

Contents

G. Longo	
Coherence and Valid Isomorphisms in Closed Categories	1
U. Montanari and D.N. Yankelevich	
An Algebraic View of Interleaving and Distributed Operational Semantics for CCS	5
R. Casley, R.F. Crew, J. Meseguer and V. Pratt	
Temporal Structures	21
E.W. Stark	
Compositional Relational Semantics for Indeterminate Dataflow Networks	52
L. Cardelli and J.C. Mitchell	
Operations on Records	75
J. Hughes	
Projections for Polymorphic Strictness Analysis	82
E. Moggi	
A Category-theoretic Account of Program Modules	101
G.C. Wraith	
A Note on Categorical Datatypes	118
K. Petersson and D. Synek	
A Set Constructor for Inductive Sets in Martin-Löf's Type Theory	128
T. Streicher	
Independence Results for Calculi of Dependent Types	141
P. Taylor	
Quantitative Domains, Groupoids and Linear Logic	155
R.A.G. Seely	
Graded Multicategories of Polynomial-time Realizers	182

B. Jacobs	
On the Semantics of Second Order Lambda Calculus: From Bruce-Meyer-Mitchell Models to Hyperdoctrine Models and Vice-Versa	198
T. Ehrhard	
Dictoses	213
A. Filinski	
Declarative Continuations: An Investigation of Duality in Programming Language Semantics	224
R. Harper, D. Sannella, A. Tarlecki	
Logic Representation in LF	250
F. Baader	
Unification Properties of Commutative Theories: A Categorical Treatment	273
A.J. Power	
An Abstract Formulation for Rewrite Systems	300
N. Martí-Oliet and J. Meseguer	
From Petri Nets to Linear Logic	313
V.C.V. de Paiva	
A Dialectica-like Model of Linear Logic	341
P. Aczel and P.F. Mendler	
A Final Coalgebra Theorem	357