

AutoSoft 2014 - CFP

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... Apologies for multiple copies due to cross-posting ...  
... Please forward to colleagues and students who might be interested ...

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1st Call for Papers and Participation  
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5th Workshop on Autonomous Software Systems - AutoSoft 2014 at CBSOFT  
September 28, 2014, Maceió - Brazil  
<http://www.autosoft.pcs.usp.br/>  
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Important Dates:

June 23, 2014 Paper Submission Deadline  
July 17, 2014 Notification about submissions  
July 24, 2014 Camera ready copy  
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Call for papers and Participation

----- Motivation

Many systems no longer depend on the traditional human operator to achieve some or all of the complex properties and adaptable behaviour patterns necessary to meet demanding operational situations. Prime drivers for this shift toward systems that comprise minimal or no human element are the benefits of enhanced system performance, reduced life cycle costs and the ability to operate in hazardous or remote environments.

In this sense, autonomous systems represent the next great step in the fusion of computing, sensing, and software to create intelligent systems capable of interacting with the complexities of the real world. The transition from passive to autonomous components turned software architectures into complex platforms that may contain many components that dynamically interact, and engage in complex coordination protocols. Transportation, aerospace, defense and finance are amongst some of the sectors shifting towards replacing the human operator by architectures and implementation technologies that are intended to provide overall system improvements.

----- Goals

An important goal of this workshop is to extend the state of the art in both engineering and application in the context of autonomous systems. The main idea is to bring together researchers and practitioners, involved in the development of techniques and applications of Autonomous Software Systems, to discuss the latest developments, trends and innovations concerning the theory and practice of such software.

----- Topics of Interest

The workshop will encourage submissions related to all topics in the area of Autonomous Software Systems, including (but not limited to) the following:

- Agent systems and agent-oriented software engineering
- Autonomous systems simulation
- Domain-specific applications of autonomous software systems
- Embedded systems
- Emergent intelligence for autonomous systems
- Games and autonomous applications

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- Industry applications of autonomous software systems
- Infrastructures and tools for autonomous systems
- Motion planning and scheduling
- Ontologies for autonomous applications
- Robotics and automation applications
- Safety in autonomous software systems
- Semantics for autonomous negotiation, orchestration, composition and execution
- Service-oriented computing and autonomous software systems
- Trust in autonomous societies
- Unmanned systems technology
- Verification of autonomous systems

----- Chair

Ingrid Nunes: [ingrid.nunes@inf.ufrgs.br](mailto:ingrid.nunes@inf.ufrgs.br)

----- Organizing Committee

Ingrid Nunes, UFRGS, Brazil  
Mariela Inés Cortés, UECE, Brazil

----- Awards

The authors of the best papers will be invited to prepare extended versions of their papers after the workshop. The extended papers will go through an additional round of review.

The following awards will be given:

- \* Best Paper Award
  - \* Extended version will appear in the Revista de Informática Teórica e Aplicada
- RITA
  - \* All papers are eligible
- \* Best Student Paper Award
  - \* Extended version will appear in the Revista de Informática Teórica e Aplicada
- RITA
  - \* Only papers whose first author is a student are eligible.
- \* Best Undergraduate Student Paper Award
  - \* Extended version will appear in the Revista Eletrônica de Iniciação Científica (REIC)
- \* Only papers whose first author is an undergraduate student are eligible.

Submissions should indicate their eligibility for the award.

----- Format and Submissions

Authors are invited to submit either (i) technical, original papers that should not have been published or submitted to other workshops, journals or book chapters; or (ii) position papers. We encourage authors to present novel ideas, critique of existing work, and practical studies and experiments related to autonomous software systems.

Both technical and position papers should be submitted according to the SBC format. Technical papers should have at least 10 pages and must not exceed 12, and position papers should have at least 4 pages and must not exceed 6. These limits are for A4 pages including all text, references, appendices, and figures. Submitted papers can be written in Portuguese or English and must be in Adobe Portable Document Format (PDF). Please follow the guidelines established by the Brazilian Computer Society. Submissions should indicate their eligibility for the best student paper and best undergraduate student paper awards.

URL:

[http://www.sbc.org.br/index.php?option=com\\_jdownloads&Itemid=195&task=view.download&catid=32&cid=38](http://www.sbc.org.br/index.php?option=com_jdownloads&Itemid=195&task=view.download&catid=32&cid=38)

Submitted papers will be reviewed by at least three reviewers. Accepted papers will be published in conjunction of the CBSOft

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proceedings. Furthermore, the publication of a paper is subject to the registration of at least one of its authors to present it in the workshop.

Submissions must be via EasyChair at:  
<https://www.easychair.org/conferences/?conf=autosoft2014>