Ankita Raturi

Assistant Professor, Agricultural & Biological Engineering

PhD 2017, University of California, Irvine

MS 2012, University of California, Irvine

BS 2009, University of the South Pacific

Teaches Introduction to Agricultural Informatics (ASM 591), Research & Practice in Agricultural Informatics (ASM 591). Assisting w/ ABE Ambassador Class.

Selected Recent Papers

Raturi, A., Thompson, J. J., Ackroyd, V., Chase, C. A., Davis, B. W., Myers, R., Poncet, A., Ramos-Giraldo, P., Reberg-Horton, C., Rejesus, R., Robertson, A., Ruark, M. D., Seehaver-Eagen, S., & Mirsky, S. (2022). Cultivating trust in technology-mediated sustainable agricultural research. *Agronomy Journal*, *114*(5), 2669–2680. https://doi.org/10.1002/agj2.20974

Tomlinson, B., Nardi, B., Stokols, D., Raturi, A., & Torrance, A. (2022). Returning ecological wealth to nonhuman species through design: The case for ecosystemas. *Ecology and Society*, *27*(2). https://doi.org/10.5751/ES-13324-270234

Flachs, A., Raturi, A., Norton, J., Miller, V., & Thomas, H. (2022, March). Building back bigger or degrowing local food? US alternative food networks and post-corona agrarian economies. FocaalBlog, Features: Anticipatory Perspectives on the Post-Corona Crisis Economy.

Raturi, A., & Buckmaster, D. (2019, December). Growing Plants, Raising Animals, and Feeding Communities through Connected Agriculture: An IoT Challenge. *IEEE Internet of Things Magazine*, *2*(4), 38–43.

Norton, J., Raturi, A., Nardi, B., Prost, S., McDonald, S., Pargman, D., Bates, O., Normark, M., Herbig, N., Dombrowski, L., & Tomlinson, B. (2017, October). A grand challenge for HCI: Food + sustainability. *Interactions*, *24*(6), 50–55.

Raturi, A., Norton, J., Tomlinson, B., Blevis, E., & Dombrowski, L. (2017). Designing Sustainable Food Systems. *Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems*, 609–616. https://doi.org/10.1145/3027063.3027075

Penzenstadler, B., Raturi, A., Richardson, D. J., Silberman, M. S., & Tomlinson, B. (2015). Collapse (and other futures) software engineering. *First Monday*. https://doi.org/10.5210/fm.v20i8.6123

Raturi, A., Tomlinson, B., & Richardson, D. (2015). Green Software Engineering Environments. In C. Calero & M. Piattini (Eds.), *Green in Software Engineering* (pp. 31–59). Springer International Publishing. https://doi.org/10.1007/978-3-319-08581-4_2

Penzenstadler, B., Raturi, A., Richardson, D., & Tomlinson, B. (2014). Safety, Security, Now Sustainability: The Nonfunctional Requirement for the 21st Century. *IEEE Software*, *31*(3), 40–47. https://doi.org/10.1109/MS.2014.22

Raturi, A., Penzenstadler, B., Tomlinson, B., & Richardson, D. (2014). Developing a sustainability non-functional requirements framework. *Proceedings of the 3rd International Workshop on Green and Sustainable Software*, 1–8. https://doi.org/10.1145/2593743.2593744

Open-Source Products (software, courseware)

Cover Crop Species Selector Tool. (2021). [JavaScript, Python, SQL]. Northeast Cover Crop Council; Open-Source Code Repository: *https://github.com/precision-sustainable-ag/dst-selector*. Accessible at: *http://covercrop.tools/. MIT Media License.*

Raturi, A., Dvorak, J., Doyle, S., Ahmed, A., *Introduction to Agricultural Informatics*. (2022). [HTML, CSS, Python, SQL]. The Agricultural Informatics Lab, Purdue University. Open-Source Repository: https://github.com/ag-informatics/ag-informatics-course GNU GPL v3 License.