

# Programming Languages for State Manipulation Bibliography

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The following reading list is based on a course taught by S. N. Kamin and U. S. Reddy during Spring 1993 at the University of Illinois at Urbana-Champaign.

## 1 Introduction

- State, Review of lambda calculus ( $\frac{1}{2}$ )

## 2 Algol-like languages

- Language concepts (2) [Reynolds, 1981b; Reynolds, 1988].
- Operational semantics ( $\frac{1}{2}$ ) [Weeks and Felleisen, 1993].
- Denotational semantics ( $1\frac{1}{2}$ ) [Meyer and Sieber, 1988; Reynolds, 1981b; Tennent, 1991; O'Hearn and Tennent, 1992; O'Hearn and Tennent, 1993].
- Interference control (1) [Reynolds, 1978; Reynolds, 1989; O'Hearn, 1991].
- Program Logics (?) [Reynolds, 1981a]

## 3 ML-like languages

- Language review ( $\frac{1}{2}$ )
- Operational semantics ( $\frac{1}{2}$ ) [Harper *et al.*, 1987; Harper *et al.*, 1986].
- Monad semantics (1) [Moggi, 1991].
- Equational theories (2) [Felleisen and Friedman, 1989; Felleisen and Hieb, 1992; Mason and Talcott, 1991; Mason and Talcott, 1992a].
- Program logics ( $\frac{1}{2}$ ) [Mason and Talcott, 1992b].
- Effects and Interference (?) [Lucassen and Gifford, 1988; Leroy and Wies, 1990].

## 4 Lazy functional languages

- Single-threaded lambda calculus ( $\frac{1}{2}$ ) [Guzman and Hudak, 1990]
- Continuation-based approaches (1) [Swarup *et al.*, 1991; Hudak, 1992]
- Monad-based approaches (1) [Wadler, 1992; Odersky *et al.*, 1993; Peyton Jones and Wadler, 1993].

## 5 Concurrent systems

- CSP (1) [Hoare, 1985].
- CCS ( $\frac{1}{2}$ ) [Milner, 1989].
- pi-calculus ( $\frac{1}{2}$ ) [Milner *et al.*, 1989; Milner, 1991; Milner, 1990].

## 6 Novel approaches

- Linear logic (1) [Wadler, 1990; Wadler, 1991].
- Objects and Local state (1) [Shapiro and Takeuchi, 1986; Reddy, 1993a; Reddy, 1993b]

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