2024 OkIP International Conference on Software Engineering Research & amp; Development (SERD)

Tuesday, 1 October 2024 - Thursday, 3 October 2024 Tiako Center, Oklahoma City, OK, USA & amp; Online

Scientific Tracks

General and Social Aspects of Software Engineering (SE)

Program Analysis, Synthesis, and Repair Programming Languages and Compilers Specification and Modeling Languages **Tutoring, Documentation Systems** Software Engineering Standards and Guidelines Software Economics and Metrics Empirical Software Engineering Green and Sustainable SE Theoretic Approaches of SE Domain Modeling and Meta-modeling Aerospace Software and System Engineering Architectural Analysis and Verification Methods Enterprise Software, Middleware, and Tools Quality Oriented Software Architecture Reverse and Architectural Recovery Methods Domain-Specific Software Engineering Software Project Management Issues Measurement and Empirical SE

Software Design, Testing, Evolution, and Maintenance

Software Design and Design Patterns Software Evolution and Maintenance Software Modeling and Design Software Development(SD) | Process Modeling Formal Methods in SE | Software Product Lines Software Engineering Methodologies Software Reuse and Reverse engineering **Configuration Management and Deployment** Crowdsourcing Software Engineering Model-Based Software Engineering Software Testing and Fault localization Agile Software Engineering and Development Validation and Verification **Requirement Engineering and Processes** Software Testing | Software Metrics **Evaluation and Analysis Technologies**

Formal Methods and Theoretical Foundations

Software Specification/Development/Analysis/Verification Theoretical Computer Science Fundamentals Logic Calculi | Formal Languages |Automata Theory Control Theory | Program Semantics | Type Systems/Theory Theorem Provers | Programming Language Semantics Denotational/Operational/Axiomatic Semantics Sign-off Verification | Human-Directed Proof Automated Proof | Verifier Verification Specification Languages | Model Checkers Visual Specification | Formal Techniques Systems Level Specification | Reactive Systems Modeling Model Checking Concepts/Principles/Algorithms/Tools Linear time Temporal Logic Critical Systems Design Verification Approaches/Tools for Verification/Validation Requirements Formalization | Formal Specification Usability/Case-studies/Applications of Formal Methods

Programming Languages (PLs), Systems, and Environments

Programming Languages and Perspectives Object- Oriented (OO) Design and Analysis OO technologies, systems and, applications. Distributed Systems Composition PLs Practical/Theoretical Investigations Systems Practical/Theoretical Investigations Environments Practical/Theoretical Investigations PLs Requirement/Modeling/Prototyping/Design PLs Implementation/Generation/Analysis PLs Verification/Testing/Evaluation/Maintenance OO Systems Modeling/Testing New Tools/Techniques Development Inovative Principles and Evaluations Methods UML/MDA and AADL OO Distributed Systems Modeling/Testing

Service Orientation and Human Interactions

Formal Methods and Theoretical Foundations Service-Oriented Software Architectures Service-Oriented Requirements Engineering Middleware for Service-Based Systems Service Discovery and Composition Software services | Software visualization Human-Computer Interaction Usability Engineering | Gamification Multimedia in Software Engineering End-user software engineering Human and social aspects of SE

AI, Web-Based Environments, and Adaptive Systems

2024 OkIP International Conference on Software Engineering Research & Comparison (SERD) / Scientific Tracks

Multi-Agent Systems | Mobile Agents Al approaches to SE Agent Architectures & Ontologies Languages and Protocols Intelligent CASE Tools and Issues Mining Software Engineering Repositories E-Commerce Solutions and Applications Mobile Commerce Tech. and Applications Web, Text Mining, and Semantic Web Autonomic Computing and Adaptive Systems Automated Software Engineering Automated Software Design and Synthesis Mobile applications Search-based Software Engineering

Emerging SE Technologies and Dependability

Case Studies and Emerging Technologies Novel Software Tools and Environments Pervasive SE and Mission Critical Systems Trust, Reliability, and Survivable Systems Software Assurance and Dependability Software Reliability and Security Methods Engineering of Safety

Distribution, Componentization, and Collaboration

Formal Methods and Theoretical Foundations Component-Based Software Engineering Critical and Embedded Software Design Distributed and Parallel Systems Real-time Embedded Software Engineering Cloud Computing | Distributed SE Distributed and collaborative SE Workflow Management | Team-Based SD Computer-Supported Cooperative Work Middleware, Frameworks, and APIs Parallel, Distributed, and Concurrent Systems Aspect-Oriented Software Engineering