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EnviRE'22 - 2nd IEEE International Workshop on Environment-Driven Requirements
Engineering, August 15 or 16, 2022 - fully virtual (Melbourne, Australia) in conjunction
with [RE 2022](#). Visit the official
website: <https://homepages.uc.edu/~niunn/EnviRE/EnviRE2022.html#sbm>
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Modeling the environment will be more and more important in RE when the systems will situate in the open world and with the human in the loop. For example, IoT-enabled systems, cyber-physical systems, AI-based systems, etc. are expected to be able to perceive the changes of an open and dynamic environment, respond to changes through architectural transformations, and exhibit context-aware, adaptive, and trustworthy behaviors. Specifically for the AI-based systems, the components built by machine learning in fact are black boxes. It is not possible to structuring their functions by examining their architectures. Their functions can only be represented by the effects imposed on their operational and interacting environment. These effects can in turn define the tasks of model training, validation, testing, deployment, and operation. When mapping the requirements into the environment properties or assertions, the benefits include natural decomposition and structuring of the problem. The "Environment-Driven Requirements Engineering" workshop thus solicits position and short papers (up to **4 pages** each; if more space is needed, please request by emailing the organizers) to provoke the discussions about:

- How to automatically identify environment assumptions, assertions, and properties?
- What representations are amenable to environment modeling for engineering AI-based systems?
- How can environment phenomena influence system validation and evolution?
- How to handle the uncertainty and incompleteness of environment phenomena and assertions?
- What role do problem analysis and structuring techniques, such as Problem Frames and i^* , play in engineering smart and connected systems?

All details on the main theme of interests, workshops topics, and key questions can be found at: <https://homepages.uc.edu/~niunn/EnviRE/EnviRE2022.html#sbm>. Papers must be submitted on <https://easychair.org/conferences/?conf=envire2022>

Important Dates (All deadlines are 23:59 AoE (Standard Time)):

- * May 19, 2022: Paper submission
- * June 17, 2022: Notification
- * July 07, 2022: Camera-ready submission

We are looking forward to your submissions and an exciting workshop!

Workshop Co-Organizer

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