

# Workshop on Application of Software Design Patterns and Idioms

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## 1. ABSTRACT

**This workshop will focus on the use of design patterns and Ada-95 idioms in actual software development projects. The results will be documented as lessons learned and guidelines for use in future projects.**

### Keywords

Design pattern, Idioms, Ada-95

## 2. GOALS AND FOCUS

Within the software community, the interest on design patterns has been growing at a phenomenal pace. There have been numerous publications describing various design patterns for solving many different problems. The goal of this workshop is to provide a forum for discussion and understanding among software practitioners, who have successfully applied design patterns in developing commercial or industrial software. The ultimate objective is to capture and articulate knowledge, experience and lessons learned in applying design patterns in a wide variety of application domains.

Each workshop participant will be invited to make a short presentation, during the workshop, describing his/her work experience and address problems and future directions. The workshop participants will discuss the issues raised during these presentations and formulate solutions and recommendations.

The focus of this workshop will be on application of existing and published design patterns, rather than

introducing new ones. Patterns that have failed to achieve their objectives (antipatterns) will also be discussed. Additionally, the workshop will focus on interesting and innovative idioms in Ada-95. Presentations describing implementations of design patterns in Ada95 will be of special interest.

## 3. WORKSHOP PARTICIPATION

This workshop is intended for people who are engaged on, or are contemplating the use of design patterns in actual software development work. Anyone interested in participating in this workshop should submit a position paper describing his/her experiences, or interest in using design patterns. Experience involving Ada-95 idioms will also be of interest. The number of participants will be limited to 15.

## 4. CRITERIA FOR PARTICIPANT SELECTION

Participant selection will be based primarily on the strength of the submitted position papers. The majority of the participants will be selected based on their knowledge, experience and potential for making valuable contributions to the workshop. The need to achieve a balance across different types of problems and varied application domains will be a factor in participant selection. In addition to the regular participants, the co-ordinators will invite a number of experts to participate in the workshop. Space permitting, one or two stand-by spots may be available for last minute participation; please contact the workshop co-ordinators for details.

## 5. RESULTS

The results of the workshop will be presented in a Workshop Report Session and will also be published through SigAda (WebPages and the newsletter).