2012 Workshop on Dependable Transportation Systems/Recent Advances in Software Dependability

(WDTS-RASD 2012)

Niigata, Japan
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# 2012 Workshop on Dependable Transportation Systems/Recent Advances in Software Dependability

## WDTS-RASD 2012

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## Workshop on Dependable Transportation Systems (WDTS 2012)

### Regular Papers

**SafeCap Domain Language for Reasoning about Safety and Capacity**

*Alexei Iliasov and Alexander Romanovsky*

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**Next Generation OS for Railway Signalling Safety Devices - Development of Exclusive Double Thread OS (EDTOS)**

*Fumihito Higuchi and Masaya Mori*

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**Formalizing and Analyzing the Train-to-Wayside Network System for CBTC**

*Guo Xie, Xinhong Hei, Hiroshi Mochizuki, Sei Takahashi, and Hideo Nakamura*

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## Workshop on Recent Advances in Software Dependability (RASD 2012)

### Session 1

**A Bootstrap Method for Software Reliability Assessment Based on a Discretized NHPP Model**

*Shinji Inoue and Shigeru Yamada*

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**A Note on Static Software Reliability Models by GMDH: Comparison with a Multiple Regression Model**

*Mitsuhiko Kimura and Ryohei Shimada*

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**Optimal Inspection First and Last Policies for a Computer System**

*Xufeng Zhao, Syouji Nakamura, and Toshio Nakagawa*
Session 2

Security Evaluation for Software System with Vulnerability Life Cycle and User Profiles

Hiroyuki Okamura, Masataka Tokuzane, and Tadashi Dohi

Session 3

Optimal Policy of a Server System with Replication Buffering Relay Method

Mitsutaka Kimura, Mitsuhiro Imaizumi, and Toshio Nakagawa

Towards Development of Risk-based Checkpointing Scheme Via Parametric Bootstrapping

Shunsuke Tokumoto, Tadashi Dohi, and Wong Young Yun

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