

First Laureate Applied Research

- **Research Work Title:** Terrestrial Navigation System
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- **Collaborator:** Electrical and Computer Dept.



Abstract:

Terrestrial Navigation Systems are one of the best alternative and also backup systems for space-based navigation systems like GPS, according to Volpe and IAT reports. Project LPS is based on well-known Loran-c and its successor eLoran. Because of existing various cooperation limits, whole project is researched and developed domestically by research groups in Iran.

Some achievements are:

- Design and manufacturing of High power Transmitters with two methods.
- Design of Receivers
- Design of High Gain Transmitting Antennas.
- Design of Receiving Antennas.
- Design synchronization and control hardware and software.
- Implementation of analyzing soft wares.
- Making Simulators to support research and development.

