

DOCTORANTS DIGISPORT

SPORT SCIENCES DATA SCIENCE COMPUTER SCIENCE ELECTRONICS HUMAN AND SOCIAL SCIENCES LIFE SCIENCES



**KOFFI
AMEZOUWUI**

Analysis and clustering of soccer game situations in order to populate virtual environments

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**LOUIS
ARLES**

Understanding and optimising lower limb action in tennis serving: analysis of biomechanical determinants and links with performance and injury risk

SPORT SCIENCES DATA SCIENCE



**OUMAIMA
BADI**

(PHOTOMOVE) Photorealistic human motion and style transfer for improving sports training

SPORT SCIENCES COMPUTER SCIENCE



**KILIAN
BERTHOLON**

(Advanced Quantitative Underwater Tracking and Inertial Capture) : An IMU-based approach

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**CLELIA
BOULATI**

Analysis of spatio-temporal coordination in team sports for behavioural modelling in virtual environments: application to rugby scrums

COMPUTER SCIENCE DATA SCIENCE



**SOUEBOU
BOURO**

Multi-sensors System for in Situ motion Analysis of Kayakers

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**JOS
DEFORGES**

Keep Children Active

DATA SCIENCE SPORT SCIENCES



**KAIES
DEGHAIES**

Optimising tennis performance: biomechanical analysis of the serve and natural preferences

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**ROMAIN
DEMAY**

Origins and consequences of fatigue during prolonged exercise at variable intensity: application to high-performance cycling

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**LEO
DENOUEL**

Exploration of the relationships between muscle activity, soft tissue changes and movement strategies in individuals with persistent low back pain to support their return to sport and physical activity.

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**CORENTIN
DEPONTAILIER**

Low environmental impact system for monitoring the joint angles of a kayaker

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**GUÉNOLÉ
FICHE**

Weakly supervised learning for 3D pose estimation: application to swimming

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**ARTHUR
GUILLOTTEL**

A multidisciplinary approach to talent detection and the transition from high potential to professional footballer

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**NICOLAS
GUILLUCQ
dit BIRADE**

Silicon nanoribbons, piezoresistivity, sensors, biocompatible flexible substrates, data acquisition, micro-electronics.

ELECTRONICS



**EGLANTINE
LE CHEVERT**

Health prevention, energy metabolism, endurance performance, zero inflated skewed data, sparse modeling, soccer

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**GUILLAUME
LE GULUDEC**

Vi2Bi (Visual observations to Biomechanical quantities): building a differentiable visual and biomechanical model to retrieve biomechanical quantities from visual observations

DATA SCIENCE ELECTRONICS



**AHMED
ABDOURAHMANE
MAHAMOUD**

AI-driven character simulation based on Multi-Agents Interaction Imitation Learning

DATA SCIENCE COMPUTER SCIENCE



**TIVIZIO
PAVIC**

Management of endometriosis through adapted physical activities using a digital tool: acceptance of programmes and tools

SPORT SCIENCES HUMAN AND SOCIAL SCIENCES



**NOLWENN
PINCZON DU SEL**

Multifactorial approach to talent identification and development at the French Rugby Federation

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**NOLWENN
POQUERUSSE**

REAGILITY

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**SUZON
PUCHEU**

Quantification of landing impacts on gymnastics apparatus using source localisation and estimation methods

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**LORETTE
QUEGUINER**

Medical and tactical monitoring of athletes through bio-electronic on-body devices

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**NOLWENN
REGNAULT**

Rider's perceptual training for the optimization of rider-horse interaction in jumping

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**VICTOR
RESTRAT**

Optimization of the pole-vaulter interaction coupling 3D rigid multi-body system and a slender deformable structure model driven by motion capture

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**ROSSELLA
RIZZO**

Wearable stretchable interfaces for athletes' performance and health monitoring

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**REMY
ROINSON**

Development of a methodology for assessing risk factors for injuries in running in situ

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**SONY
SAINT-AURET**

Virtual Collaborative Jeu de Paume

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**MATHIS
TIERCERY**

Design of virtual environments for analysing and training specific skills of football goalkeepers

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**SUNNY
WANG**

Functional Data Modelling With Applications to Sports Performance

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**LOLA
MASSON**

Muscular properties of the lower limbs and running economy: what role do they play in running performance?

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**FLORIAN
MATEOS**

Biofidelity of foot-ball interaction in virtual reality for the assessment and optimisation of decision-making in football

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**SIMON
OZAN**

Validation and use of a markerless motion capture system to analyse and optimise the biomechanics of top tennis players' serves in situ.

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**VALENTIN
RAMEL**

Perception-Action Dynamics and Synchronization in Extended Reality Peloton Cycling

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