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Mobility Reading Group

mrg.doc.ic.ac.uk
Selected Publications 2015/2016

• [CC’16] Nicholas Ng, NY: Static Deadlock Detection for Concurrent Go by Global Session Graph Synthesis.
• [POPL’16] Dominic Orchard, NY: Effects as sessions, sessions as effects.
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• [CC’16] Nicholas Ng, NY: Static Deadlock Detection for Concurrent Go by Global Session Graph Synthesis.
• [POPL’16] Dominic Orchard, NY: Effects as sessions, sessions as effects.
• [CONCUR’15] Laura Bocchi, Julien Lange, Nobuko Yoshida: Meeting Deadlines Together.
module examples;

global protocol HelloWorld(role Me, role World) {
  hello() from Me to World;
  choice at World {
    goodMorning() from World to Me;
  } or {
    goodAfternoon() from World to Me;
  }
}
Applications

OOI Governance

ZDLC: Process Modeling

Protocol Verification

MPI code generations
Dynamic Monitoring
[RV’13, COORDINATION’14, FMSD’15]

Global Type

Projection

Local Type

Dynamic Monitoring
Program Alice

Dynamic Monitoring
Program Bob

Dynamic Monitoring
Program Carol
Type Checking [OOPSLA’15, POPL’16]

Global Type

Projection

Local Type

Type Checking

Program Alice

Type Checking

Program Bob

Type Checking

Program Carol
**Code Generation** [CC’15, FASE’16]
Synthesis

[ICALP'13, POPL'15, CONCUR'15, TACAS'16, CC'16]