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DecisionMakerLPA Reference

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[<default>5](#topic_000000000000002B)

<default> Namespace

Classes

[Baricentro5](#topic_0000000000000000), [Carta7](#topic_0000000000000007), [Constante11](#topic_0000000000000013), [EstadoLogico15](#topic_0000000000000024), [LogicaParaconsistente16](#topic_0000000000000027)

Baricentro Class

Classe modelo que contém os valores favoráveis (Mi) e desfavoráveis (Lambda).

|  |  |
| --- | --- |
| C# |  |
| public class Baricentro | |

Requirements

**Namespace:**[<default>5](#topic_000000000000002B)

**Assembly:** DecisionMakerLPA (in DecisionMakerLPA.dll)

Properties

[Lambda6](#topic_0000000000000003), [Mi6](#topic_0000000000000002)

Methods

[CalculaGrauDeCerteza6](#topic_0000000000000005), [CalculaGrauDeIncerteza6](#topic_0000000000000006), [Normalizar7](#topic_0000000000000004)

Baricentro Constructor

Método Construtor.

|  |  |
| --- | --- |
| C# |  |
| public Baricentro(  [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) *mi*,  [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) *lambda* ) | |

Parameters

mi

|  |
| --- |
| Valor Favorável. |

lambda

|  |
| --- |
| Valor Desfavorável. |

See Also

Applies to: [Baricentro5](#topic_0000000000000000)

Baricentro.Lambda Property

|  |  |
| --- | --- |
| C# |  |
| public [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) Lambda {get; set;} | |

Property Value

Getter e Setter do valor Lambda.

See Also

Applies to: [Baricentro5](#topic_0000000000000000)

Baricentro.Mi Property

|  |  |
| --- | --- |
| C# |  |
| public [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) Mi {get; set;} | |

Property Value

Getter e Setter do valor Mi.

See Also

Applies to: [Baricentro5](#topic_0000000000000000)

Baricentro.CalculaGrauDeCerteza Method

Calcula o grau de Certeza.

|  |  |
| --- | --- |
| C# |  |
| public [double](https://docs.microsoft.com/en-us/dotnet/api/system.double) CalculaGrauDeCerteza() | |

Returns

Retorna valor double no intervalo de 0 até 1.

See Also

Applies to: [Baricentro5](#topic_0000000000000000)

Baricentro.CalculaGrauDeIncerteza Method

Calcula o grau de incerteza.

|  |  |
| --- | --- |
| C# |  |
| public [double](https://docs.microsoft.com/en-us/dotnet/api/system.double) CalculaGrauDeIncerteza() | |

Returns

Retorna valor double no intervalo de 0 até 1.

See Also

Applies to: [Baricentro5](#topic_0000000000000000)

Baricentro.Normalizar Method

Normalizar o valor para intervalo de 0 até 1.

|  |  |
| --- | --- |
| C# |  |
| public static [double](https://docs.microsoft.com/en-us/dotnet/api/system.double) Normalizar(  [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) *atributo* ) | |

Parameters

atributo

|  |
| --- |
|  |

Returns

Retorna o valor do Mi ou Lambda divido por cem.

See Also

Applies to: [Baricentro5](#topic_0000000000000000)

Carta Class

Classe Modelo Carta que contém oito valores.

|  |  |
| --- | --- |
| C# |  |
| public class Carta | |

Requirements

**Namespace:**[<default>5](#topic_000000000000002B)

**Assembly:** DecisionMakerLPA (in DecisionMakerLPA.dll)

Properties

[LambAtributo18](#topic_000000000000000F), [LambAtributo29](#topic_0000000000000010), [LambAtributo39](#topic_0000000000000011), [LambAtributo49](#topic_0000000000000012), [MiAtributo19](#topic_000000000000000B), [MiAtributo29](#topic_000000000000000C), [MiAtributo310](#topic_000000000000000D), [MiAtributo410](#topic_000000000000000E)

Methods

[GetAtributoLamb10](#topic_000000000000000A), [GetAtributoMi10](#topic_0000000000000009)

Carta Constructor

Método Construtor.

|  |  |
| --- | --- |
| C# |  |
| public Carta(  [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) *mi1*,  [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) *lamb1*,  [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) *mi2*,  [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) *lamb2*,  [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) *mi3*,  [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) *lamb3*,  [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) *mi4*,  [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) *lamb4* ) | |

Parameters

mi1

|  |
| --- |
|  |

lamb1

|  |
| --- |
|  |

mi2

|  |
| --- |
|  |

lamb2

|  |
| --- |
|  |

mi3

|  |
| --- |
|  |

lamb3

|  |
| --- |
|  |

mi4

|  |
| --- |
|  |

lamb4

|  |
| --- |
|  |

See Also

Applies to: [Carta7](#topic_0000000000000007)

Carta.LambAtributo1 Property

|  |  |
| --- | --- |
| C# |  |
| public [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) LambAtributo1 {get; set;} | |

See Also

Applies to: [Carta7](#topic_0000000000000007)

Carta.LambAtributo2 Property

|  |  |
| --- | --- |
| C# |  |
| public [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) LambAtributo2 {get; set;} | |

See Also

Applies to: [Carta7](#topic_0000000000000007)

Carta.LambAtributo3 Property

|  |  |
| --- | --- |
| C# |  |
| public [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) LambAtributo3 {get; set;} | |

See Also

Applies to: [Carta7](#topic_0000000000000007)

Carta.LambAtributo4 Property

|  |  |
| --- | --- |
| C# |  |
| public [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) LambAtributo4 {get; set;} | |

See Also

Applies to: [Carta7](#topic_0000000000000007)

Carta.MiAtributo1 Property

|  |  |
| --- | --- |
| C# |  |
| public [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) MiAtributo1 {get; set;} | |

See Also

Applies to: [Carta7](#topic_0000000000000007)

Carta.MiAtributo2 Property

|  |  |
| --- | --- |
| C# |  |
| public [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) MiAtributo2 {get; set;} | |

See Also

Applies to: [Carta7](#topic_0000000000000007)

Carta.MiAtributo3 Property

|  |  |
| --- | --- |
| C# |  |
| public [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) MiAtributo3 {get; set;} | |

See Also

Applies to: [Carta7](#topic_0000000000000007)

Carta.MiAtributo4 Property

|  |  |
| --- | --- |
| C# |  |
| public [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) MiAtributo4 {get; set;} | |

See Also

Applies to: [Carta7](#topic_0000000000000007)

Carta.GetAtributoLamb Method

Pega o atributo de acordo com índice passado por parâmetro.

|  |  |
| --- | --- |
| C# |  |
| public [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) GetAtributoLamb(  [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) *i* ) | |

Parameters

i

|  |
| --- |
| Índice |

Returns

Retorna o atributo selecionado.

See Also

Applies to: [Carta7](#topic_0000000000000007)

Carta.GetAtributoMi Method

Pega o atributo de acordo com índice passado por paramêtro.

|  |  |
| --- | --- |
| C# |  |
| public [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) GetAtributoMi(  [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) *i* ) | |

Parameters

i

|  |
| --- |
| Índice |

Returns

Retorna o atributo selecionado.

See Also

Applies to: [Carta7](#topic_0000000000000007)

Constante Class

Classe estática que possui as constantes da biblioteca.

|  |  |
| --- | --- |
| C# |  |
| public static class Constante | |

Requirements

**Namespace:**[<default>5](#topic_000000000000002B)

**Assembly:** DecisionMakerLPA (in DecisionMakerLPA.dll)

Fields

[FALSO11](#topic_0000000000000019), [INCONSISTENTE11](#topic_000000000000001A), [INCONSISTENTE\_T\_FALSO12](#topic_0000000000000023), [INCONSISTENTE\_T\_VERDADE12](#topic_000000000000001D), [PARACOMPLETO12](#topic_000000000000001B), [PARACOMPLETO\_T\_FALSO12](#topic_0000000000000021), [PARACOMPLETO\_T\_VERDADE12](#topic_000000000000001F), [QUASE\_F\_I13](#topic_0000000000000022), [QUASE\_F\_P13](#topic_0000000000000020), [QUASE\_V\_I13](#topic_000000000000001C), [QUASE\_V\_P13](#topic_000000000000001E), [VCFA13](#topic_0000000000000015), [VCIC14](#topic_0000000000000016), [VCPA14](#topic_0000000000000017), [VCVE14](#topic_0000000000000014), [VERDADE14](#topic_0000000000000018)

FALSO Field

See Also

Applies to: [Constante11](#topic_0000000000000013)

INCONSISTENTE Field

|  |  |
| --- | --- |
| C# |  |
| public const [string](https://docs.microsoft.com/en-us/dotnet/api/system.string) INCONSISTENTE = @"INCONSISTENTE" | |

See Also

Applies to: [Constante11](#topic_0000000000000013)

INCONSISTENTE\_T\_FALSO Field

|  |  |
| --- | --- |
| C# |  |
| public const [string](https://docs.microsoft.com/en-us/dotnet/api/system.string) INCONSISTENTE\_T\_FALSO = @"INCONSISTENTE\_TENDENDO\_A\_FALSO" | |

See Also

Applies to: [Constante11](#topic_0000000000000013)

INCONSISTENTE\_T\_VERDADE Field

|  |  |
| --- | --- |
| C# |  |
| public const [string](https://docs.microsoft.com/en-us/dotnet/api/system.string) INCONSISTENTE\_T\_VERDADE = @"INCONSISTENTE\_TENDENDO\_A\_VERDADE" | |

See Also

Applies to: [Constante11](#topic_0000000000000013)

PARACOMPLETO Field

|  |  |
| --- | --- |
| C# |  |
| public const [string](https://docs.microsoft.com/en-us/dotnet/api/system.string) PARACOMPLETO = @"PARACOMPLETO" | |

See Also

Applies to: [Constante11](#topic_0000000000000013)

PARACOMPLETO\_T\_FALSO Field

|  |  |
| --- | --- |
| C# |  |
| public const [string](https://docs.microsoft.com/en-us/dotnet/api/system.string) PARACOMPLETO\_T\_FALSO = @"PARACOMPLETO\_TENDENDO\_A\_FALSO" | |

See Also

Applies to: [Constante11](#topic_0000000000000013)

PARACOMPLETO\_T\_VERDADE Field

|  |  |
| --- | --- |
| C# |  |
| public const [string](https://docs.microsoft.com/en-us/dotnet/api/system.string) PARACOMPLETO\_T\_VERDADE = @"PARACOMPLETO\_TENDENTO\_A\_VERADADE" | |

See Also

Applies to: [Constante11](#topic_0000000000000013)

QUASE\_F\_I Field

|  |  |
| --- | --- |
| C# |  |
| public const [string](https://docs.microsoft.com/en-us/dotnet/api/system.string) QUASE\_F\_I = @"QUASE\_FALSO\_TEDENDO\_A\_INCONSISTENTE" | |

See Also

Applies to: [Constante11](#topic_0000000000000013)

QUASE\_F\_P Field

|  |  |
| --- | --- |
| C# |  |
| public const [string](https://docs.microsoft.com/en-us/dotnet/api/system.string) QUASE\_F\_P = @"QUASE\_FALSO\_TENDENDO\_PARACOMPLETO" | |

See Also

Applies to: [Constante11](#topic_0000000000000013)

QUASE\_V\_I Field

|  |  |
| --- | --- |
| C# |  |
| public const [string](https://docs.microsoft.com/en-us/dotnet/api/system.string) QUASE\_V\_I = @"QUASE\_VERDADE\_TENDENDO\_A\_INCONSISTENTE" | |

See Also

Applies to: [Constante11](#topic_0000000000000013)

QUASE\_V\_P Field

|  |  |
| --- | --- |
| C# |  |
| public const [string](https://docs.microsoft.com/en-us/dotnet/api/system.string) QUASE\_V\_P = @"QUASE\_VERDADE\_TENDENDO\_A\_PARACOMPLETO" | |

See Also

Applies to: [Constante11](#topic_0000000000000013)

VCFA Field

|  |  |
| --- | --- |
| C# |  |
| public const [double](https://docs.microsoft.com/en-us/dotnet/api/system.double) VCFA = -0,5 | |

See Also

Applies to: [Constante11](#topic_0000000000000013)

VCIC Field

|  |  |
| --- | --- |
| C# |  |
| public const [double](https://docs.microsoft.com/en-us/dotnet/api/system.double) VCIC = 0,5 | |

See Also

Applies to: [Constante11](#topic_0000000000000013)

VCPA Field

|  |  |
| --- | --- |
| C# |  |
| public const [double](https://docs.microsoft.com/en-us/dotnet/api/system.double) VCPA = -0,5 | |

See Also

Applies to: [Constante11](#topic_0000000000000013)

VCVE Field

|  |  |
| --- | --- |
| C# |  |
| public const [double](https://docs.microsoft.com/en-us/dotnet/api/system.double) VCVE = 0,9 | |

See Also

Applies to: [Constante11](#topic_0000000000000013)

VERDADE Field

|  |  |
| --- | --- |
| C# |  |
| public const [string](https://docs.microsoft.com/en-us/dotnet/api/system.string) VERDADE = @"VERDADE" | |

See Also

Applies to: [Constante11](#topic_0000000000000013)

EstadoLogico Class

Classe estática que realizar a verificação do estado Lógico no reticulado.

|  |  |
| --- | --- |
| C# |  |
| public static class EstadoLogico | |

Requirements

**Namespace:**[<default>5](#topic_000000000000002B)

**Assembly:** DecisionMakerLPA (in DecisionMakerLPA.dll)

Methods

[DescobreEstadoLogico15](#topic_0000000000000025), [TransformaEstadoLogicoEmPorcentagem15](#topic_0000000000000026)

EstadoLogico.DescobreEstadoLogico Method

Confere o estado lógico pelo grau de certeza e incerteza.

|  |  |
| --- | --- |
| C# |  |
| public static [string](https://docs.microsoft.com/en-us/dotnet/api/system.string) DescobreEstadoLogico(  [double](https://docs.microsoft.com/en-us/dotnet/api/system.double) *gc*,  [double](https://docs.microsoft.com/en-us/dotnet/api/system.double) *gi* ) | |

Parameters

gc

|  |
| --- |
| Grau de Certeza |

gi

|  |
| --- |
| Grau de Incerteza |

Returns

Retorna o estado lógico.

See Also

Applies to: [EstadoLogico15](#topic_0000000000000024)

EstadoLogico.TransformaEstadoLogicoEmPorcentagem Method

Transforma a estado lógico em porcentagem.

|  |  |
| --- | --- |
| C# |  |
| public static [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) TransformaEstadoLogicoEmPorcentagem(  [string](https://docs.microsoft.com/en-us/dotnet/api/system.string) *estadoLogico* ) | |

Parameters

estadoLogico

|  |
| --- |
| Um dos doze estados lógicos da paraconsistente. |

Returns

Porcentagem em Danos.

See Also

Applies to: [EstadoLogico15](#topic_0000000000000024)

LogicaParaconsistente Class

Classe Responsável por implementar a Lógica Paraconsistente.

|  |  |
| --- | --- |
| C# |  |
| public class LogicaParaconsistente | |

Requirements

**Namespace:**[<default>5](#topic_000000000000002B)

**Assembly:** DecisionMakerLPA (in DecisionMakerLPA.dll)

Methods

[ObtemBaricentro16](#topic_0000000000000029), [ObtemPorcentagemDeDano17](#topic_0000000000000028)

LogicaParaconsistente.ObtemBaricentro Method

Adiquire o Baricentro através da lista de cartas.

|  |  |
| --- | --- |
| C# |  |
| public [Baricentro](#topic_0000000000000000) ObtemBaricentro(  [List](https://docs.microsoft.com/en-us/dotnet/api/system.collections.generic.list-1)<[Carta](#topic_0000000000000007)> *cartas* ) | |

Parameters

cartas

|  |
| --- |
| Índice do atributo da carta. |

Returns

Retorna a classe Baricentro.

See Also

Applies to: [LogicaParaconsistente16](#topic_0000000000000027)

LogicaParaconsistente.ObtemPorcentagemDeDano Method

Recebe uma lista "Carta" com seus valores favoráveis e desfavoráveis, aplicar a Lógica Paraconsistente.

|  |  |
| --- | --- |
| C# |  |
| public [int](https://docs.microsoft.com/en-us/dotnet/api/system.int32) ObtemPorcentagemDeDano(  [List](https://docs.microsoft.com/en-us/dotnet/api/system.collections.generic.list-1)<[Carta](#topic_0000000000000007)> *cartas* ) | |

Parameters

cartas

|  |
| --- |
| Índice do atributo da carta. |

Returns

Retorna porcentagem de Dano.

See Also

Applies to: [LogicaParaconsistente16](#topic_0000000000000027)

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