Call for Papers: Bx 2020

9th International Workshop on Bidirectional Transformations

June 22, 2020

As part of the STAF conference, Western Norway University of Applied Sciences, Bergen, Norway

Bidirectional transformations (bx) are a mechanism for maintaining the consistency of at least two related sources of information. Such sources can be relational databases, software models and code, or any other document following standard or ad-hoc formats. Bx are an emerging topic in a wide range of research areas, with prominent presence at top conferences in several different fields (namely databases, programming languages, software engineering, and graph transformation), but with results in one field often getting limited exposure in the others. Bx 2020 is a dedicated venue for bx in all relevant fields, and is part of a workshop series that was created in order to promote cross-disciplinary research and awareness in the area. As such, since its beginning in 2012, the workshop has rotated between venues in different fields.

Aim & Topics

The aim of the workshop is to bring together researchers and practitioners, established and new, interested in bx from different perspectives, including but not limited to:

- bidirectional programming languages and frameworks
- data and model synchronization
- view updating
- inter-model consistency analysis and repair
- data/schema (or model/metamodel) co-evolution
- coupled software/model transformations
- inversion of transformations and data exchange mappings
- domain-specific languages for bx
- analysis and classification of requirements for bx
- bridging the gap between formal concepts and application scenarios
- analysis of efficiency of transformation algorithms and benchmarks
- survey and comparison of bx technologies
- case studies and tool support
Categories of Submissions

Five categories of submissions are considered:

- **Full Research Papers** (up to 15 pages)
  - in-depth presentations of novel concepts and results
  - applications of bx to new domains
  - survey papers providing novel comparisons between existing bx technologies and approaches, case studies
- **Tool Papers** (up to 8 pages)
  - guideline papers presenting best practices for employing a specific bx approach (with a specific tool)
  - presentation of new tools or substantial improvements to existing ones
  - qualitative and/or quantitative comparisons of applying different bx approaches and tools
- **Experience Report** (up to 8 pages)
  - sharing experiences and lessons learned with bx tools/frameworks/languages
  - how bx is used in (research/industrial/educational) projects
- **Extended Abstracts and Short Papers** (up to 5 pages)
  - work in progress
  - small focused contributions
  - position papers and research perspectives
  - critical questions and challenges for bx
- **Talk Proposals** (up to 2 pages)
  - proposed lectures about topics of interest for bx
  - existing work representing relevant contributions for bx
  - promising contributions that are not mature enough to be proposed as papers of the other categories

*If your submission is not a Full Research Paper, please include the intended submission category in the Title field of EasyChair’s submission form.*

The bibliography is excluded from the page limits. All papers are expected to be self-contained and well-written. Tool papers are not expected to present novel scientific results, but to document artifacts of interest and share bx experience/best practices with the community. Experience papers are expected to report on lessons learnt from applying bx approaches, languages, tools, and theories to practical application case studies. Extended abstracts should primarily provoke interesting discussion at the workshop and will not be held to the same standard of maturity as regular papers; short papers contain focused results, positions or perspectives that can be presented in full in just a few pages, and that correspondingly contain fewer results and that therefore might not be competitive in the full paper category. Talk
proposals are expected to present work that is of particular interest to the community and worth a talk slot at the workshop.

We strongly encourage authors to ensure that any (variants of) examples are present in the bx example repository at the time of submission, and, for tool papers, to allow for reproducibility with minimal effort, either via a virtual machine (e.g., via Share) or a dedicated website with relevant artifacts and tool access.

All submissions will be peer-reviewed by at least three members of the program committee. If a submission is accepted, at least one author is expected to participate in the workshop to present it. Authors of accepted tool paper submissions are also expected to be available to demonstrate their tool at the event.

Proceedings

The workshop proceedings (in a STAF 2020 joint volume for workshops), including all accepted papers (except talk proposals), shall be submitted after the conference to CEUR-WS.org for online publication. Pre-prints of all papers will be available via the workshop website at the beginning of the conference.

Papers must follow the LNCS style available at:

http://www.springer.com/lncs

and must be submitted via EasyChair:

https://easychair.org/conferences/?conf=bx2020

Please also ensure that your submission is legible when printed on a black and white printer. In particular, please check that colors remain distinct and font sizes are legible. Submissions not complying with the above guidelines may be excluded from the reviewing process without further notice.

Important Dates

- Abstract submission: April 27, 2020
- Paper submission: May 4, 2020 (strict)
- Author notification: May 25, 2020
- Pre-workshop camera ready: June 8, 2020
- Workshop: June 22, 2020

Please note that a specific workshop room will be available also on June 23 to informally continue discussions started during the official workshop program on June 22.
Organization

The workshop is co-organized by Meng Wang (University of Bristol, UK) and Leen Lambers (Hasso Plattner Institute at the University of Potsdam, Germany). In case of questions, please contact the PC chairs at bx2020@easychair.org. Please find further information w.r.t. the Bx 2020 workshop at:

http://bx-community.wikidot.com/bx2020:home

and STAF 2020 conference at:

https://staf2020.hvl.no/

Program Committee

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