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## ICT Action COST IC0901

### Rich-Model Toolkit - An Infrastructure for Reliable Computer Systems

Descriptions are provided by the Actions directly via e-COST.

The main objective is making automated reasoning techniques and tools applicable to a wider range of problems, as well as making them easier to use by researchers, software developers, hardware designers, and information system users and developers. The Action coordinates activities on developing infrastructures for automated reasoning about the new notion of Rich Models of computer systems. Rich Models have the expressive power of a large fragment of formalizable mathematics, enabling specification of software, hardware, embedded, and distributed systems. Rich Models support modeling at a wide range of abstraction levels, from knowledge bases and system architecture, to software source code and detailed hardware design. The Action contributes to the construction of Rich-Model Toolkit, a new unified infrastructure that precisely defines the meaning of Rich Models, introduces standardized representation formats, and incorporates a number of automated reasoning tools. Moreover, the Action develops and deploys new tools for automated reasoning that communicate using these standardized formats. The resulting tools will have a wide range of applicability and improved efficiency, helping system developers construct reliable systems through automated reasoning, analysis, and synthesis.

#### Information and Communication Technologies COST Action IC0901

- ▶ **Description**
- ▶ Parties
- ▶ Management Committee



#### General Information\*

**Chair of the Action:**

[Prof. Viktor KUNCAK](#) (CH)

**Vice Chair of the Action:**

[Prof. Roderick BLOEM](#) (AT)

**DC Rapporteurs:**

[Dr Gideon ARIELY](#) (IL)

**Science officer of the Action:**

[Mr Ralph STUEBNER](#)

**Administrative officer of the Action:**

[Ms Aranzazu SANCHEZ](#)

#### Downloads\*

**Action Fact Sheet**

[Download AFS as .RTF](#)

**Memorandum of Understanding**

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**Progress Report**

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#### Websites\*

**Action website:**

<http://richmodels.org>

**Domain website:**

<http://www.cost.eu/ict>

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#### Publications

- ▶ International School of Quantum Electronics: 43rd Course - Matter in Super-Intense Laser Fields
- ▶ European Perspectives & Randstad Holland: Synergy in Urban Networks
- ▶ Recherche et développement - La recherche industrielle alimentaire dans les pays de la communauté Européenne - 1re Partie
- ▶ more...

#### Videos

- ▶ COST Foresight 2030 - Aubrey de Grey
- ▶ COST Foresight 2030 - Melae Langbein
- ▶ COST Foresight 2030 - Magdalena Radwanska



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