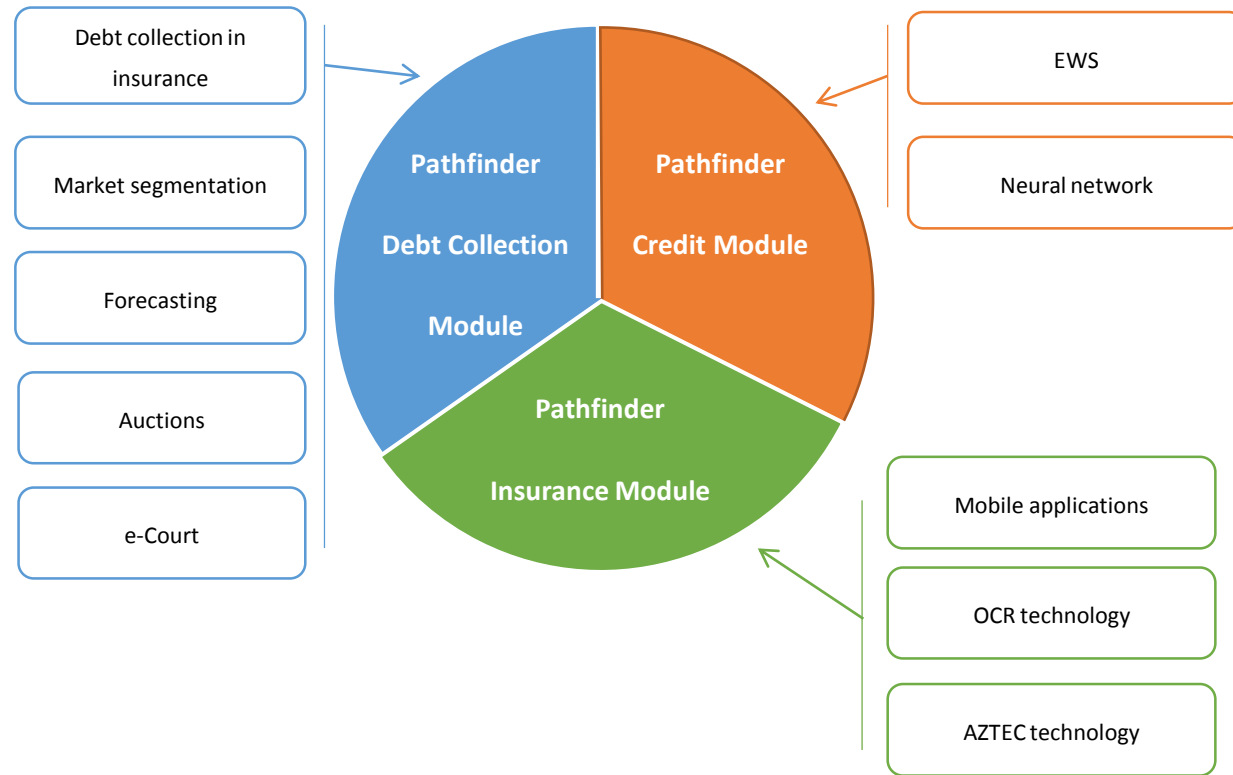
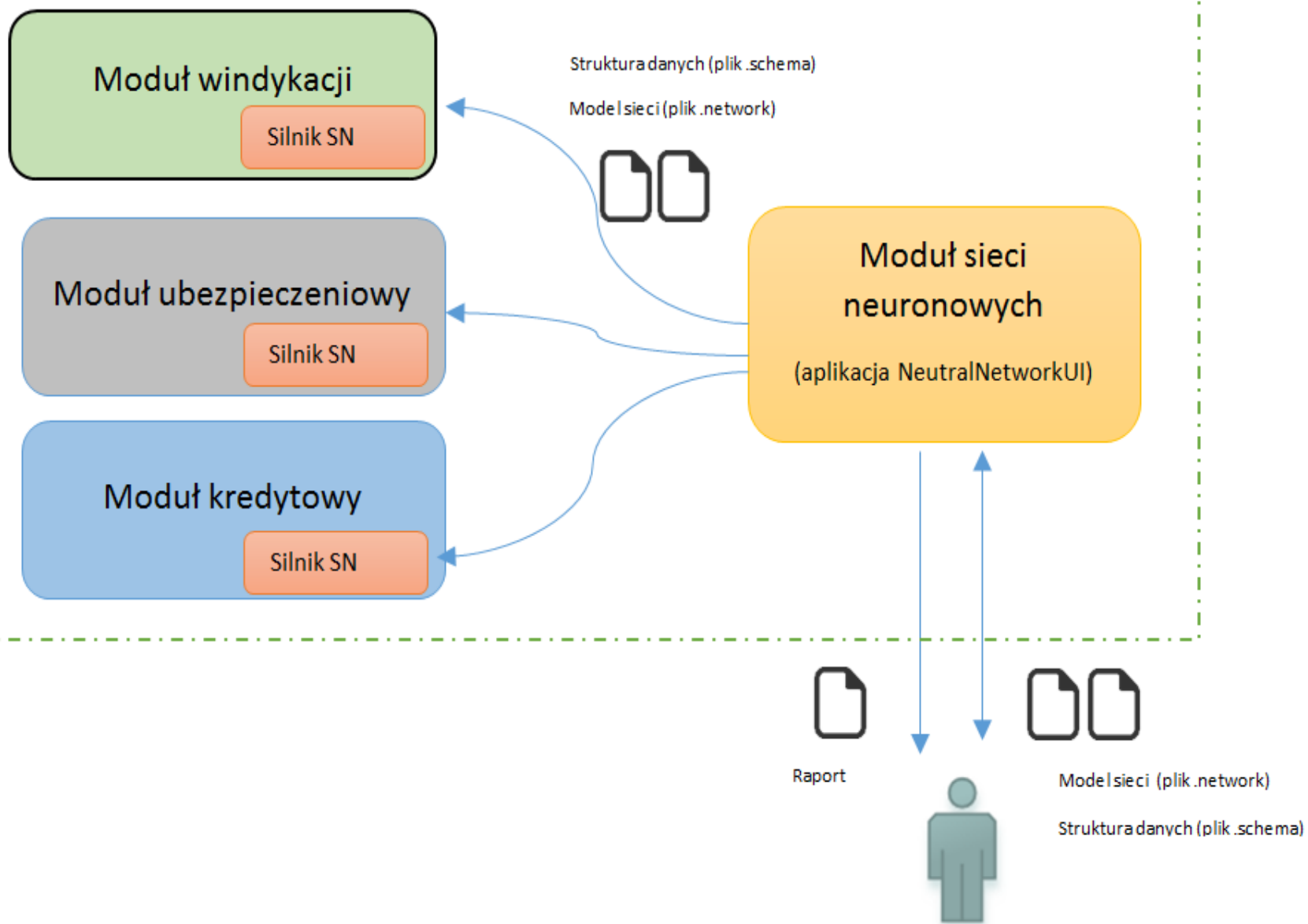


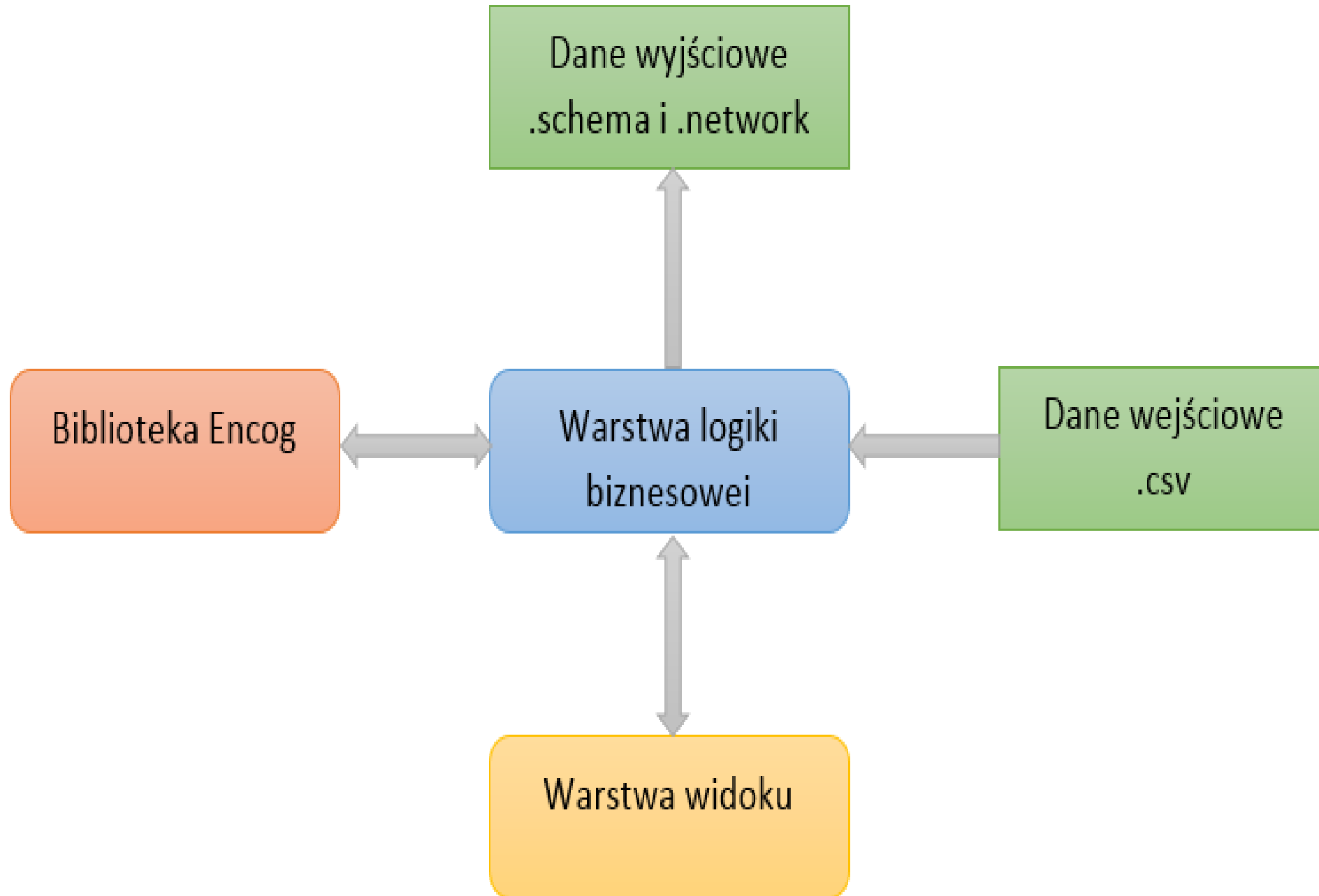
# Platforma VSoft – Pathfinder

<http://www.vsoft.pl/>



## Platforma Finansowa Pathfinder







New network



Learn existed network



Test learned network

## NETWORK

## DATA

## LEARNING

## TESTING

 Load schema

Network: MLP

Function: Sigmoid

Neurons: 7

 Import schema from data

C:\Users\Jerzy Korczak\Documents\VSOF\PrzykladStud-V



## Schema

Name	Input	Output	Min	Ma
Days in Recovery / Days of Agreement	<input type="checkbox"/>	<input type="checkbox"/>	0.2001	0.699
Months from the Last Payment	<input type="checkbox"/>	<input type="checkbox"/>	0	12
Last Payment Delay un Months	<input type="checkbox"/>	<input type="checkbox"/>	0	12
Penal Case	<input type="checkbox"/>	<input type="checkbox"/>	0	1
One-Person Activities	<input type="checkbox"/>	<input type="checkbox"/>	0	1
Small Company	<input type="checkbox"/>	<input type="checkbox"/>	0	1
Middle-size Company	<input type="checkbox"/>	<input type="checkbox"/>	0	1
Big Company	<input type="checkbox"/>	<input type="checkbox"/>	0	1
Agreement_L	<input type="checkbox"/>	<input type="checkbox"/>	0	1
Agreement_M	<input type="checkbox"/>	<input type="checkbox"/>	0	1
Agreement_H	<input type="checkbox"/>	<input type="checkbox"/>	0	1
Agreement_HP	<input type="checkbox"/>	<input type="checkbox"/>	0	1
Portfolio of Company_L	<input type="checkbox"/>	<input type="checkbox"/>	0	1
Portfolio of Company_M	<input type="checkbox"/>	<input type="checkbox"/>	0	1
Portfolio of Company_H	<input type="checkbox"/>	<input type="checkbox"/>	0	1

Zapisz model sieci



New network



Learn existed network



Test learned network

## NETWORK

## DATA

## LEARNING

## TESTING

 Load schema

Browse

 Import schema from data

C:\Users\Jerzy Korczak\Documents\VSOFT\PrzykladStud-V



Browse

Network:

MLP

Function:

Sigmoid

Neurons:

7

## Schema

Name	Input	Output	Min	Ma
Portfolio of Company_M	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0	1
Portfolio of Company_H	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0	1
Portfolio of Company_HP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0	1
Actual Value / Value Of The Agreement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.5009	1.499
Amount of Interest / Value of Agreement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.0004	0.499
Debt Agreement / Total Debt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.5001	0.999
Frozen Assets/ Total Debt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.0006	0.999
Amount Repaid / Total Debt	<input type="checkbox"/>	<input type="checkbox"/>	0	0.799
Total Debt In Recoveries / Total Debt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.0001	0.777
Days Past Due	<input checked="" type="checkbox"/>	<input type="checkbox"/>	101	600
Portfolio_L	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	1
Portfolio_M	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	1
Portfolio_H	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	1
Portfolio_HP	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	1

Zapisz model sieci



New network



Learn existed network



Test learned network

NETWORK

DATA

LEARNING

TESTING

Load learning data

C:\Users\Jerzy Korczak\Documents\VSOFT\PrzykladStud-Wind-siec\DebtCollection.csv



Browse

days in recc	months fron	last payer	penal case	one-person	small compa	middle-size	big compa
0.3957	2	1	0	0	1	0	0
0.4422	3	1	1	0	1	0	0
0.5356	3	9	0	0	1	0	0
0.2451	2	0	1	0	1	0	0
0.3262	0	2	0	0	1	0	0
0.6026	0	0	1	0	0	1	0
0.503	1	0	1	0	1	0	0
0.3969	2	9	0	0	0	0	1
0.4979	7	2	0	0	1	0	0
0.2585	2	7	0	0	1	0	0
0.2293	1	0	0	0	1	0	0
0.3744	1	8	0	1	0	0	0
0.2881	2	5	0	1	0	0	0
0.2112	5	0	0	1	0	0	0
0.4589	3	0	0	0	0	1	0
0.2955	0	8	0	0	1	0	0
0.6019	3	1	0	1	0	0	0
0.4701	0	4	1	0	0	1	0
0.3461	10	11	1	0	1	0	0
0.6955	2	1	0	0	1	0	0
0.5083	6	1	0	0	0	0	1





New network

Learn existed  
networkTest learned  
network

NETWORK

DATA

LEARNING

TESTING

Load learning data

C:\Users\Jerzy Korczak\Documents\VSOFT\PrzykladStud-Wind-siec\WindykacjaTren.csv



Browse

dni w windy	miesiecy od	miesiecy op	czy sprawa	czy dzialaln	czy przedsie	czy przedsie	czy przeds
0.5823	8	0	0	0	1	0	0
0.3378	8	7	0	0	1	0	0
0.2128	1	5	0	0	0	0	1
0.4592	9	8	1	0	1	0	0
0.4435	0	6	0	0	1	0	0
0.6108	2	0	1	0	0	0	1
0.3117	1	10	0	0	0	0	1
0.3773	0	0	0	1	0	0	0
0.2174	1	0	0	0	1	0	0
0.615	9	0	0	0	1	0	0
0.3637	2	1	0	0	1	0	0
0.6916	1	4	0	1	0	0	0
0.6495	0	0	0	1	0	0	0
0.2293	1	0	0	0	1	0	0
0.6381	3	8	1	0	0	1	0
0.6913	0	3	0	1	0	0	0
0.641	1	2	0	1	0	0	0
0.5931	0	1	0	1	0	0	0
0.36	5	0	1	0	0	1	0
0.5523	3	2	0	1	0	0	0
0.2176	0	5	0	1	0	0	0



New network



Learn existed network



Test learned network

NETWORK

DATA

LEARNING

TESTING

Learning:

Backpropagation

Iterations:

1000

Permissible error:

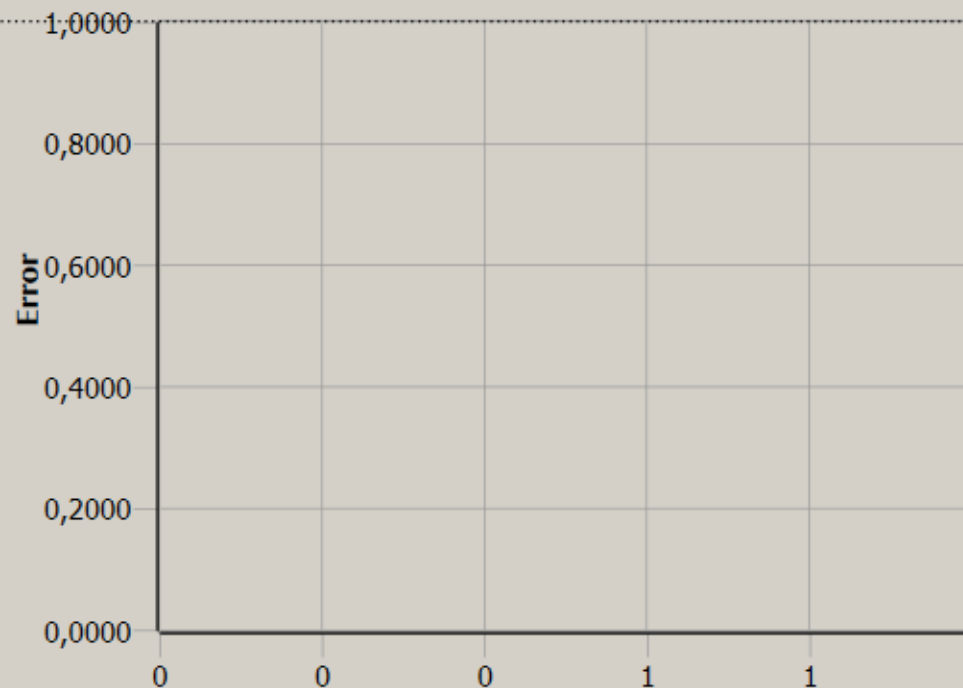
0.06

 Break on memory learning

Fold:

CrossValidation

5



Run teacher

Time: 00:00:00

Iterations:


Error value:


Zapisz model sieci


Zapisz raport z uczenia



Język    O programie

 New network

 Learn existed network

 Test learned network

NETWORK      DATA      **LEARNING**      TESTING

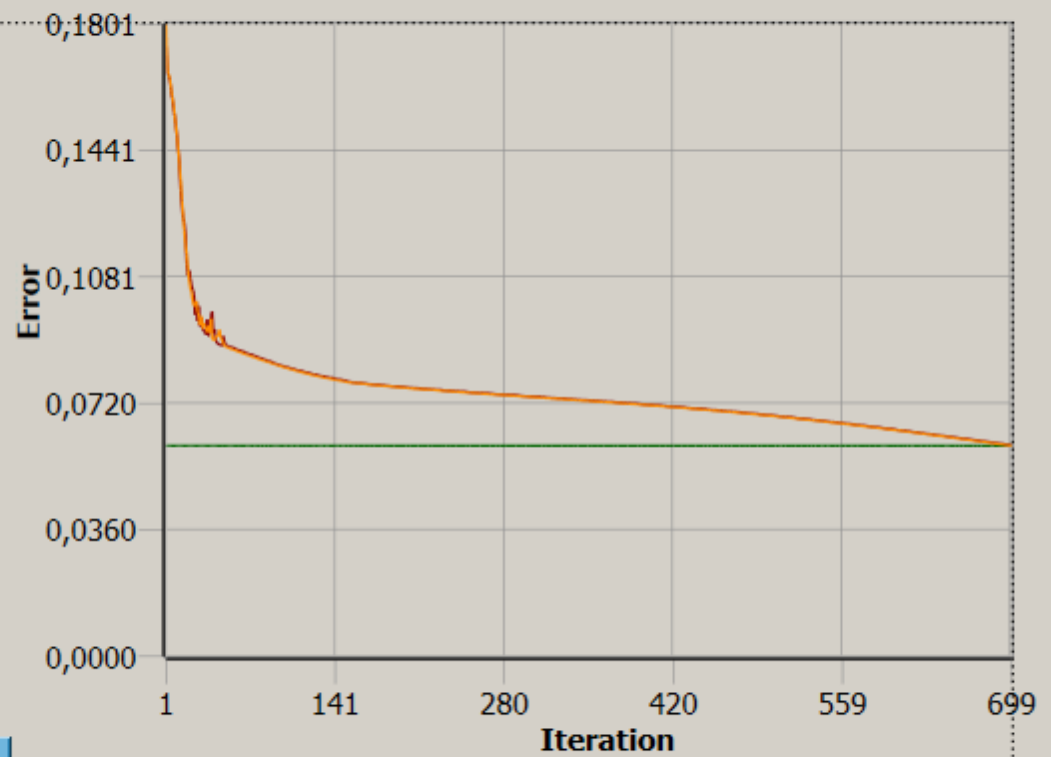
Learning:

Iterations:

Permissible error:

Break on memory learning

Fold: CrossValidation



**Run teacher**



Time: 00:32:720      Iterations:       Error value:

**Zapisz model sieci**      **Zapisz raport z uczenia**



New network



Learn existed network



Test learned network

NETWORK

DATA

LEARNING

TESTING

Load test data

C:\Users\Jerzy Korczak\Documents\VSOFT\PrzykladStud-Wind-siec\Windykacja-Test.csv



Browse

dni w windy	miesiocy od	miesiocy op	czy sprawa	czy dzialaln	czy przedsie	czy przedsie	czy przeds
0.6021	0	0	0	0	1	0	0
0.6005	0	0	0	1	0	0	0
0.3095	0	1	0	0	1	0	0
0.4905	4	1	1	0	1	0	0
0.4218	8	0	0	1	0	0	0
0.3704	1	3	0	0	1	0	0
0.5273	2	11	0	1	0	0	0

Run test

Expected values

Calculated values	Confusion matrix	portfel l	portfel m	portfel h	portfel hp	Sum
	PORTFEL_L		53	122	53	8
PORTFEL_M		47	50	14	3	114
PORTFEL_H		24	20	4	0	48
PORTFEL_HP		0	0	0	0	0
Sum		124	192	71	11	398

Zapisz raport z testów



New network



Learn existed network



Test learned network

NETWORK

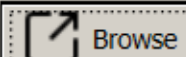
DATA

LEARNING

TESTING

Load test data

C:\Users\Jerzy Korczak\Documents\VSOF\PrzykladStud-Wind-siec\WindykacjaWal.csv



dni w windy	miesiecy od	miesiecy op	czy sprawa	czy dzialaln	czy przedsie	czy przedsie	czy przeds
0.3743	0	1	0	1	0	0	0
0.4142	3	7	0	0	0	0	1
0.5406	0	1	0	1	0	0	0
0.4545	4	1	0	1	0	0	0
0.5365	6	1	0	1	0	0	0
0.543	2	0	0	1	0	0	0
0.6098	11	1	1	1	0	0	0

Run test

Expected values

Calculated values	Confusion matrix	portfel l	portfel m	portfel h	portfel hp	Sum
	PORTFEL_L		34	64	26	5
PORTFEL_M		19	27	8	2	56
PORTFEL_H		9	4	1	1	15
PORTFEL_HP		0	0	0	0	0
Sum		62	95	35	8	200

Zapisz raport z testów

Numer sprawy	Status sprawy	Nazwa klienta	Forma organizacyjna	Numer klienta	DPD	Portfel	PESEL/NIP	Zadłużenie	Opcje
10192	W windykacji	WINDYKACJA/10192	Osoba prawna	Kqdsifa3	16193	Low	8833740340	1 000,00 zł	Q
10219	W windykacji	WINDYKACJA/10219	Osoba prawna	K40gwurb	16162	Medium	4881694475	0,00 zł	Q
10393	W windykacji	WINDYKACJA/10393	Osoba prawna	Krdx03t8	16106	High+	3126642175	1 743,53 zł	Q
10353	W windykacji	WINDYKACJA/10353	Osoba prawna	K8hvqouk	15827	High+	3688931068	11 866,42 zł	Q

