Comparing three coordination models: Reo, ARC, and RRD.

Summary: Three models of coordination – Reo, actors-roles-coordinators (ARC), and reflective Russian dolls (RRD) – are compared and contrasted according to a set of coordination features. Mappings between their semantic models are defined. Use of the models is illustrated by a small case study.

For the entire collection see [Zbl 1276.68010].

MSC:
- 68Q85 Models and methods for concurrent and distributed computing (process algebras, bisimulation, transition nets, etc.)
- 68Q55 Semantics in the theory of computing

Keywords:
- coordination model
- semantics
- Reo
- actor
- role
- reflective Russian dolls

Software:
- LIME; Linda; Reo; PAGODA; KLAIM

Full Text: DOI

References:
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[16] Mason, I.A.; Talcott, C.L., Actor languages their syntax, semantics, translation, and equivalence, Theoretical computer science,

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