



CPR
3663

CPR Informatics Scouting & Strategy
A Division of Cedar Park Robotics Team 3663

cpr3663.com/iss



OUTREACH & LEARNING
BUILDING A FRUITFUL COMMUNITY



INFORMATICS & SCOUTING
DISCOVERING DATA INSIGHTS



LOBBYING & STRATEGY
MAKING A WISER DECISION

MORE THAN ROBOTS



CPR ISS Division

ISS (Informatics Scouting & Strategy) Division is a crucial part of team CPR. We use state of the art software such as Scantron, R-Script, and Tableau Desktop program to process and visualize data. This information is valuable when creating strategies during competition and especially helpful during alliance selection. *ISS Division* is very proud of our data accuracy and availability, and endeavors to raise the level of play for everyone.

“CPR, well-known for their scouting acumen... (evaluates teams) based on the team’s individual performance, regardless of their alliance”

Outreach

One of *ISS*'s missions is to educate the innovators of tomorrow, but this goal extends beyond the personnel of our own team. *ISS* goes out of our way to post data at competitions, making the information available to anyone.

ISS also shares scouting tips, because sharing knowledge with other teams allows us to fulfill our responsibility to exhibit gracious professionalism and coopertition. Outreach allows us to get other people interested in robotics, by hosting interest meetings, showing off the robot, or just spreading the word of how robotics is more than just robots.

Informatics & Scouting

ISS Division has an extensive scouting team that watches matches live from the stands and collects quantitative data using a student designed scantron system. In addition, *ISS* is exploring the opportunity of collecting data with a scouting app as well. These make our data clear and easy to transfer into other processing systems. This year, *ISS* is using R-Script, a statistical programming language, for mission control. It allows us to clean and check the data for errors. The data that *ISS* collects and processes lets CPR team 3663 make informed decisions.

Another part of the scouting subdivision is Qualitative scouting, which records all of the insights that the Quantitative is unable to record, such as robot speed or driver aggressiveness. This provides another lens to view other teams, allowing for even more insight.

Lobbying & Strategy

ISS uses Tableau to make complex yet user-friendly graphs and dashboards. These graphs enable the team to effectively communicate with others, both when creating strategies and when lobbying for alliance selection. Lobbying greatly increases CPR's relationship with other teams in the area as well, allowing some great alliances to be born.

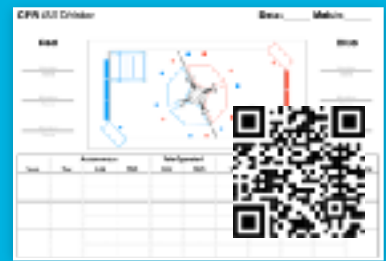
ISS greatly prioritizes creating a Match Strategy for each match, allowing us to accurately tell what each upcoming match has in store for the alliance. Using the data collected by the scouting team, the strategy sub-division is able to utilize each robot on the alliance to its fullest potential, sometimes even turning what seems like a certain loss into a close match, or even a win.

Additional ISS Resources



MATCH DATA

Check out our latest match stats and visualizations!



SCOUTING RESOURCES

Want to have your own scouting team? Here are helpful tips!



ISS DOCUMENTATION

Want to know more about ISS? Check out our website & documentation!