Team Presentation Tech United
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Tech United Eindhoven
Recap of last year

Requested Topics

- Shooting with Machine Learning
- Dealing with light condition changes
- Path planning
- The future: learning behavior of opponent teams
Recap of last year

1st place RoboCup Sydney & 2nd place Portuguese Open
Our Team

**Hobbyists**
- BSc: 5%
- MSc: 27%
- PhD: 14%
- TU/e: 18%
- Alumni: 36%

**Education**
- BSc: 5
- MSc: 1
- PDEng: 1
- TU/e: 5
- Alumni: 0
Requested Topics
Shooting with Machine Learning

Target

Infer Model

Inverse Model

\( \nu_{0,\text{des}} \)

\( \alpha_{0,\text{des}} \)

\( \beta_0, \beta_1, \beta_2 \)

EKF

Kinect

Inter-Robot Variation + Time Dependency

Inverse Model

Duty Cycle

Lever Height

\( \nu_0 \)

\( \alpha_0 \)

\( x_{\text{ball}}(t), y_{\text{ball}}(t), z_{\text{ball}}(t) \)

\( v_{0,\text{meas}} \)

\( \alpha_{0,\text{meas}} \)
Dealing with Light Condition Changes
Dealing with Light Condition Changes
Dealing with Light Condition Changes

[Image of a graph showing light condition changes with various parameters and a 3D map with objects and markers.]
To be continued...
Thank you for your attention!