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**Name: Dr. Maria Joseph Israel**

**Designation: Assistant Professor**

**Qualifications: PhD**

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### ***Biographical Sketch***

Maria Joseph Israel holds a PhD in Computer Science and Engineering from Santa Clara University, California, USA, where he also taught Computer Science and Engineering, and led research projects on knowledge engineering, data provenance, system storage technology, and AI and Ethics. His current research aims to directly address the impact of computing technology on the world, and particularly data and automation technologies like AI. He has several years of teaching and research experience in higher education and has worked in post-war zone countries offering welfare services including higher education to refugees, returnees, and internally displaced people. His research interests include: knowledge engineering, data provenance, system storage technology, semantic web and blockchain technologies, ontology design and development, human-computer interaction, computing and AI ethics. Currently he is an assistant professor of Computer Science at St. Xavier's University, Kolkata.

### ***Areas of Specialisation and Research***

Machine Learning, knowledge engineering, data provenance, system storage technology, and AI and Ethics.

### ***Teaching Experience***

Santa Clara University, USA

St. Xavier's College, Kolkata

## Administrative Responsibility

## Publications

### Article published in Peer-reviewed journals

1. Israel, M. J., & Amer, A. (2022). Rethinking Data Infrastructure and its Ethical Implications in the Face of Automated Content Generation (Full paper). *AI & Ethics* (Springer Nature), 1-15. DOI : 10.1007/s43681-022-00169-1
2. Israel, M. J., & Amer, A. (2021). Ethical implications of digital infrastructures for pluralistic perspectives. *Ethics and Information Technology*, 23(3), 399-417.
3. Israel, M. J., Graves, M., & Amer, A. (2021). On trusting a cyber librarian: How rethinking underlying data storage infrastructure can mitigate risks of automation. *Endorsed Transactions on Creative Technologies (Extended Paper)*, 8 (29), 1-13, European Alliance for Innovation (EAI), doi: 10.4108/eai.1-12-2021.172359
4. Israel, M. J. (2015). Effectiveness of integrating MOOCs in traditional classrooms for undergraduate students. *The International Review of Research in Open and Distributed Learning*, 16(5).

## Conference Papers

1. Shaghaghi, N. & Israel, M.J.. (2023, July). Ethics of Metadata Ownership. IACAP conference 2023. (Prague, Czech Republic) 3-5 July, 2023.
2. Israel, M.J., Qin, A., Zhang, Y., Xin, J., & Shaghaghi, N. (Nov, 2022). Automated generation of Mandarin education multimedia content from existing English content. In the *15th annual International Conference of Education, Research and Innovation (ICERI2022)*, Seville (Spain), 7-9 November, 2022.
3. Shaghaghi, N., Israel, M. J., Ghosh, S., Mondal, S., & Biswas, A. M. A. (2021, November). *ClassRoute: Bridging the Digital Academic-Content Divide*. In *2021 1st Conference on Online Teaching for Mobile Education (OT4ME 22-25, November 2021)* (pp. 168-173). IEEE. Online.
4. Israel, M.J., & Amer, A. (2021). *MetaScribe: Data provenance in scholarly publications*. In American Council on Science & Education (CSCE 26-29 July 2021) Conference, Las Vegas, Nevada, USA. ISBN # 1-60132-514-2.
5. Israel, M.J., & Amer, A. (2021, July). Rethinking data infrastructure and its ethical implications in the face of automated content generation. CEPE/IACAP Joint conference 2021 (5-9 July 2021), Online.
6. Israel, M. J., Graves, M., & Amer, A. (2020, December). On trusting a cyber librarian: How rethinking underlying data storage infrastructure can mitigate risks of automation. In the *12th EAI International Conference on Intelligent Technologies for Interactive Entertainment (INTETAIN 12-14, December 2020)*, (pp. 25-42). Springer, Cham. Online. **[Best Paper Award]**
7. Israel, M. J., Shaghaghi, N., & Amer, A. (2020, December). ToDI: A Taxonomy of Derived Indices. In *International Conference on Intelligent Technologies for Interactive Entertainment (INTETAIN 12-14, December 2020)*, (pp. 43-61). Springer, Cham. Online.
8. Israel, M. J., & Nath, B. A. (2013). Integration of Massive Open Online Education (MOOC) System with in-Classroom Interaction and Assessment and Accreditation: An extensive report from a pilot study. In *Proceedings of the international conference on e-learning, e-business, enterprise information systems, and e-Government (EEE)* (p. 105). The Steering Committee of The World Congress in Computer Science, Computer Engineering and Applied Computing (WorldComp, 22-25 July, 2013) Las Vegas, Nevada, USA.
9. Israel, M. J., & Nath, A. (2013). Some issues and challenges in e-learning methodologies and e-assessment systems. In *Proceedings of the International Conference on e-Learning, e-Business, Enterprise Information Systems, and e-Government (EEE)* (p. 140). The Steering Committee of The World Congress in Computer Science, Computer Engineering and Applied Computing (WorldComp, 22-25 July, 2013).
10. Israel, M. J., & Nath, A. (2012). Digital Divide: A comprehensive approach to Integrate State and community experiences into ICT Policy Framework from an Indian perspective. In *2012 World Congress on Information and Communication Technologies*, 30 October – 1 November 2012, (pp. 383-388). IEEE. Trivandrum, India

### 11. Symposium

1. Symposium: Presented “Bringing Technology for Teaching and Learning to Africa”, at the symposium titled “Engaged Scholarship for social justice”, with Changying Zheng, on 7 February, 2015 at the University of San Francisco, California, USA.

### Invited Talk

1. [1] “AI and Social Justice” at the international annual meeting of the Social Justice and Ecology Secretariat of the Society of Jesus, Rome, Italy, June 26-30, 2023. (Virtual).

- [2] “Massive Open Online Courses (MOOCs): Its Hype and Hope” at Universidad Iberoamericana Tijuana, Mexico, on 1 June, 2015.

## **RELATED PROFESSIONAL EXPERIENCES**

### **Conference Secretary (2019-2022)**

- IEEE International Conference on Massive Storage Systems and Technology, Santa Clara University, School of Engineering, Santa Clara, CA, USA (In-person, Virtual, Hybrid)

### **Program Committee Member & Local Conference Organizer**

- International Association of Computing and Philosophy (IACAP) 2022 Santa Clara, CA, USA, July 22-24 2022, Santa Clara University, Santa Clara, CA, USA (Hybrid)
- European Alliance for Innovation (EAI) INTETAIN 2021 - 13th EAI International Conference on Intelligent Technologies for Interactive Entertainment, Santa Clara, USA, December 12-14, 2020, Santa Clara University (Virtual)

### **Reviewer**

- IACAP Conference 2023: The International Association of Computing and Philosophy Conference, Prague, Czech Republic, July 3-5, 2023, Charles University, Prague, Czech Republic.
- Artificial Intelligence Review (AIR) - an international science and engineering journal by Springer (2022)
- International Association of Computing and Philosophy (IACAP) 2022 Santa Clara, CA, USA, July 22-24 2022, Santa Clara University, Santa Clara, CA, USA
- CEPE/IACAP Joint Conference 2021: The Philosophy and Ethics of Artificial Intelligence, Hamburg, Germany, July 5-9, 2021, University of Hamburg, Germany (Virtual)
- European Alliance for Innovation (EAI) INTETAIN 2021 - 13th EAI International Conference on Intelligent Technologies for Interactive Entertainment, Santa Clara, USA, December 12-14, 2020, Santa Clara University (Virtual)
- International Review of Research in Open and Distributed Learning (IRRODL), 2015 - present
- African Educational Research Journal (AERJ), 2015 - present