Dominique Nshimyimana

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Education

University of Kaiserslautern-Landau (RPTU), Computer Science — Kaiserslautern, Germany — 2023 – present

University of Kaiserslautern (TU Kaiserslautern), Computer Science — Kaiserslautern, Germany

Experience

University of Kaiserslautern-Landau (RPTU), Research Assistant — Kaiserslautern, Germany — 2023 – present — 3 years
Working on HAR using wearable sensors with a focus on self-supervised learning and feature extraction.

Publications

Contrastive Left-Right Wearable Sensors Consistency Matching for HAR
Improving consistency in HAR using wearable sensors for better data representation.
Dominique Nshimyimana
www.taylorfrancis.com/chapters/edit/10.1201/9781032648422-7/contrastive-left-right-wearable-sensors-imus-consistency-matching-har-dominique-nshimyimana-vitor-fortes-rey-paul-lukowicz

PIM: Physics-Informed Multi-task Pre-training for Inertial Sensor-Based Human Activity Recognition
Exploring physics-informed pre-training methods for HAR using inertial sensors.
Dominique Nshimyimana
10.1109/ABC64332.2025.11118365

Skills

Machine Learning

Languages

English
Fluent

German
Fluent

French
Fluent