



Valentin Gies

Assistant Professor



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Skills

Embedded systems



Artificial Intelligence



Robotics



Electronics



Bio-environmental Sciences



(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Interests

Valentin Gies, assistant professor at Toulon University since 2008, is working on the development of new architectures for embedding Artificial Intelligence in ultra-low power systems. Teaching embedded systems, electronics, artificial intelligence and robotics at IUT Toulon and SeaTech, he is also team leader of RCT, the robot team of Toulon University participating in the RoboCup.

Education

- 2002-2005 PhD in electronics : "Asynchronism in artificial retinas"
Paris-Sud XI University, ENSTA Paris-Tech
- 2001-2002 Bachelor and Master in Artificial Intelligence and Advanced Pattern Recognition (DEA IARFA)
Paris VI Panthéon-Sorbonne University
- 2000-2001 Applied physics Agrégation
Ecole Normale Supérieure de Cachan
- 1998-2000 Master in Applied Physics
Ecole Normale Supérieure de Cachan

Publications

- 2020 Low Cost Artificial Ventilator Embedding Unsupervised Learning for Hardware Failure Detection, *IEEE CAS Magazine*
- 2020 A Novel Low-Power High Speed Accurate and Precise DAQ with Embedded AI for Long Term Biodiversity Survey, *Acustica*
- 2020 Optimisation of Energy Transfer in Reluctance Coil Guns: Application to Soccer Ball Launchers, *Applied Sciences*
- 2019 Modeling and Optimization of an Indirect Coil Gun for Launching Non-Magnetic Projectiles, *Sensors and Actuators*
- 2015 WSN based thermal modeling: A new indoor energy efficient solution, *Smart Sensing and Intelligence*
- 2011 Device for acquiring and processing physiological data of an animal or of a human in the course of a physical or mental activity - *US Patent App. 12/990,062.*

Awards

- 2020 Mentor of the winning team of the IEEE CAS Covid Contest : "Low Cost Artificial Ventilator Embedding Unsupervised Learning for Hardware Failure Detection"
IM2NP - Toulon University
- 2015-2019 Mentor of the 4 student teams winning the French Robot Championship.
IUT GEII Toulon
- 2011 Best start-up award at SAME Symposium for its wearable sensor for fitness applications.
Investissement d'Avenir with ESPHI, Toulon University start-up

Experience

- Since 2017 Scientific advisor of the technological platform SMIoT (Scientific Microsystems for the Internet of Thing)
Toulon University
- Since 2017 Representative of UTLN at project commission of Pôle SCS (Solutions Communicantes Sécurisées)
Toulon University
- Since 2008 Assistant Professor at IUT GEII and IM2NP laboratory (since 2017), and PROTEE laboratory (2008 - 2017).
Toulon University
- Since 2019 Team leader of RCT, the RoboCup team qualified for the robot World Cup since 2019.
Toulon University