

## NAJAVLJUJEMO SKUPOVE




**Sponsoring Organization**

International Federation of Automatic Control (IFAC)

IFAC Technical Committee on Robotics (TC4.3)

**Co-sponsoring Organization**

Croatian Society for Communications, Computing, Electronics, Measurement and Control – KoREMA

Faculty of Electrical Engineering and Computing, Zagreb (FER-ZAGREB)

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**Home Page**

<http://www.syroco2012.org>  
 (Please check this website for the latest information.)

### 10th International IFAC Symposium on Robot Control September 5-7, 2012, Dubrovnik, Croatia



## Call For Papers

- **Meeting Scope and Objective**

The primary topics for the SYROCO 2012 will be "Robot Control in Dynamic Cooperative Scenarios". Robot control technology is widely used for space, surgery, rehabilitation, micro machine, entertainment, underwater, civil engineering, professional and domestic services, security etc. It will continue to play an increasing role in the areas of robot-robot and human-robot cooperation in various dynamic scenarios. Contributions on basic research as well as on relevant applications are included.
- **Topics of interests include, but are not limited to the followings:**
  - Haptic interaction
  - Micro/Nano manipulation
  - Robot control (adaptive, robust, learning)
  - Multi-fingered hand control
  - Sensory based robot control
  - Mobile robots and vehicles
  - Telemanipulation
  - Networked robots
  - Force and compliance control
  - Multi cooperative robot control
  - Modeling and identification
  - Humanoid robot

• Advanced Applications: space, surgery, rehabilitation, entertainment, underwater, civil engineering, security, professional and domestic services, transport and delivery etc.
- **Venue**


The Conference will take place at the modern and cosy four star hotel Valamar Lacroma Dubrovnik, which is the largest conference and spa hotel in Dubrovnik  
**Mailing Address**  
 Iva Dulčića 34, HR-20000 Dubrovnik, Croatia  
 URL: <http://www.valamar.com>
- **SYROCO2012 Secretariat**

SYROCO 2012  
 University of Zagreb, Faculty of Electrical Engineering and Computing  
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 Unska 3, HR-10000 Zagreb, Croatia  
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**E-mail:** syroco2012@syroco2012.org  
 URL: <http://www.syroco2012.org>
- **Schedule**

|                            |   |
|----------------------------|---|
| <b>November 15, 2011</b>   | Submission of invited session proposals           |
| <b>January 15, 2012</b>    | Submission of full-length papers                  |
| <b>April 15, 2012</b>      | Notification of paper acceptance                  |
| <b>May 15, 2012</b>        | Submission of final papers and early registration |
| <b>May 30, 2012</b>        | Advanced Registration                             |
| <b>September 5-7, 2012</b> | SYROCO 2012                                       |

| <p><b>NOC Vice-Chair from industry:</b></p> <p>Vjekoslav Majetic (Croatia)</p> <p><b>IPC Vice-Chair from industry:</b></p> <p>Trygve Thomessen (Norway)</p> <p><b>Members</b></p> <p><b>National Organizing Committee, NOC Members:</b></p> <p>Mato Baotić (Croatia)<br/>         Mišel Brezak (Croatia)<br/>         Marija Đakulović (Croatia)<br/>         Andreja Kitanov (Croatia)<br/>         Srećko Jurić-Kavelj (Croatia)<br/>         Ivan Marković (Croatia)<br/>         Nikola Mišković (Croatia)</p> <p><b>International Program Committee, IPC Members:</b></p> <p>Markus Vincze (Austria)<br/>         Andreas Kugi (Austria)<br/>         Robert Cupec (Croatia)<br/>         Stjepan Bogdan (Croatia)<br/>         Zdenko Kovačić (Croatia)<br/>         Mladen Crneković (Croatia)<br/>         Bojan Jerbić (Croatia)<br/>         François Chaumette (France)<br/>         Raja Chatila (France)<br/>         Thierry Fraichard (France)<br/>         Andreas Nüchter (Germany)<br/>         Rüdiger Dillmann (Germany)<br/>         Gerd Hirzinger (Germany)<br/>         Klaus Janschek (Germany)<br/>         Kostas Kyriakopoulos (Greece)<br/>         Nikos Tsourveloudis (Greece)<br/>         Amiram Moshaiov (Israel)<br/>         Bruno Siciliano (Italy)<br/>         Paolo Dario (Italy)<br/>         Cezary Zielinski (Poland)<br/>         Jorge Manuel Miranda Dias (Portugal)<br/>         Karel Jezernik (Slovenia)<br/>         Angel P. del Pobil (Spain)<br/>         Fumiya Iida (Switzerland)<br/>         Vincenzo Lippiello (Italy)<br/>         Xiaoming Hu (Sweden)<br/>         Dimos Dimarogonas (Sweden)<br/>         Hideki Hashimoto (Japan)<br/>         Yoshihiko Nakamura (Japan)<br/>         Goro Obinata (Japan)<br/>         Haruhisa Kawasaki (Japan)<br/>         Yasuharu Kunii (Japan)<br/>         Satoshi Tadokoro (Japan)<br/>         Shugen Ma (Japan)<br/>         M. Okyay Kaynak (Turkey)<br/>         Dana Kulić (Canada)<br/>         Wayne Book (USA)<br/>         Sunil Agarwal (USA)<br/>         Oussama Khatib (USA)<br/>         Tzyh-Jong Tam (USA)<br/>         Masayoshi Tomizuka (USA)</p> <p><b>National Advisory Committee, NAC Members:</b></p> <p>Zoran Vukić (Croatia)<br/>         Branko Novaković (Croatia)<br/>         Vlasta Zanchi (Croatia)</p> | <p>● <b>Registration Fees</b></p> <table border="1"> <thead> <tr> <th>FEES:</th> <th>Advance<br/>(before July, 01 2012)</th> <th>On-site</th> </tr> </thead> <tbody> <tr> <td>Full Registration</td> <td>500,00 €</td> <td>600,00 €</td> </tr> <tr> <td>Student Registration*)</td> <td>300,00 €</td> <td>360,00 €</td> </tr> <tr> <td>Accompanying Person</td> <td>120,00 €</td> <td>120,00 €</td> </tr> <tr> <td>Additional Banquet Ticket</td> <td>80,00 €</td> <td>80,00 €</td> </tr> </tbody> </table> <p>*) To be proved by an official university letter sent by fax to SYROCO'12 Secretariat. Please mark subject: SYROCO'12 Student Registration</p> <p>At least one author of every accepted paper must complete full registration fee. Author who pays the full registration fee for the paper is regard as a representative author. Payment should be done before May 15 2012. Otherwise the paper will not be included in the final event program and will not be published in the event documentation.</p> <p><b>Extra charge for Submitted Paper</b></p> <p>Basically, one paper should not exceed 6 pages. However, up to 8 pages will be accepted. If one paper includes over 6 pages, the representative author will be charged from the 7th page (100 € per one page).</p> <p>● <b>No-show Papers</b></p> <p>A paper not presented takes away a slot from another author and creates a hole in the session, which can cause serious inconvenience to the audience and the organizers. No-show papers will not appear at IFAC-PapersOnline.net.</p> <p>● <b>Invited sessions</b></p> <p>The program committee encourages the proposal of invited sessions. In particular, we welcome the proposal on a well-defined subject of meeting scope "Robot Control in Cooperative Scenarios".</p> <ul style="list-style-type: none"> <li>• In each session, four or six papers will be presented, and these papers must be original, unpublished papers.</li> <li>• The invited paper will be reviewed through a regular review process.</li> <li>• An organizer will be added as a member of International Program Committee and expected to handle invited papers.</li> <li>• The invited person also make a registration with the same process of regular sessions.</li> </ul> <p><b>Copyright Conditions</b></p> <p>The material submitted for presentation at an IFAC meeting (Congress, Symposium, Conference, Workshop) must be original, not published or being considered elsewhere. All papers accepted for presentation will appear in the Preprints of the meeting and will be distributed to the participants. Papers duly presented at the IFAC Congress, Symposia, Conferences and Workshops will be hosted on-line on the IFAC-PapersOnLine.net website. The presented papers will be further screened for possible publication in the IFAC Journals (Automatica, Control Engineering Practice, Annual Reviews in Control, Journal of Process Control, Engineering Applications of Artificial Intelligence, and Mechatronics), or in IFAC affiliated journals. All papers presented will be recorded as an IFAC Publication.</p> <p>Copyright of material presented at an IFAC meeting is held by IFAC. Authors will be required to transfer copyrights electronically. The IFAC Journals and, after these, IFAC affiliated journals have priority access to all contributions presented. However, if the author is not contacted by an editor of these journals, within three months after the meeting, he/she is free to submit an expanded version of the presented material for journal publication elsewhere. In this case, the paper must carry a reference to the IFAC meeting where it was originally presented and, if the paper has appeared on the website www.IFAC-PapersOnLine.net, also a reference to this publication.</p> | FEES:    | Advance<br>(before July, 01 2012) | On-site | Full Registration | 500,00 € | 600,00 € | Student Registration*) | 300,00 € | 360,00 € | Accompanying Person | 120,00 € | 120,00 € | Additional Banquet Ticket | 80,00 € | 80,00 € |
|---|---|----------|-----------------------------------|---------|-------------------|----------|----------|------------------------|----------|----------|---------------------|----------|----------|---------------------------|---------|---------|
| FEES:   | Advance<br>(before July, 01 2012)   | On-site  |                                   |         |                   |          |          |                        |          |          |                     |          |          |                           |         |         |
| Full Registration   | 500,00 €  | 600,00 € |                                   |         |                   |          |          |                        |          |          |                     |          |          |                           |         |         |
| Student Registration*)  | 300,00 €  | 360,00 € |                                   |         |                   |          |          |                        |          |          |                     |          |          |                           |         |         |
| Accompanying Person   | 120,00 €  | 120,00 € |                                   |         |                   |          |          |                        |          |          |                     |          |          |                           |         |         |
| Additional Banquet Ticket   | 80,00 €   | 80,00 €  |                                   |         |                   |          |          |                        |          |          |                     |          |          |                           |         |         |



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The 2012 IEEE Multi-Conference on Systems and Control (MSC 2012) will take place in Dubrovnik Palace Hotel, Dubrovnik, Croatia, on October 3 – 5, 2012. MSC 2012 includes two international conferences sponsored and promoted by the IEEE Control Systems Society:

- The IEEE Conference on Control Applications (CCA)
- The IEEE International Symposium on Intelligent Control (ISIC)

MSC 2012 areas of interest traditionally include a wide range of topics in control systems, technology, and applications. This year, in addition to such topics, we would like to address new and emerging research areas in control, such as systems of systems, robotics, intelligent autonomous systems and computational intelligence, architectures for intelligent control, control inspired by systems biology, vision in control, and control theory in psychology and sociology, as well as application of control theory in economics, next generation healthcare and healthcare delivery. Given the growing energy problems and demands, we would like to invite papers on control applications in new energy resources, and in energy grid control. In an increasingly networked world, communications, computing and control systems merge – thus networked control systems and cloud computing in control applications are also topics of special interest. We are also looking for papers dealing with fuzzy discrete event systems, quantum control and quantum feedback control. Other topics of interest include marine control systems, automotive control systems, control of constrained systems, and manufacturing systems control (planning and scheduling).

Keynote talks will be given by:

**Richard D. Braatz** - Process Systems Engineering Laboratory, MIT, USA  
**Dario Floreano** – Laboratory of Intelligent Systems, EPFL, Switzerland  
**Frank Lewis** – ARRI, The University of Texas at Arlington, USA  
**Iven Mareels** – Biomedical Engineering, The University of Melbourne, Australia

MSC 2012 will be a three-day event, preceded by a full day of Tutorials and Workshops. The conference proceedings will be included in IEEE Xplore and indexed by INSPEC and Ei-Compindex.

**TECHNICAL SPONSOR: IEEE Control Systems Society**  
**IMPORTANT DATES**

|                           |  |
|---------------------------|--|
| <b>February 10, 2012:</b> | Special Session, Tutorial, Workshop Proposals, Invited Sessions, Due |
| <b>February 10, 2012:</b> | Full Papers, Due   |
| <b>Late May, 2012:</b>    | Notification of Acceptance/Rejection                                 |
| <b>June 15, 2012:</b>     | Final, Camera Ready Papers, Due                                      |

**PAPER SUBMISSION**

Papers submitted to MSC 2012 must be original, not previously published or accepted for publication elsewhere, and they must not be submitted to any other event or publication during the entire review process. IEEE policy regarding plagiarism, self-plagiarism and duplicate submission/publication will be strictly enforced. Papers must be submitted electronically by the submission deadline through the IEEE CSS conference management system PaperPlaza at <http://css.paperplaza.net/>. Paper submissions should follow the IEEE double-column format for conferences (templates will be available on the conference Web site). A maximum of 8 pages (6 plus 2 additional pages incurring a nominal fee) are allowed for each paper, all figures and references included. Submitted papers will undergo a peer review process, coordinated by the Program Committee. Submission of a paper implies that, should the paper be accepted, at least one of the authors must register and present the paper at the conference.

**SPECIAL/INVITED SESSION PROPOSALS**

Proposals should be submitted by e-mail to the Invited Sessions Chair by the due date. A *special/invited session proposal* should contain the session organizer(s) short bio and contact information, the special session title, summary, and objectives, and the list of authors and papers to be included in the session. Papers must be submitted electronically in final form by the due date, stating on the front page the special session title. Special/invited session papers will follow the standard peer review process.

**WORKSHOP AND TUTORIAL PROPOSALS**

A Workshop/Tutorial proposal should focus on a specific theme related to the main conference topics, describing objectives and expected outcomes. The *tutorial proposal* should contain the tutorial summary and outline and the presenter's short bio and contact information. The *workshop proposal* should include the workshop chair(s) short bio and contact information, and the list of speakers. Proposals should be submitted by e-mail to the Tutorials and Workshops Chair by the due date. Workshop/Tutorial proposals will be reviewed and evaluated by the technical program committee members.

<http://www.msc2012.org>

## Skupovi u organizaciji IFAC-a

| Naziv skupa   | Vrijeme              | Mjesto                       | Daljnje informacije            |
|---|----------------------|------------------------------|--------------------------------|
| IFAC Conference – On Methods And Models in Automation And Robotics - MMAR (cosponsorship)                     | August 27 - 30, 2012 | Miedzyzdroje, Poland         | www.icinco.org                 |
| IFAC Symposium 8'th SAFEPROCESS'12: Fault detection, supervision and safety for technical processes           | August 29 - 31, 2012 | Mexico City, Mexico          | www.iingen.unam.mx/SAFEPROCESS |
| IFAC Symposium – Biological and Medical Systems - BMS 2012  | August 29 - 31, 2012 | Budapest, Hungary            | bms.iit.bme.hu                 |
| IFAC IEEE Workshop Lagrangian and Hamiltonian Methods for Nonlinear Control - LHMNLC'12                       | August 29 - 31, 2012 | Bertinoro (Bologna), Italy   | www.lhmnlc12.deis.unibo.it     |
| IFAC Symposium Power Plants and Power Systems Control   | Sept. 2 - 5, 2012    | Toulouse, France             | www.pppsc2012.org              |
| 10th IFAC Symposium on Robot Control - SYROCO 2012  | Sept. 5 - 9, 2012    | Dubrovnik, Croatia           | www.syroco2012.org             |
| IFAC KSAE Symposium Advanced Vehicle Control - AVEC 12  | Sept. 9 - 12, 2012   | Seoul, Republic of Korea     | avec12.ksae.org                |
| IFAC SICE Workshop Automation in the Mining, Mineral and Metal Industries                                     | Sept. 10 - 12, 2012  | Gifu, Japan                  | www.ifacmmm2012.org            |
| IFAC Symposium Control in Transportation Systems 13th   | Sept. 12 - 14, 2012  | Sofia, Bulgaria              | s27.iccs.bas.bg                |
| IFAC Workshop Control Applications of Optimization - CAO'12   | Sept. 13 - 16, 2012  | Rimini, Italy                | cao2012.imm.uran.ru            |
| IFAC IEEE Control System Society Workshop Workshop on Distributed Estimation and Control of Networked Systems | Sept. 14 - 15, 2012  | Santa Barbara, USA           | necsys2012.engr.ucsb.edu       |
| IFAC Conference Manoeuvring and Control of Marine Craft (MCMC'2012)   | Sept. 19 - 21, 2012  | Arenzano, Italy              | www.mcmc2012.issia.cnr.it      |
| IFAC Workshop Discrete-Event System Design  | October 1 - 4, 2012  | Campos do Jordao, Brazil     | www.desdes.uz.zgora.pl         |
| IFAC IEEE Workshop Discrete Event Systems - WODES 2012  | October 1 - 3, 2012  | Guadalajara, Jalisco, Mexico | www.gdl.cinvestav.mx/wodes-12  |
| IFAC FIMA Workshop Multi Vehicle Systems - 2nd  | October 3 - 5, 2012  | Espoo, Finland               | mvs2012.aalto.fi               |

Za više informacija posjetite <http://www.ifac-control.org/events/forthcoming>.