

Sara Sillaurren Landaburu
Project Manager
Advance Interaction AR, VR and Human Factors
Email: sara.sillaurren@tecnalia.com



Research interests

Human Factors, HMI, User Experience and Virtual and Augmented Reality environments. Application in different domains: Smart Cities, Health, Manufacturing.

Employment

Project Manager

Advance Interaction AR, VR and Human Factors

19 Sept 2011 → present

Research outputs

Exploring Human Emotions: A Virtual Reality-Based Experimental Approach Integrating Physiological and Facial Analysis
Bastida, L., Sillaurren, S., Loizaga, E., Tomé, E. & Moya, A., Jun 2024, In: Multimodal Technologies and Interaction. 8, 6, 47.

Modelling and Measuring Trust in Human-Robot Collaboration

Loizaga, E., Bastida, L., Sillaurren, S., Moya, A. & Toledo, N., Mar 2024, In: Applied Sciences (Switzerland). 14, 5, 1919.

Promoting Obesity Prevention and Healthy Habits in Childhood: The OCARIoT Experience

Bastida, L., Cea, G., Moya, A., Gallego, A., Gaeta, E., Sillaurren, S., Barbosa, P., Souto, S., Rodrigues, E., Torrego-Ellacuria, M., Triantafyllidis, A., Alexiadis, A., Votis, K., Tzovaras, D., Rocha, C., Alves, L., Malo, P., Mateus, M., Ferreira, F. & Arredondo, M. T., 2023, In: IEEE Journal of Translational Engineering in Health and Medicine. 11, p. 261-270 10 p.

Initiating the Human-robot Collaboration During the WEEE Management

Arnaiz, S., Cacho, I., Uria, I., Guardie, D., Arieta-araunabeña, M., Stergiou, A., Karamoutsos, S.-D., Antunes, A.-C., Oliveira, E., Sillaurren, S. & Bastida, L., 2020, p. 255. 1 p.

A hybrid human-robot collaborative environment for recycling electrical and electronic equipment

Axenopoulos, A., Papadopoulos, G., Giakoumis, D., Kostavelis, I., Papadimitriou, A. P., Sillaurren, S., Bastida, L., Oguz, O., Wollherr, D., Garnica, E., Vouloutsis, V., Verschure, P., Tzovaras, D. & Daras, P., Aug 2019, *Proceedings - 2019 IEEE SmartWorld, Ubiquitous Intelligence and Computing, Advanced and Trusted Computing, Scalable Computing and Communications, Internet of People and Smart City Innovation, SmartWorld/UIC/ATC/SCALCOM/IOP/SCI 2019*. Institute of Electrical and Electronics Engineers Inc., p. 1754-1759 6 p. 9060304. (Proceedings - 2019 IEEE SmartWorld, Ubiquitous Intelligence and Computing, Advanced and Trusted Computing, Scalable Computing and Communications, Internet of People and Smart City Innovation, SmartWorld/UIC/ATC/SCALCOM/IOP/SCI 2019).

Empowering citizens into co-creators of demand-driven public services

López-De-Ipiña, D., Misikangas, P., Emaldi, M., Aguilera, U., Drajić, D. & Sillaurren, S., 2018, *MCCSIS 2018 - Multi Conference on Computer Science and Information Systems; Proceedings of the International Conferences on Big Data Analytics, Data Mining and Computational Intelligence 2018, Theory and Practice in Modern Computing 2018 and Connected Smart Cities 2018*. Abraham, A. P., Roth, J., Rodrigues, L. & Peng, G. C. (eds.). IADIS, p. 162-173 12 p. (MCCSIS 2018 - Multi Conference on Computer Science and Information Systems; Proceedings of the International Conferences on Big Data Analytics, Data Mining and Computational Intelligence 2018, Theory and Practice in Modern Computing 2018 and Connected Smart Cities 2018).

Designing history learning games for museums. An alternative approach for visitors' engagement

Aguirrezabal, P., Peral, R., Pérez, A. & Sillaurren, S., 9 Apr 2014, *Proceedings of the 2014 Virtual Reality International Conference, VRIC 2014*. Association for Computing Machinery, a6. (ACM International Conference Proceeding Series; vol. 2014-April).

Playhist: Play and learn history. Learning with a historical game vs an interactive film

Perez-Valle, A., Aguirrezabal, P. & Sillaurren, S., 2014, In: *Lecture Notes in Computer Science*. 8740, p. 546-554 9 p.

SIVINARIA 4D+1: An interactive web environment about the history of navigation in Bilbao

Pérez, A., Pujol, L., Sagasti, D., Sillaurren, S. & De Segura, J. D. G., 2011, *Joint VR Conference of euroVR and EGVE, 2011 - Current and Future Perspectives of Virtual Reality, Augmented Reality and Mixed Reality: Industrial and Poster Track*. 269 ed. p. 105-106 2 p.

Using virtual reality for gesture and vocal interface validation in industrial environments

De Segura, J. D. G., Peral, R., Sillaurren, S., Garrote, E. & Sierra, B., 2007, *Proceedings 17th International Conference on Artificial Reality and Telexistence, ICAT 2007*. p. 294-295 2 p. 4414653. (Proceedings 17th International Conference on Artificial Reality and Telexistence, ICAT 2007).

Virtual reality 3D models for urban planning and communication

Peral, R., Sagasti, D. & Sillaurren, S., 2007, *IMSCI 2007 - International Multi-Conference on Society, Cybernetics and Informatics, Proceedings*. International Institute of Informatics and Systemics, IIS, p. 358-361 4 p. (IMSCI 2007 - International Multi-Conference on Society, Cybernetics and Informatics, Proceedings; vol. 2).