# List of Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>AMSMT</td>
<td>Architectural Model Slicing through MDG Traversal</td>
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<tr>
<td>ASF</td>
<td>Apache Software Foundation</td>
</tr>
<tr>
<td>ADL</td>
<td>Architectural Description Language</td>
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<tr>
<td>ATGSD</td>
<td>Automatically Test Sequences Generation from Sequence Diagram</td>
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<tr>
<td>BP</td>
<td>Basic Profile</td>
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<tr>
<td>BSP</td>
<td>Basic Security Profile</td>
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<tr>
<td>B-Model</td>
<td>Behavior Model</td>
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<tr>
<td>BAS</td>
<td>Bookshop Automation Software</td>
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<td>BFS</td>
<td>Breadth First Search</td>
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<td>BPD</td>
<td>Business Process Diagram</td>
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<tr>
<td>BPM</td>
<td>Business process modeling</td>
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<tr>
<td>BPMN</td>
<td>Business Process Modeling Notation</td>
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<tr>
<td>COD</td>
<td>Cash On Delivery</td>
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<tr>
<td>CC</td>
<td>Common Components</td>
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<tr>
<td>CD</td>
<td>Communication diagram</td>
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<tr>
<td>CCFG</td>
<td>Concurrent Control Flow Graph</td>
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<tr>
<td>CFG</td>
<td>Control Flow Graph</td>
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<tr>
<td>DFS</td>
<td>Depth First Search</td>
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<tr>
<td>DSAS</td>
<td>Dynamic Software Architecture Slicing</td>
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<tr>
<td>DOM</td>
<td>Document Object Model</td>
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<tr>
<td>DTD</td>
<td>Document Type Definition</td>
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<tr>
<td>EFSM</td>
<td>Extended Finite State Machine</td>
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<tr>
<td>ESB</td>
<td>Enterprise Service Bus</td>
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GPL: General Public License
GUI: Graphical User Interface
GCD: Greatest Common Divisor
HAS: Hotel Automation Software
HRS: House Rental Software
JIS: Judiciary Information System
LGPL: Lesser General Public License
LIS: Library Information System
LOT: Lines of Tag
LTL: Linear Temporal Logic
MBGDS: Marking Based Global Dynamic Slicing
MSAS: Medicine Shop Automation Software
MEP: Message Exchange Pattern
MDG: Model Dependency Graph
MPSS: Motor Parts Shop Software
MGCAS: Municipality Garbage Collection Automation Software
OCL: Object Constraint Language
OMG: Object Management Group
OSS: Online Shopping System
OWL: Web Ontology Language
OFS: Order Fulfillment Service
OASIS: Organization for the Advancement of Structured Information Standards
PDG: Program Dependence Graph
POS: Purchase Order Service
QoS: Quality of Service
RRS: Railway Reservation Software

REST: Representational State Transfer

RQ: Research Question

RDF: Resource Discovery Framework

RAS: Restaurant Automation System

RRTS: Road Repair and Tracking System

SADG: Software Architectural Dependency Graph

SDT: Sequence Dependency Table

SDG: Sequence Diagram Graph

ATGSD: Sequences Generation from Sequence Diagram

SCEH: Service Choreography Execution History

SEC: Service Execution Case

SEH: Service Execution History

SEP: Service Execution Point

SI: Service Interface

SIDG: Service Interface Dependency Graph

SLA: Service Level Agreement

SoaML: Service oriented architecture Modeling Language

SUT: Service Under Test

SOA: Service-Oriented Architecture

SOC: Service-Oriented Computing

SOS: Service-Oriented Software

SOSC: Service-Oriented Software Choreography

SOSDG: Service-Oriented Software Dependence Graph

SOAP: Simple Object Access Protocol
SADG: Software Architectural Dependency Graph
SCCS: Software Component Cataloguing Software
SaaS: Software-as-a-Service
SSSIM: Static Slicing of Service Interface Model
SCG: Structured Composite Graph
SAMS: Students Auditorium Management Software
SAS: Supermarket Automation Software
STDG: Synchronous Threaded System Dependence Graph
SDG: System Dependence Graph
STG: System Testing Graph
tModel: technical Model
TCGA: Test Case Generation Algorithm
UIG: UML interaction graph
UML: Unified Modeling Language
UDDI: Universal Description Discovery and Integration
UDG: Use case Diagram Graph
UTG: UML behavioral Test case Generator
WS-BPEL: Web Service Business Process Execution Language
WS-CDL: Web Service Choreography Description Language
WSCFG: Web Service Control Flow Graph
WSDG: Web Service Description Graph
WSDL: Web Service Description Language
WWW: World Wide Web
W3C: World Wide Web Consortium
WS-I: Web Service Interoperability
**XMI:** XML Metadata Interchange

**XSD:** XML Schema Definition

**XSLT:** eXtensible Stylesheet Language Transformations