

2016 1st CPSWeek Workshop on Declarative Cyber-Physical Systems (DCPS 2016)

**Vienna, Austria
12 April 2016**



**IEEE Catalog Number: CFP16H04-POD
ISBN: 978-1-5090-1151-3**

**Copyright © 2016 by the Institute of Electrical and Electronics Engineers, Inc
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

******This publication is a representation of what appears in the IEEE Digital Libraries. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP16H04-POD
ISBN (Print-On-Demand):	978-1-5090-1151-3
ISBN (Online):	978-1-5090-1150-6

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

DCPS 2016: The First CPSWeek Workshop on Declarative Cyber-Physical Systems

Table of Contents

Message from the Chair.....	iv
Program Committee.....	v
Keynote Abstract.....	vi

TECHNICAL PROGRAM

7:45am Registration starts

10:00am-11:00pm Keynote:

Models, Over-approximations and Robustness.....N/A

Eugenio Moggi

11:00pm-12:00pm Session 1:

P-FRP Task Scheduling: A Survey.....1

Xingliang Zou, Albert Cheng and Yu Jiang

Real-time Capabilities in Functional Languages.....9

Jeffrey Murphy, Bhargav Shivkumar and Lukasz Ziarek

12:00pm-1:30pm Lunch

1:30pm-3:30pm Session 2:

Architecture for Logic Programming with Arrangements of Finite-State Machines.....19

Vlad Estivill-Castro, Rene Hexel and Alberto Ramirez-Regalado

Dependability Assessment of Networked Embedded Software Systems.....27

Kaliappa Ravindran

Open Discussions on Declarative CPS

3:30pm-4:00pm Coffee/Tea

4:00pm-6:00pm CPSWeek Poster Session

6:00pm-8:00pm CPS Community Forum
