EVARILOS Open Challenge

Call for Competition

The **EVARILOS** consortium is pleased to announce the EVARILOS Open Challenge, a RF-based indoor localization competition in which participating teams compete in precise localization under the influence of different RF-interference scenarios. The competing localization solutions will be evaluated following the **EVARILOS benchmarking methodology**, aligned with the upcoming **ISO/IEC 18305 standard: Test and evaluation of localization and tracking systems**, both under standard office type of environment and under specific, controlled RF interference conditions.

The **EVARILOS Open Challenge** will be run with two tracks:

TRACK 2: RF-BASED INDOOR LOCALIZATION SOLUTIONS IN PUBLIC SPACES
June 2014 - Ghent, BE

TRACK 3: RF-BASED INDOOR LOCALIZATION ALGORITHMS
May - July 2014 - online remote competition

In parallel to doing on-site experiments, EVARILOS offers an option for a completely remote deployment and execution of the localization algorithms no traveling is needed in case of pursuing this option!

The competition provides contestants with a unique opportunity to test and compare the performance of their RF-based indoor localization algorithms following a standardized evaluation methodology, as well as to test the sensitivity of their algorithms to RF interference under controlled conditions.

Objectives

The EVARILOS Open Challenge aims to provide the contestants with opportunities to:

- test and compare the performance of their RF-based indoor localization solutions following a standardized evaluation methodology;
- test the sensitivity of their approach to radio interference under controlled conditions;
- contribute towards the establishment of a public repository of experimental traces from indoor localization solutions;
- comment on their experience in using the EVARILOS Benchmarking Platform, a system for automatic evaluation of indoor localization solutions.

Submission Details

Candidate competitors are invited to submit an extended abstract describing their system, where a "competitor" can be any individual or group of individuals working as a single team, associated to a single or a number of organisations. The extended abstracts need to follow the LNCS/CCIS one-column page format. The length of the extended abstracts should not exceed four pages, including figures and tables. The extended abstracts will undergo a peer review by the technical program committee members. The extended abstracts must include a description of the deployment, and algorithms that will be used, and the description of the internal data produced and processed by the system.

After the competition there is possibility to expand the abstracts to full papers that will be published.

EVARILOS Important Links (Open Challenge, Testbeds, Benchmarking):

www.evarilos.eu/open-challenge
www.evarilos.eu/testbeds
www.evarilos.eu/docs/EVARILOS_Benchmarking_Handbook.pdf

Guidance Note and Technical Annex

A detailed description of the EVARILOS Infrastructure for Indoor Localization Experiments and guidance notes for **Track 2** and **Track 3** is available at:

www.evarilos.eu/open_challenge_track2.php
www.evarilos.eu/open_challenge_track3.php

Please check the competition web page on the **EVARILOS** web site for regular updates and register to the EVARILOS Open Challenge mailing list at:

https://lists.tu-berlin.de/mailman/listinfo/tkn-evariloscompetition

Prizes:

Winners will be declared for categories providing there are sufficient number of candidates. For each category the winner will be awarded with 500 €.

Contact Information

For more information and clarification, please contact:

Track 2:
Eli De Poorter (**eli.depoorter@intec.ugent.be)**
Track 3:
Vlado Handziski (**handzisk@tkn.tu-berlin.de)**
Filip Lemić (**lemic@tkn.tu-berlin.de)**

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