ISSRE 2005 will focus on tools, strategies, experience reports, and theory that can contribute to high reliability in ubiquitous mobile applications: (1) model-based verification and validation of distributed mobile applications and platforms, (2) estimation and prediction of end-to-end dependability, and (3) design for mobile robustness and security. ISSRE is big enough to represent all the key topics in software reliability engineering, but small enough for a high level of participant interaction. A balance of research and industry participation offers content with practical as well as scientific validation.

ISSRE 2005 welcomes submissions for regular papers, workshops, industry reports, and student papers that address the following.

- Software reliability models, empirical studies, and modeling techniques
- Software safety analysis
- Formal reliability assurance methods
- Model-based verification, validation, and testing
- Fault-tolerant and robust software
- Security testing and quantitative characterization
- Distributed test environments for mobile applications
- Operational profiles of mobile user populations
- Integration of RF propagation models with end-to-end reliability models
- Automatic and in-situ RF survey and monitoring
- Collection and interpretation of end-to-end quality of service metrics
- Reliability modeling and testing of
  - handset power management and provisioning
  - mobile ad hoc networks (MANETs)
  - high-latency (satellite) channels with mobile ground stations
  - bandwidth-intensive (e.g., video) mobile applications
  - mobile PAN, LAN, MAN, or WAN over WiFi, WiMax, GSM, or CDMA
  - integrated WiFi, WiMax, GSM, CDMA, VOIP
  - multi-stack (e.g. WiFi and GSM) failure modes
ISSRE 2005
High Reliability for Ubiquitous Mobile Applications
16th IEEE INTERNATIONAL SYMPOSIUM on SOFTWARE RELIABILITY ENGINEERING
November 8–11, 2005
Chicago, Illinois (USA)
http://rachel.utdallas.edu/issre/

About ISSRE
ISSRE is the leading conference about the practice and theory of software reliability engineering. Ubiquitous information technology is an inevitable result of steady improvement in mobile computing platforms, innovation in human-computer interfaces, and increasing wireless network capacity. These advances will have far-reaching social consequences. Soon, most everyday things will have built-in mobile information technology, including clothing, jewelry, vehicles, structures, and open spaces. With ubiquity, high reliability is more important than ever.

ISSRE 2005 will be held in Chicago, a vibrant city with a dazzling array of entertainment and cultural attractions. Direct flights arrive in Chicago from all major international airports daily.

Submissions
Details of the submission process and proposal guidelines are available on the conference website.

Regular Papers. Papers should not exceed 20 single-column one-and-half spaced pages, written in English. If the two column camera-ready format is used, it should not exceed 10 camera-ready pages. The paper should be submitted electronically, either in postscript or PDF format, using the conference website. Submissions must be unpublished and must not be submitted for publication elsewhere.

Industry Reports. Proposals to present case studies explaining techniques and process achieving high reliability in mobile applications are requested.

Workshops, Tutorials, Fast Abstracts, and Student Papers. Proposals for presentations related to the conference theme are requested.

Submission Deadlines
Regular papers: May 1, 2005
Tutorial and Panel Proposals: July 1, 2005
Workshops, Industry Reports, Fast Abstracts and Student Papers: August 1, 2005

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