

Software Engineering for Connection Services: BIBLIOGRAPHY

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September 2004

1 New trends in connection services

For issues and terminology, see [LY02, RPM00].

2 Feature interaction in telecommunication systems

Most of the research in this area has been published in the proceedings of the workshop series [AL94, BV94, CM00, CO95, DBL97, KB98]. The most-referenced survey is [CGL⁺93].

Velthuisen gives an excellent snapshot of the early research [Vel95]. [Hal00] is a noteworthy case study. You can see some typical attempts at feature modularity in [PR00, PR98, Pre03].

3 Requirements modeling

These papers provide a perspective on how formal models concerning software requirements should be constructed, and why: [GGJZ00, JZ95, ZJ97].

4 Alloy

Two fundamental papers on Alloy are [Jac00, JSS01]. See the Alloy Web site for up-to-date information.

5 Distributed Feature Composition (DFC)

The fundamental references on DFC are [JZ01, JZ98]. The implementation is described in [BCP⁺04].

The research papers most relevant to the lectures are [Zav04] (Lecture 3), [ZGS04] (Lecture 4), [Zav03a, ZJ02] (Lecture 5), [Zav03b] (Lecture 6).

When they become available, new papers and other references on DFC are posted on the DFC Web site [DFC]. In particular, a paper on Lecture 2 will soon appear there.

6 Spin

The Spin model checker is well-engineered and easy to use. Its modeling language is called Promela. All versions of the DFC protocol have been modeled in Promela and checked extensively using Spin.

For up-to-date information, see the Spin Web site.

7 Internet design and routing

I have found the following references to be illuminating: [BC01, BM04, FH04, Fea03, FB03, SRC84, WLG98, XZM⁺04].

8 The Session Initiation Protocol (SIP)

SIP is currently the dominant voice-over-IP protocol. Read about it in [RSC⁺02, RS00].

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