Kia ora – please find here your Friday digest. Ngā mihi o te rā! Val

DoIs have now been registered for the 2013 and 2015 MODSIMs – see the links below.
https://www.mssanz.org.au/modsim2015/documents/CrossRef_DOI_papers2015.pdf
https://www.mssanz.org.au/modsim2013/documents/CrossRef_DOI_papers2013.pdf

- Attached is a flier for a postdoc position for two years in Stein (Switzerland) to work on soil health at the Soil Competence Centre. See attached flyer and here for information.
- Andrea Castelletti is seeking a postdoctoral research fellow in water resources systems analysis, modeling and control. See more information below. The application deadline is fairly close – **2 February**
- ZALF has advertised a Tenure Track Call for an Agro-Ecosystem Modeller. See details attached. The application deadline is **12 February**
- UNSW are seeking a PhD student "Assessing Water Supply Security in a Nonstationary Environment". The full advertisement is at http://www.hydrology.unsw.edu.au/phd-scholarships. Closes on **20 February**.
- The University of Delaware is seeking Graduate Research Assistant and Postdocs in the area of water quality and modelling (no closing date supplied) – see more information below
- Please find attached the 2nd call for abstracts & papers for iEMSs2020! The deadline for submitting abstracts (February 1, 2020) is approaching fast! So far, we have received 25 abstracts, spread over 17 out of the 45 sessions. Optional full papers can be submitted based on an accepted abstract (deadline for draft papers: **April 1, 2020**)
- Ph.D. Assistantship at Virginia Tech Coupling Forest Hydrology and Nutrient Cycling to work on a project related to nitrogen cycling and hydrology in forested catchments beginning fall 2020. The student will join a large collaborative team with opportunities for work in New Zealand and at the USDA Forest Service Coweeta Hydrologic Lab. Preference given to students with a M.S. in forest soils and hydrology or related fields. To be considered for the position, or for more information, please contact Brian Strahm (brian.strahm@vt.edu) and Kevin McGuire (kevin.mcguire@vt.edu).
- ICT4S 2020 Call for Workshops Proposal - these would be in Brussels on 22 and 26 June (which might mesh in with a trip to iEMSs). The workshops at ICT4S 2020 look to facilitate the exchange of new ideas and directions in all areas related to sustainability and digital technology. A variety of formats are welcome and will be considered, ranging from traditional research paper presentations to interactive and participatory sessions. Given the urgency of the climate crisis we invite proposals that cover controversial viewpoints, national and global public policy interventions, emerging technology drivers or transformative ideas aimed at changing basic assumptions. See attached for more information – the deadline for the proposal is **29 January.**

The **Environmental Intelligence Lab**, Dept. of Electronics, Information and Bioengineering, at **Politecnico di Milano** invites applications for **one postdoctoral position** in the broad field of **water resources systems analysis, modeling and control** for a period of 2 years.

The position is part of the project "ADDApt: designing adaptation measures to contrast climate extremes in subalpine river basins". ADDApt is an interdisciplinary project advancing the state of the art of robust climate adaptation design in multi-sector water engineering systems. The focus of ADDApt is on:

1. Many-objective tradeoff analysis of the water-energy-food nexus;
2. Robust and flexible design of adaptation measures;
3. Machine learning for detection/prediction of climate extremes.

Qualifications for this position include a Ph.D. in water resources engineering, hydrology, or a related field of environmental engineering. Alternatively, candidates having a background in machine learning, applied mathematics and automation and control are also encouraged to apply. The successful candidate is experienced with water resources system operation design, multiobjective optimization, real time control of water resources systems. Strong numerical and computational skills are required as well as English language skills both in oral and written communication.

The application package must include CV, list of publications, and the name of two references. For informal enquiries please contact Professor Andrea Castelletti andrea.castelletti@polimi.it

Deadline for the package submission: 2nd February 2020

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Graduate Research Assistant and Postdoc Positions Available at the University of Delaware

Graduate Research Assistant (GRA) and/or Postdoc positions are available on research related to legacy sediment and nutrient interactions in stream ecosystems.

Two GRA positions (MS or PhD) are available to measure and model biological nitrogen removal (e.g., via denitrification) in legacy sediment plumes in streams. Applicants should have a strong background in biogeochemistry and water quality processes. One of the positions will require knowledge and experience with water quality models (e.g., the Soil Water Assessment Tool, SWAT).

One GRA (PhD preferred) or Postdoc position is available to investigate nutrient processing and microbial response for precolonial or pre-legacy soils following restoration. Applicants should have a strong background in soil science, biogeochemistry, and/or microbial ecology.

Contact Shreeram Inamdar (inamdar@udel.edu) for additional details. All applicants should submit detailed CVs with research experience and a statement of interest. GRA applicants should also provide unofficial transcripts and GRE scores.

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ICT4S 2020 Call for Workshops Proposal

We invite workshop proposals of traditional or unconventional formats for

half-day or full-day workshops. Workshops are to be held on Monday, June 22,

and Friday, June 26, 2020.

The workshops at ICT4S 2020 look to facilitate the exchange of new ideas and directions in all areas related to sustainability and digital technology. A variety of formats are welcome and will be considered, ranging from traditional research paper presentations to interactive and participatory sessions. Given the urgency of the climate crisis we invite proposals that cover controversial viewpoints, national and global public policy interventions, emerging technology drivers or transformative ideas aimed at changing basic assumptions.

At ICT4S 2020 we are facilitating two kinds of workshop:
+ Formal Workshops - workshops looking to establish annual gatherings and publish proceedings associated to topics covered by ICT4S. These workshops will include a full peer review process for workshop submissions (facilitated by the workshop organisers). Position papers submitted to the workshop will be published in adjunct proceedings of the ICT4S proceedings.
+ Community Workshops - workshops for community building and passionate discussion in emerging topics relating to ICT4S.

Details of what should be addressed in the proposal are as follows:

Formal Workshops
Formal workshop proposals should be between 4-6 pages long and include:

+ Title
+ Background - rationale for the workshop, including the aims and objectives
+ Organisers - short backgrounds/bios, including experience in organising workshops or similar events
+ Pre-workshop plans - details on recruitment for the workshop, e.g. the target audience communities, strategy for communication with these communities,

+ Workshop Structure/Activities - the workshop structure in detail,

including activities and resources required. Please state whether this is a

half or full day workshop here.

+ Post-workshop plans - plans for the creation of tangible outcomes or

outputs, and follow-up with attendees/ICT4S

+ Website URL/details - We encourage all Formal Workshops to create a

workshop website to

+ Programme committee (PC) details - This should include the names, contact

details and affiliations of the PC.

+ Submission criteria for authors - criteria by which submissions to the

workshop will be evaluated

+ Call for Participation (CfP) - a 250 word CfP that will be posted on the

ICT4S website

+ References

Community Workshop

Community workshop proposals should be between 2-4 pages long and include.

+ Title

+ Background - rationale for the workshop, including the aims and objectives

+ Organisers - short backgrounds/bios, including experience in organising

workshops or similar events

+ Pre-workshop plans - details on recruitment for the workshop, e.g. the

target audience communities, strategy for + communication with these

communities,

+ Workshop Structure/Activities - the workshop structure in detail,

including activities and resources required. Please state whether this is a

half or full day workshop here.

+ Call for Participation (CfP) - a 250 word CfP that will be posted on the

ICT4S website

+ References

Submission Guidelines

All submissions should follow the ACM template. Word and Latex templates are

available.

Submissions to formal workshops should follow these templates for their

inclusion in the ICT4S2020 programme.

More details:

https://eur02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.acm.org%2Fpublications
%2Fproceedings-
template&data=02%7C01%7Co.bates%40lancaster.ac.uk%7C58d520be193d4144fb6c08d785a
1de43%7C9c9bcd11977a4e9ca9a0bc734090164a%7C1%7C1%7C637124802584511291&sdat
a=oSjuWPTW2CEgxq%2FOzQO5TF8v9PvHvw9zetyqC%2FzX4ho%3D&reserved=0

* Potential Topics of Interest

Conference topics include (but are not limited to) the following:

. Transport and logistics

. Software Engineering

. Behavioural and societal change

. Energy-efficient and energy-aware software engineering

. Resilient infrastructures and smart grids

. Hardware obsolescence, E-waste and material life cycles

. Decision support and policy making

. Education

. Smart cities, buildings, homes and offices

. Data centres and high-performance computing

. Social movements, grassroots communities and organisations

* Further details:

+ All workshops will be provided with resources (pens, paper, flip charts, markers), WIFI, projector/screen, a room at the University of Bristol, and catering (tea/coffee break, lunch).

+ Workshop organisers will be expected to organise evening meals with their attendees.

+ Workshop organisers are expected to set up and manage their own submission and review processes.

+ Formal workshop organisers are expected to engage with the papers chairs when preparing the camera ready submissions.

* Deadlines *

Formal Workshops: Jan 29, 2020

Decision Notification: Feb 5, 2020

Camera Ready Deadline for workshop submissions: May 1, 2020

Community Workshops: April 20, 2020

Decision Notification: May 1, 2020

Workshop chair contact and submissions: o.bates@lancaster.ac.uk

c.venters@hud.ac.uk

Workshop chairs:

Oliver Bates, Lancaster University, UK

Colin C. Venters, University of Huddersfield, UK

ICT4S 7th International Conference for ICT for Sustainability (ICT4S) 2020

June 21-27, 2020

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Istituto Dalle Molle di studi sull'intelligenza artificiale USI - SUPSI

Dr Andrea Emilio Rizzoli
Professore

Galleria 2
CH-6928 Manno

T +41 (0)58 666 66 64
F +41 (0)58 666 66 61
andrea@idsia.ch
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2nd CALL FOR ABSTRACTS & PAPERS!

Please consider submitting your environmental modeling and software work for presentation at the:

10th International Congress on Environmental Modelling & Software

(iEMSs 2020)

6 - 10 July 2020 – Brussels, BELGIUM

iEMSs 2020 is the official biennial conference of the International Environmental Modelling & Software Society, sponsors of the high impact journal, Environmental Modelling & Software, and the new open access, community-driven journal, Socio-Environmental Systems Modelling.

The theme for the conference is "Modelling for Environmental Sustainability" and we hope to see a lot of exciting new developments to support a sustainable future.

Please consult the iEMSs 2020 website for details about the sessions and other information about the conference.

https://iemss2020.com/

Abstracts & papers are submitted to sessions only.
Workshop presentations are organized by each workshop organizer individually.
Abstract Submission Deadline: February 1, 2020
Optional Full papers after acceptance of abstracts

Please, follow @iemss2020 on Twitter for updates as we progress towards convening next July.
Looking forward to welcoming everyone to Brussels!!

Ann van Griensven & Jiri Nossent
Conference Chairs

The Leibniz Centre for Agricultural Landscape Research (ZALF) is pleased to announce

Tenure Track Position for an
Agro-Ecosystem Modeller (m/f/d)
[Reference N° T02-2020]

ZALF is a member of the Leibniz Association and, with its 350 employees, one of the largest research institutions in the Berlin-Brandenburg region. Its mission as a nationally and internationally active research institute is to deliver solutions for an economically, environmentally and socially sustainable agriculture – together with society. As a contribution to overcoming global challenges such as climate change, food security, biodiversity conservation and resource scarcity, we develop and design crop systems that combine food security with sustainability. For its integrated systems research, ZALF processes complex landscape data with a unique set of experimental methods, new technologies and models as well as socio-economic approaches.

With its Tenure Track System, ZALF aims to recruit excellent scientists with essential expertise by providing a guaranteed transitioning to a permanent contract subject to successful evaluation.

Call description

This Classic Tenure Track Call invites candidates who have a focus on the development, use and investigation of process-based agro-ecosystem simulation models at the interface of crop and soil processes. As part of the "Ecosystem Modelling" working group, the successful candidate is expected to develop next-generation modelling approaches to capture the full range of genotype x environment x management interactions in the soil-cropping system-atmosphere continuum with a focus on multi-species cropping systems. This includes above- and belowground species interactions and their effect on water, soil organic matter and nutrient dynamics, as well as feedbacks to relevant crop growth and yield processes. In the context of climate change adaptation and mitigation, food security and Agriculture 4.0, the candidate's research will contribute to impact assessments of environmental or societal change on nitrogen and carbon emissions from, carbon sequestration in or yield performance of cropping systems, focussing in particular on the trade-offs between different sustainability goals and ecosystem services. In addition, the candidate will contribute to related agro-ecosystem modelling topics such as pest and disease impacts on crops or transition zone effects.

The call is addressed to dynamic and highly motivated researchers with a PhD and postdoc research experience in agronomy, vegetation ecology, etc., comprehensive mathematical expertise, as well as profound knowledge in modelling biophysical processes in agro-ecosystems, preferably with respect to crop physiology and/or the turnover of soil organic matter. Candidates must have demonstrated their capacity to independently carry out research, including an excellent publication record, successfully acquired competitive third-party funding, visibility in their respective field of research, and experience in project management and coordination. Previous experience at the interface of modelling and field-scale experimentation is desirable.

The successful candidate will receive a Regular Tenure Track position (2 x 2-3 years) with progress to the subsequent phase subject to successful evaluation. If candidates are not legally eligible for two consecutive fixed-term contracts, they may enter the Fast Tenure Track if the required scientific achievements are fulfilled.

Tenure contracts are generally offered as full-time contracts, with part-time option to allow for the reconciliation of family and career. Salary will follow the guidelines for public employees according to the German TV-L, depending on the personal situation up to the level of E14. The working place is in Müncheberg near Berlin, Germany. The successful candidate will be offered individual options for career support such as a mentoring tandem, courses and trainings as well as variable options to access scientific resources.

ZALF is an equal opportunities employer (audit berufundfamilie® certificate) and specifically encourages female scientists to apply. Applications of disabled applicants with equal qualifications will be favoured.

Application and candidate selection

Application documents must follow the specifications given in the respective guideline available at the ZALF website (www.zalf.de/en/karriere/tenure-track) and include two standardized letters of recommendation of scientists who are familiar with your research accomplishments and academic credentials (template available at www.zalf.de/de/karriere/tenure-track/Documents/20181218_ZALF_TenureTrack_App4_Reference_Letter.docx).

Candidate selection is based on scientific achievements, strategic aspects, and personal suitability. Details on criteria, minimum requirements and evaluation processes can be obtained from the ZALF Tenure Track System guideline, which is an official annex to this call: www.zalf.de/de/karriere/tenure-track/Documents/20181218_ZALF-Tenure_Track_System_Guideline.pdf

Please send your application as a single PDF file to tenuretrack@zalf.de, stating the reference number **T02-2020**.

The deadline for applications is **12 February 2020**.

If you have any questions, please contact: Dr. Ulrike Hagemann (Phone +49(0)33432/82-449; ulrike.hagemann@zalf.de)

For cost reasons, your application documents or extensive publications can only be returned if an adequately stamped envelope is attached.

If you apply, we collect and process your personal data in accordance with Articles 5 and 6 of the EU GDPR only for the processing of your application and for purposes that result from possible future employment with the ZALF. Your data will be deleted after six months. You can find further information at: www.zalf.de/en/ueber_uns/Pages/Datenschutzerklaerung.aspx