
	good option	0	7	0	100.0%
	best option	0	0	3	100.0%
	Overall Percent	23.1%	53.8%	23.1%	100.0%
Testing	mediocre option	0	0	0	0.0%
	good option	0	1	0	100.0%
	best option	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Strategy of social protection

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.123	83.1%
Second discourse in text	.095	64.5%
Third discourse in text	.111	75.3%
CONTACT RESTRICTION	.045	30.6%
SANITATION AND HYGIENE	.086	58.3%
ISOLATION OF INFECTED	.074	50.0%

TOTAL ISOLATION	.090	61.1%
HEALTH CARE	.051	34.8%
VIRUS DISSEMINATION	.034	22.9%
LIFESTYLE CHANGES	.148	100.0%
RIGHTS AND FREEDOMS INFRINGEMENT	.114	77.4%
BUREAUCRATIC RESPONSE	.029	19.5%