

IACSS - Newsletter

Volume 12, Issue 2

August 2012

INSIDE IACSS

PREAMBLE

Pre-Olympic Congress of Computer Science in Sports,
July 24-25, 2012, Liverpool, United Kingdom.

INTERESTED PERSONS/COLLEAGUES

At present 583 colleagues from over 50 countries are interested in IACSS – they either are subscribed to receive this Newsletter or to the E-Group.

Imprint

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Pre-Olympic Congress on Computer Science in Sports, July 24-25, 2012, Liverpool, United Kingdom

The 2012 Pre-Olympic Congress on Computer Science in Sport was held from 24th-25th July at the ACC (Arena and Convention Centre) in Liverpool, UK. It was organized by the International Association of Computer Science in Sport and locally arranged by Prof. Yong JIANG (University of Liverpool and Nanjing University of Science and Technology). The convention provided an excellent environment for the participants to meet academic fellows and to communicate and exchange with experts in computer science in sport.



About 200 delegates from all over the world participated at the congress. 103 submissions were accepted either for oral or poster presentation. All contributions are published in the Proceedings of 2012 Pre-Olympic Congress on Sports Science in Sport edited by Prof. Yong JIANG and Prof. Arnold BACA (World Academic Press).

Program

After the main congress organizer, Prof. Yong JIANG, welcomed all participants the president of the International Association of Computer Science in Sport, Prof. Arnold Baca, held his welcome speech and opened the congress.

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Keynote Sessions

The opening ceremony was followed by 3 keynote presentations chaired by **Dr. Didier Seyfried** (France) and **Prof. Green Waggener** (USA):



Prof. Martin Lames (Technical University of Munich, Germany) talked about *Levels of interdisciplinarity between sport science and computer science*. He outlined points of contact between

sport science and computer and focussed on the topic of contributions of computer science to sport science.



Prof. Arnold Baca (University of Vienna, Austria) presented *The Development and implementation of a blended learning concept for sports-oriented high school students*.

The talk gave interesting insights into an academic project in in cooperation with high schools and highlighted the additional values of multimedia for teaching and learning.



Prof. Anthony Bedford (School of Mathematic and Geospatial Sciences, Melbourne, Australia) gave a presentation on the topic *The Value of Statistical Simulation in Sport for Players, Coaches and the*

Media. The speech was about statistical methods and their strengths and limits of forecasting the outcome of sports events.

Besides the keynotes, over 50 oral presentations were given during the 2 days event in 2 parallel sessions.

More information on the conference including a detailed programme with all oral presentations can be found at

<http://www.olympiccongress.org/PreLondon2012>



IACSS - Membership

The membership is open to individuals, groups, and national and international organizations interested in computer science in sport. Membership in the Association consists of the following classes: member, fellow, student member, special member and affiliate member. Membership generally requires the submission of an application accompanied by the appropriate fee as prescribed at the time of the application.

The membership fee includes the annual subscription to the E-Journal 'International Journal of Computer Science in Sport' (IJCSS). The membership year is the calendar year. The Membership Application Form can be found on <http://www.iacss.org> under IACSS-Registration.

IJCSS - E-Journal

Volume 11, 2012, Edition 2 is online since June, 2012.

This issue contains the following research papers and reports:

Research Papers

Nicole Bandow, Kerstin Witte & Steffen Masik: Development and Evaluation of a Virtual Test Environment for Performing Reaction Tasks

Tade Souaiaia & Jonas Mureika: A Mathematical Model of the Environmental Effects on Long Jump Performance of World Class Athletes

Scientific Reports

Peter O'Donoghue: The Assumptions Strike Back! A Comparison of Prediction Models for the 2011 Rugby World Cup

Chueh-Wei Chang, Yi-Po Wu & Hua-Wei Lin: An Animation Assisted Training System for the Baseball Cover, Relay and Cutoff Play

Project Reports

Jürgen Perl & Stefan Endler: PerPot Individual Anaerobe Threshold Marathon Scheduling

This issue can be found at

<http://iacss.org/index.php?id=48>.

Invitation to submit papers

The International Journal of Computer Science in Sport (IJCSS) is a referred electronic journal. Research results with an emphasis on the following topics regarding the application of Computer Science and Mathematics in supporting the development of theory and practice in sport are considered:

- Modelling (mathematical, informatics, biomechanical, physiological)
- Computer aided applications
- Data acquisition and processing
- Databases
- Simulation (interactive, animation, ...)
- Development of theories
- Multimedia / Internet
- Presentation
- Education

The journal does not only serve as a forum for current research from around the world in the field of computer technology in sport. Moreover, there is place to present theories, methods and concepts, which are developed in Computer Science and Mathematics, and applied to Sport Science. IJCSS will also publish editorials, project reports, extended essays, conference reports, forum discussions with experts and between subscribers and company information.

IJCSS – E-Journal - Prices

Prices 2012:

- Standard: 40 Euro
- Students: 20 Euro
- Institutional subscriptions: 120 Euro

More information:

<http://www.iacss.org/index.php?id=30>

Upcoming Conferences and Events

International Workshop on Health, Physical Education and Computer Science in Sport 2012, August, 11-12, 2012, Hyderabad, India

The Indian Federation of Computer Science in Sport under the auspices of IACSS and in association with the Department of Physical Education, Osmania University, Hyderabad is conducting the International Workshop on Health, Physical Education and Computer Science in Sport 2012 on 11th and 12th of August 2012.

The mission of the event is to develop scientific knowledge concerning health among people as well as to discuss current developments in physical education and computer science.

Renowned speakers will deliver lectures on the following subjects: Health Science, Sports Medicine, Yoga, Physical Education, Computer Science in Sport, Exercise Science, Sports Training Science, Sports Physiology, Sports Nutrition, Sports Injuries.

Workshop web site: <http://www.ifcss.in>

9th Conference of the dvs-section Computer Science in Sport, September, 12-14, 2012, Constance, Germany

After the successful organization of the 8th conference of the dvs-section Computer Science in Sport in 2010, the next symposium will be organized at the University of Constance, Germany.

Researchers are invited to participate in this event with the following emphasis areas:

- Data collection
- Data analysis
- Modeling and simulation
- Databases and data mining in sports
- Visualization, presentation and e-learning

- Communication and mobile systems
- Sports equipment

Special topics of the conference include:

- Real time feedback for movement learning and rehabilitation
- Digital and serious games in sports
- Image and video processing

The entire program of the conference including the accepted contributions can be found at:

<http://cms.uni-konstanz.de/informatik/saupe/sportinformatik-2012>

9th International Symposium on Computer Science in Sport (IACSS 2013), June, 19-22, 2013, Istanbul, Turkey

The International Association of Computer Science in Sport (IACSS) and Turkish Association of Computer Science in Sports (TACSS), takes great pleasure in organizing the 9th International Symposium on Computer Science in Sport (IACSS 2013). The conference will be held between June 19 - 22, 2013 at the historical congress venue of Istanbul, Harbiye Military Museum and Culture Center in the attractive country of Turkey.

The symposium is conceived as a forum for mutual exchange between researchers, coaches, physical education teachers, graduates, fitness instructors, engineers, mathematicians and other sports-related and technical experts, dealing with interdisciplinary topics on sports and computer science. The conference objectives are to present, discuss and update current research results, findings, inventions and ideas in the domain of computer science in sport. In addition, IACSS 2013 aims at the sharing of knowledge between multinational participants, thereby improving the international cooperation and collaborative research (to the point of joint projects) in this interesting field of application.

New web address: <http://www.iacss2013.org>

Dagstuhl seminar "Computer Science in High Performance Sport - Applications and Implications for Professional Coaching", 30.06-03.07, 2013, Schloss Dagstuhl, Germany

The seminar has been accepted for the following dates: June 30 - July 03, 2013. This event will focus on how performance data can be processed and analyzed, how analysis results can be communicated and visualized using advances in computer science in ways that enable and amplify coach expertise. The following three sub-themes will be addressed in this seminar:

- Computer aided applications (complete hardware and software applications aimed to help coaches)
- Data acquisition, processing, analysis, and visualization
- Modelling and simulation (interactivity, animations and presentations)

Web site:

<http://www.dagstuhl.de/en/program/calendar/semhp/?semnr=13272>