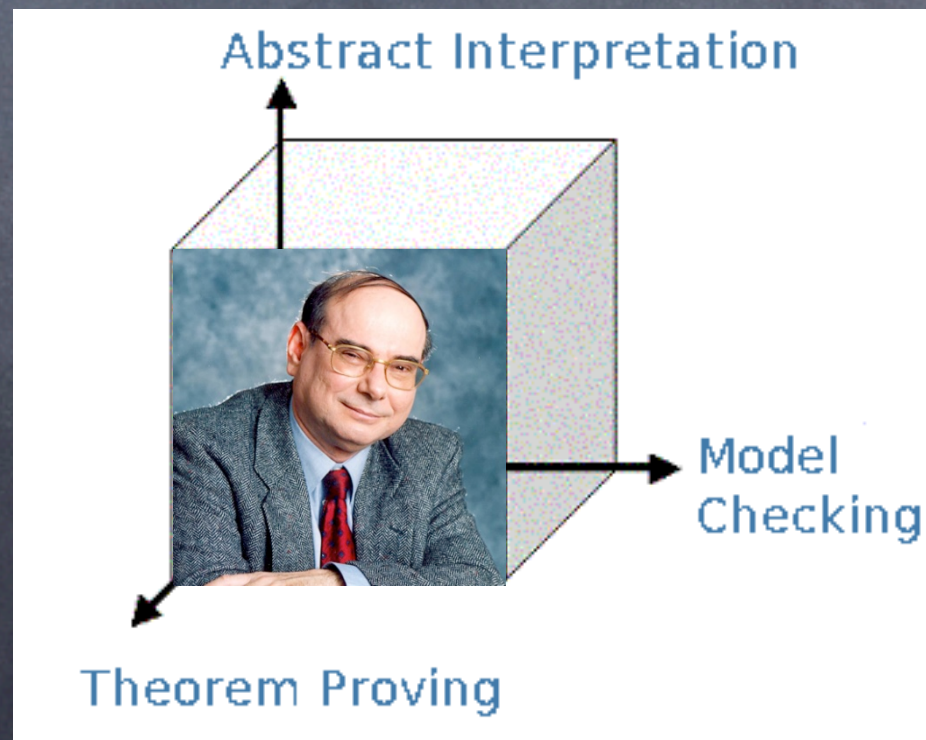


The Axis of ACSys





Analysis of Computer Systems Group



Mission

[ACSys Home](#)

[People](#)

[Research](#)

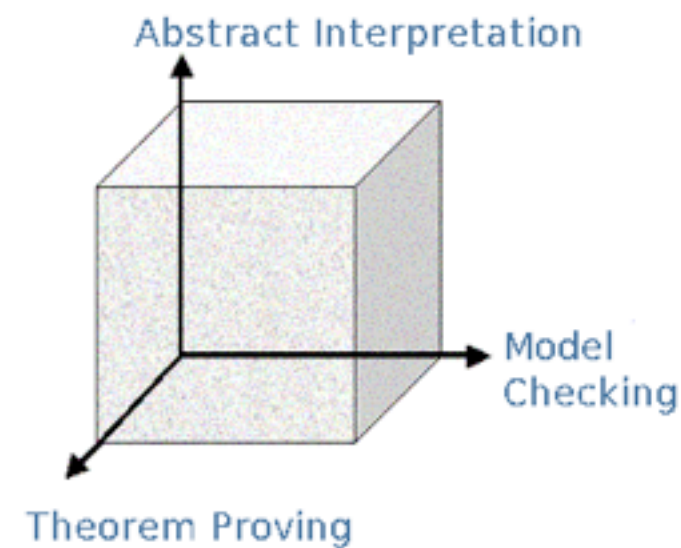
[Publications](#)

[Tools](#)

[Courses](#)

[Events](#)

Ensuring provably correct,
reliable, and trustworthy
software and hardware designs.

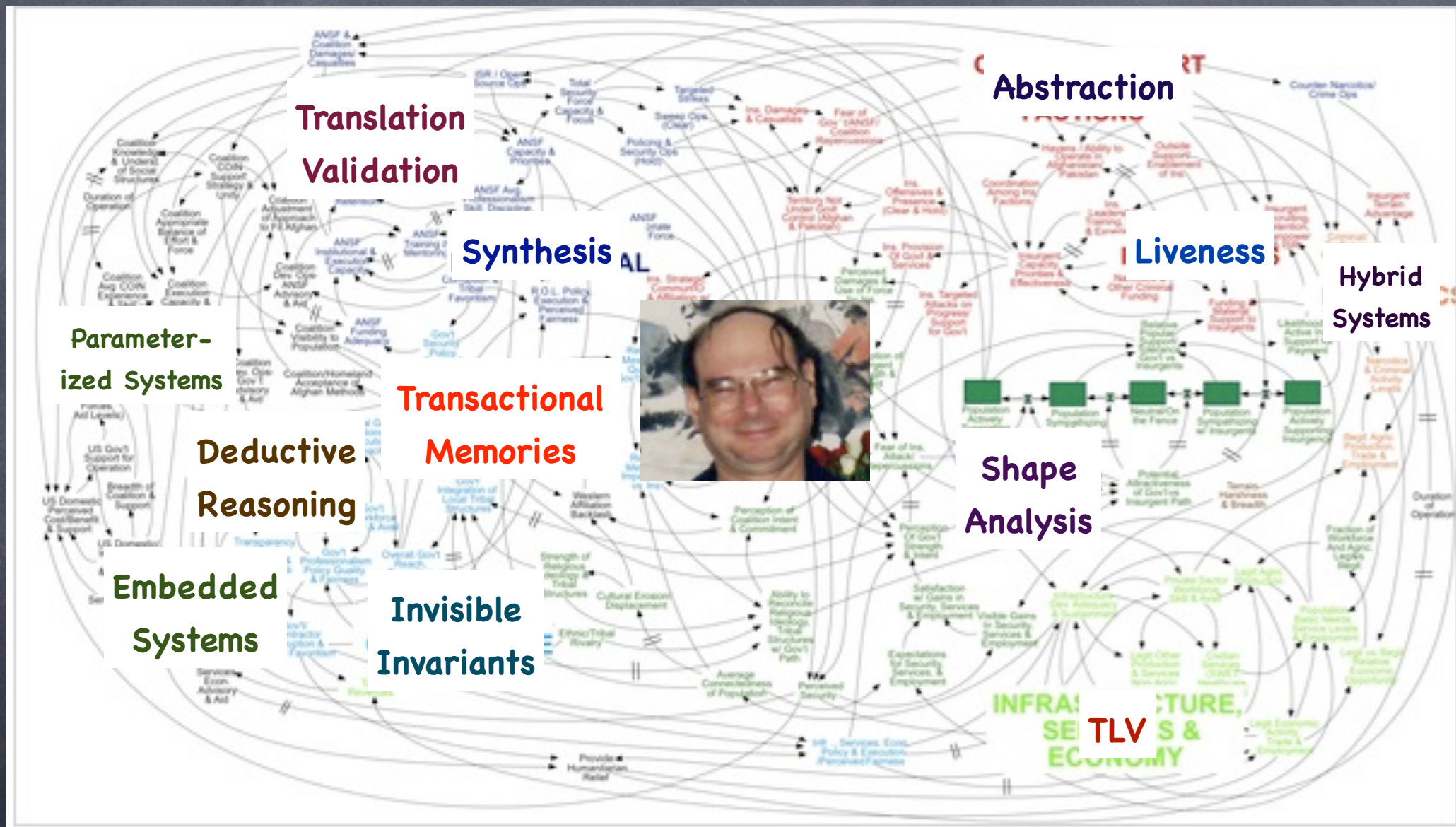


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Amir's Roles in ACSys



How Amir Liked Things to Work

What we Really worked on

- Translation Validation
- Parameterized Systems
 - Invisible Invariants
 - Counter Abstraction
 - Network Invariants
 - Invisible Ranking

And also...

- Automatic Ranking
- Shape(less) Analysis
- Deductive Verification (for automation)
- Run-time Verification
- Synthesis
- TLV
- Testers (PSL)
- Transactional Memories

Things Didn't Always
Come Easy

Things Didn't Always Come Easy

Task	Equipment	Time
Construction of Inductive Assertions	2 Professors of Computer Science	40 hours

Things Didn't Always Come Easy

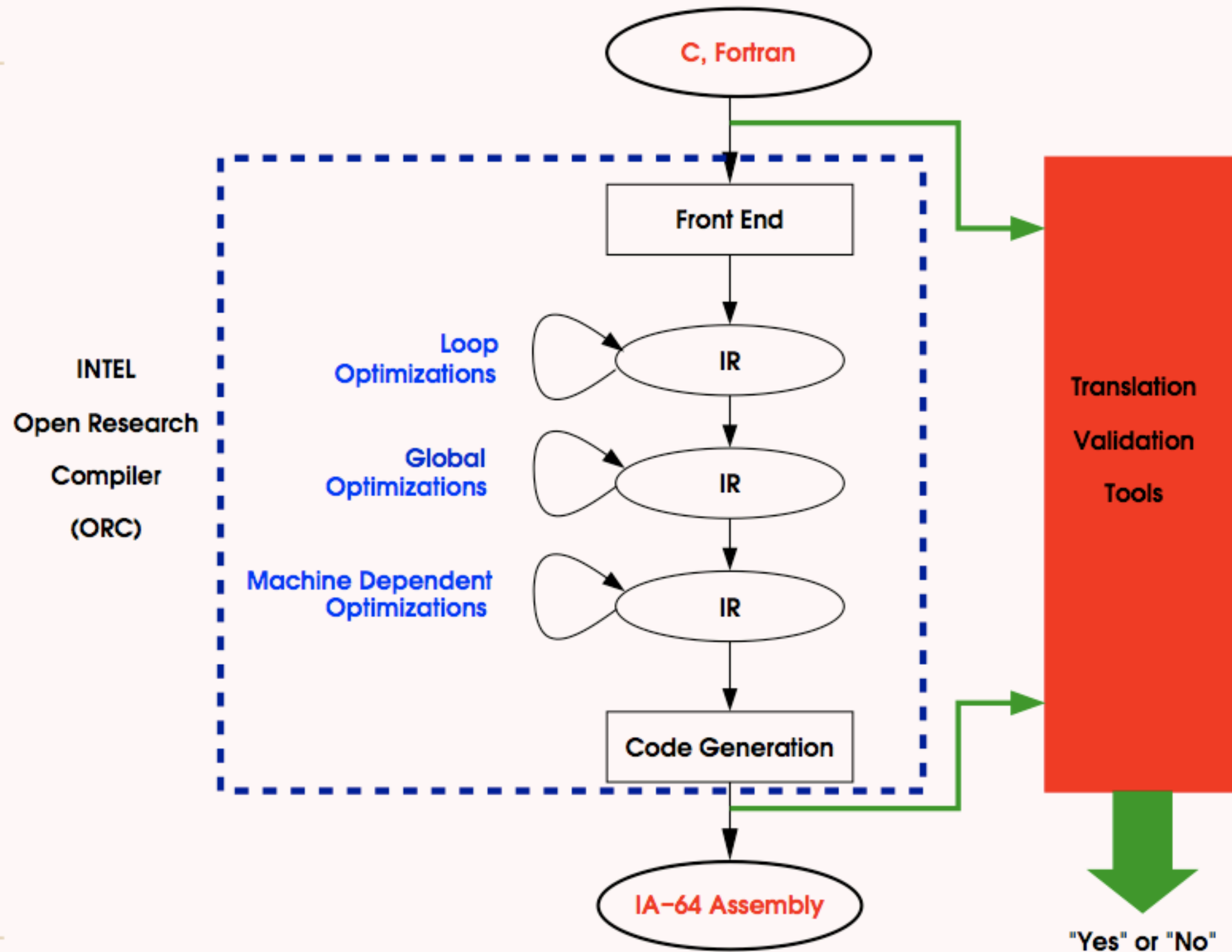
Task	Equipment	Time
Construction of Inductive Assertions	2 Professors of Computer Science	40 hours

Task	Equipment	Time
Construction of Inductive Assertions	1 non Professor of Computer Science	4.578s generate .1s prove

ACSys in Action: TV

- Amir: Initial Basic Vision
- Ben: Compiler Knowledge
- Yi: Initial Implementation
- Ying: Loop Optimizations
- Clark: Theorem Proving
- Ittai: WWW-ing
- (Lenore: Cracking the Whip)

Overview of an Ideal TVOC



A Fair Transition System



Justice={silence,
humour,
great idea}

Amir's Roles

