

Internships LIG – Drakkar

Martin Heusse

UWB Precision ranging for land slide monitoring

Joint work between: LIG / Sage Ingénierie

- Land movement tracking sought precision: 1cm
- 802.15.4z (UWB) accuracy/precision : 10cm
- Experimental validation, statistical refinement

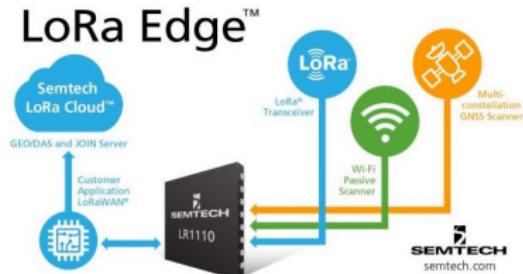


Ref: Daniel Neuhold, et al. HIPR: High-precision UWB ranging for sensor networks, MSWIM '19,

GNSS Precision positioning for land slide monitoring

Joint work between: LIG / Sage Ingénierie

- Land movement tracking sought precision: 1cm
- GNSS precision 1m
- LoRa Edge (LR1110): low power GNSS positioning
- Experimental validation, statistical refinement

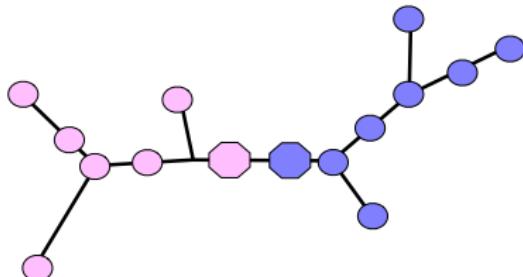


Diversity for PLC-based smart grid data collection

Joint work between: LIG / Enedis

- Unreliable data collection, in places
- Benefits of adding a data collection point?
- Traffic capacity gains?
- Simulation

Multi hop sensor networks



RF technology for the smart grid

- Unreliable data collection, in places
- Benefits of other technologies?
- Traffic capacity gains?
- Simulation