TYNP.400201.XY PP

MainWindow

-PS: PaintScrene -NW: NetWork

-NW_config: data_NetWork -ui: Ui::MainWindow*

+MainWindow(QWidget *parent = nullptr)

+ReadDataNetWork(std::string path): data_NetWork

+ReadTest(double* input, int input_n): void

+StartGuess(): void

+void clearLCD():void

PaintScene

-draw: bool

-vv: QVector<QPointF>

-pic: QImage -ui: Ui::PaintScene

+PaintScene(QWidget *parent = nullptr)

+paintEvent(QPaintEvent*): void

+mousePressEvent(QMouseEvent*): void +mouseMoveEvent(QMouseEvent*): void +mouseReleaseEvent(QMouseEvent*): void

+clear(): void

NetWork

-actFunc: ActivateFunction

-bois: double**

-L: int

-neuros_bios_val: double*

-neuros_err: double**
-neuros val: double**

-size: int*
-weight: Matrix*

+NetWork(data_NetWork data)

+~NetWork()

+PrintConfig(): void

+SetInput(double* values): void

+ForwarFeed(): double

+SearchMaxIndex(double* values): int

+PrintValue(int L): void

+BackPropogation(double expert): void

+WeightsUpdater(double Ir): void

+SaveWeights(): void

+void ReadWeights(): void

Matrix

-matrix: double**

-row: int -col: int

+Matrix()

+~Matrix()

+Init(int row, int col): void

+Rand(): void

+Multi(const Matrix& m, const double* b, int n, double* c): void

+Multi_T(const Matrix& m, const double* b, int n, double* c): void

+SumVector(double* a, const double* b, int n): void

+operator ()(int i, int j): double&

+operator << (std::ostream& os, const Matrix& m): srd:: ostream&

+operator >> (std::istream& is, Matrix& m): std:: istream&

ActivateFunction

-actFunc: activateFunc

+ActivateFunctuon()

+set(): void

+use(double* value, int n): void

+useDer(double* value, int n): void

+useDer(double value): double

Sigmoid

+use(double* value, int n): void +useDer(double* value, int n): void +useDer(double value): double

ReLU

+use(double* value, int n): void +useDer(double* value, int n): void +useDer(double value): double

Thx

+use(double* value, int n): void +useDer(double* value, int n): void +useDer(double value): double

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ГУИР.400201.XYY PP1

Диаграмма классов

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