UTOI

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Realiza a inversão de uma matriz de transformação homogênea.

Calling Syntax

arelb = tinvert(brela)

I/O Variables

```
IN Double Matrix {f brela}: Homogeneous Transformation Matrix 4x4
```

 ${\tt OU\ Double\ Matrix}\ \textbf{arelb}{:}\ Homogeneous\ Transformation\ Matrix}\ 4x4$

Example

Version Control

1.0; Leonardo da Cunha Menegon, Michel Kagan, Vinícius Nardelli; 01/05/2023; First issue.

Function

```
function [arelb] = tinvert(brela)
```

Validity

```
arguments
    brela {functions.mustBeHomTransfR}
end
```

Main Calculations

```
R_T = brela(1:3, 1:3)';
0 = brela(1:3, 4);
```

Output Data

```
arelb = [R_T, -R_T*O;
0, 0, 0, 1];
```

end

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