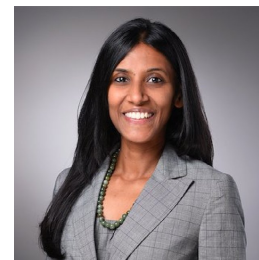


Mrinalini Kochupillai  
Handelsrätt, Helsingfors



## Forskningsoutput

### **Artificial Intelligence (AI) Ethics Recommendations for the Geoscience Community: Task Group on Artificial Intelligence (AI) in Geosciences of the Commission on Geoethics of the International Union of Geological Sciences (IUGS)**

Cleverley, P. H., Kochupillai, M., Lindsay, M. & Ruttkamp-Bloem, E., 26.09.2025, International Union of Geological Sciences. 38 s.

### **Earth "Observation" and the Anthropocene: Rethinking the "Observer Effect" Through the Lens of Yoga Philosophy**

Kochupillai, M., 2025, *Cross-Disciplinary Dialogues with the Earth Sciences*. Bohle, M. & Nauen, C. E. (red.). Cham: Palgrave Macmillan, s. 81-124

### **Artificial Intelligence to Advance Earth Observation: A review of models, recent trends, and pathways forward**

Tuia, D., Schindler, K., Demir, B., Zhu, X. X., Kochupillai, M., Džeroski, S., Van Rijn, J. N., Hoos, H. H., Del Frate, F., Dacu, M., Markl, V., Le Saux, B., Schneider, R. & Camps-Valls, G., 2024, I: *IEEE Geoscience and Remote Sensing Magazine*. s. 2-25

### **Ethics in data-centric AI for geosciences: a double-edged sword**

Kochupillai, M., 2024, *GARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium, Athens, Greece, 2024*. IEEE Computer Society, s. 479-482

### **Conducting Ethically Mindful Earth Observation Research: The Case of Slum Mapping**

Kochupillai, M. & Taubenbock, H., 2023, *IGARSS 2023 - 2023 IEEE International Geoscience and Remote Sensing Symposium*. Institute of Electrical and Electronics Engineers Inc., s. 1937-1940 4 s.

### **Towards Impactful Applications of AI4EO in the Global South**

Tingzon, I., Mirafior, J. M., Xiang Zhu, X. & Kochupillai, M., 2023, *2023 Joint Urban Remote Sensing Event, JURSE 2023*. IEEE Computer Society, s. 1-4

### **Cast into the Stones of International Law: A Critique of the UPOV Standards in the Light of Scientific Insights and Policy Shifts toward Agroecology and Natural Farming**

Kochupillai, M. & Köninger, J., 2022, *Intellectual Property Ordering beyond Borders*. Cambridge University Press, s. 28-63 36 s.

### **Creating a Digital Marketplace for Agrobiodiversity and Plant Genetic Sequence Data: Legal and Ethical Considerations of an AI and Blockchain Based Solution**

Kochupillai, M. & Köninger, J., 2022, *Towards Responsible Plant Data Linkage: Data Challenges for Agricultural Research and Development*. Williamson, H. F. & Leonelli, S. (red.). Springer Science+Business Media, s. 223-253 31 s.

### **Earth Observation and Artificial Intelligence: Understanding emerging ethical issues and opportunities**

Kochupillai, M., Kahl, M., Schmitt, M., Taubenbock, H. & Zhu, X. X., 2022, I: *IEEE Geoscience and Remote Sensing Magazine*. 10, 4, s. 90-124 35 s.

### **Geoinformation Harvesting From Social Media Data: A community remote sensing approach**

Zhu, X. X., Wang, Y., Kochupillai, M., Werner, M., Haberle, M., Hoffmann, E. J., Taubenbock, H., Tuia, D., Levering, A., Jacobs, N., Kruspe, A. & Abdulahhad, K., 2022, I: *IEEE Geoscience and Remote Sensing Magazine*. 10, 4, s. 150-180 31 s.

**Incentivizing research and innovation with agrobiodiversity conserved in situ: Possibilities and limitations of a blockchain-based solution**

Kochupillai, M., Gallersdörfer, U., Köninger, J. & Beck, R., 2021, I: *Journal of Cleaner Production*. 309, s. 127-155 127155.

**Manure management and soil biodiversity: Towards more sustainable food systems in the EU**

Köninger, J., Lugato, E., Panagos, P., Kochupillai, M., Orgiazzi, A. & Briones, M. J. I., 2021, I: *Agricultural Systems*. 194, 103251.

**Outline of a Novel Approach for Identifying Ethical Issues in Early Stages of AI4EO Research**

Kochupillai, M., 2021, *2021 IEEE International Geoscience and Remote Sensing Symposium IGARSS*. Institute of Electrical and Electronics Engineers Inc., s. 1165-1168 4 s. (Geoscience and Remote Sensing Symposium IGARSS).

**Law, Business, and Legitimacy**

Brinkmann, J. & Kochupillai, M., 2020, *Handbook of Business Legitimacy: Responsibility, Ethics and Society*. Springer, s. 489-507 19 s.

**Programming Away Human Rights and Responsibilities? "The Moral Machine Experiment" and the Need for a More "Humane" AV Future**

Kochupillai, M., Lütge, C. & Poszler, F., 2020, I: *NanoEthics*. 14, 3, s. 285-299 15 s.

**Is UPOV 1991 a good fit for developing countries?**

Kochupillai, M., 2019, *The Innovation Society and Intellectual Property*. Edward Elgar, s. 25-58 34 s.

**Addressing Market Failures for Sustainable Innovations in Plant Varieties**

Kochupillai, M., 2016, *Promoting Sustainable Innovations in Plant Varieties: Munich Studies on Innovation and Competition*. Springer, s. 219-229

**An Economic & Philosophical Introduction to 'Sustainable Innovations' in Plant Varieties**

Kochupillai, M., 2016, *Promoting Sustainable Innovations in Plant Varieties: Munich Studies on Innovation and Competition*. Springer

**Promoting sustainable innovations in plant varieties**

Kochupillai, M., 2016, Springer.

**India: "The Parental Lines Case" Union for the Protection of New Varieties of Plants (UPOV)**

Kochupillai, M., 2013, I: *IIC International Review of Intellectual Property and Competition Law*. 44, 3, s. 369-379 11 s.

**The Indian PPV&FR Act, 2001: Historical and implementation perspectives**

Kochupillai, M., 2011, I: *Journal of Intellectual Property Rights*. 16, 2, s. 88-101 14 s.

**The protection and utilization of public funded intellectual property bill, 2008: A critique in the light of India's innovation environment**

Kochupillai, M., 2010, I: *Journal of Intellectual Property Rights*. 15, 1, s. 19-34 16 s.

**TRIPS, patents and parallel imports in India: A proposal for amendment**

Basheer, S. & Kochupillai, M., 2009, I: *Indian Journal of Intellectual Property Law*. 2, s. 63-86

**'Exhausting' patent rights in India: Parallel imports and TRIPS compliance**

Basheer, S. & Kochupillai, M., 2008, I: *Journal of Intellectual Property Rights*. 13, 5, s. 486-487 2 s.

**Arbitration of patent infringement and validity issues worldwide**

Smith, M. A., Cousté, M., Hield, T., Jarvis, R., Kochupillai, M., Leon, B., Rasser, J. C., Sakamoto, M., Shaughnessy, A. & Branch, J., 2006, I: *Harvard Journal of Law and Technology*. 19, 2, s. 299-357

## **Projekt**

### **ReSeed: A Digital Farmers' Market Incentivizing Sustainable Innovations with Indigenous Seeds**

Kochupillai, M. (Ansvarig forskare (PI)), Kareoja, K. (Projektdeltagare), Bank, D. (Projektdeltagare), Kumari, R. (Projektdeltagare) & Andhe, P. (Projektdeltagare)

01.10.2025 → 30.09.2030